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Preliminary Engineering Report for Sewer System Improvements

City of Carlin

December 2021

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EXECUTIVE SUMMARY

This Preliminary Engineering Report (PER) has been prepared for the City of Carlin (City) to address system deficiencies within the City's sanitary sewer (sewer) utility. This PER describes the existing sewer system and its deficiencies and makes recommendations for improvements. The PER will be used by the City as a Master Plan or Capital Improvement Plan (CIP) for the sewer utility. The projects presented in Section 4 of this report include only improvements associated with the City's existing infrastructure. All improvements necessary to serve future growth will be funded by development funds, and not grant or loan funding.

The areas of concern in the sewer system generally include aged collection mains, leakage from pipes and treatment ponds, and aging lift station equipment. At this time, the City is considering improvements to the collection system and lift stations. The projects proposed in this PER include replacement of the Oak Street Lift Station and replacement of sewer collection lines to be identified during a Sewer System Evaluation Survey.

The PER is required by the United States Department of Agriculture (USDA), Rural Development (RD) as a precursor to obtaining grants or loans from their agency as well as the State of Nevada. This PER follows the general guidelines outlined in the USDA Rural Utility Service (RUS) Bulletin 1780-2, "Preliminary Engineering Reports for the Water and Waste Disposal Program".



1.0 PROJECT PLANNING

1.1 GENERAL INFORMATION

The City of Carlin is located on the western border of Elko County, Nevada. The Humboldt River flows on the south end of town. Two of the Humboldt's tributaries, Maggie and Susie Creek, run through the City of Carlin. Natural boundaries include Pine Mountain to the south, Mary's Mountain to the west, and Grindstone Mountain to the east. A location map is shown in Figure 1. A United States Geological Survey (USGS) map is provided in Figure 2.

With the western expansion of the United States, a small military camp was established in what is now southwestern Elko County when William Passmore Carlin was stationed there in 1858 under the direction of Colonel Albert Sidney Johnston during the Mormon War. The area did not see much additional development until approximately 1868 when Chinese railroad workers had been sent ahead to the area by the Central Pacific Railroad supervisor to prepare the land. In keeping with their agricultural background, some planted vegetables near the Humboldt River; therefore, in the early days the site was called "Chinese Gardens". The Central Pacific reached the Chinese Gardens site in December of 1868 and was selected as the eastern terminus of Humboldt division of the Central Pacific Railroad. A town site was laid out to provide support to the railroad and named "Carlin" after William Passmore Carlin.

The population of Carlin in 1871 was approximately 800. Carlin had a post office and a library furnished by the railroad. By 1884, a roundhouse, machine shop, four stores, one hotel, two saloons, two restaurants, two blacksmith shops, one telegraph office, one express office, and one jail were establishments that comprised the town. By 1918, Carlin's population had dropped to 400 and there was little civic improvement. There were very few trees and few flowers or gardens. The few gardens and flowers that existed had to be watered by a bucket from private wells. By 1923 Carlin began to revitalize when electrical generation and distribution were provided in the town. The present water and sanitary sewer systems were installed in the 1930s under the Federal Works Project Administration with labor mostly by the residents of Carlin. In the early 1950s, steam engines began to be replaced by diesel engines which led to the piecemeal dismantling of the railroad support facilities. The railroad significantly reduced operations in Carlin by 1993.

As railroad operations reduced, mining activity began to increase in the early 1960s with Carlin Gold. Other gold mines were discovered in the area on what is now known as the Carlin Trend with significant mining efforts beginning in the late 1980's all the way through the present day.



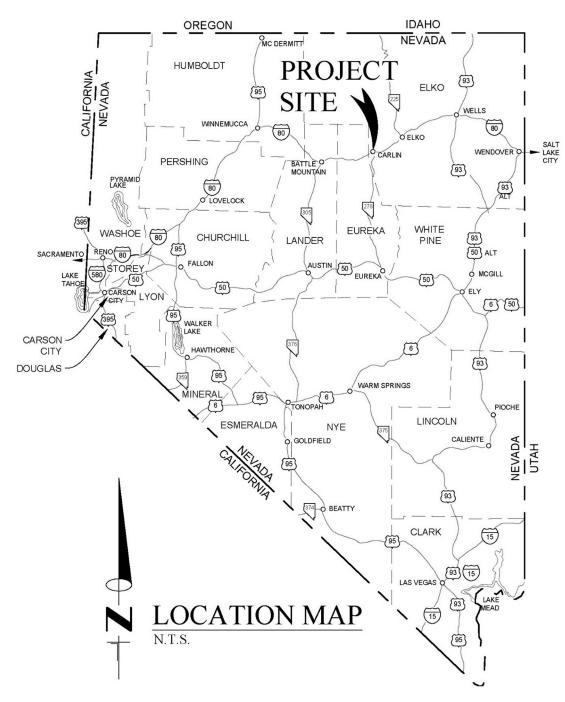


Figure 1: Vicinity Map

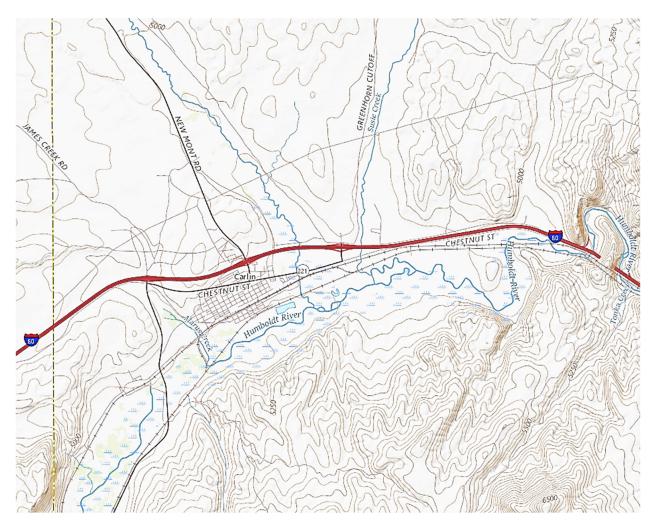


Figure 2: USGS Map

1.2 ENVIRONMENTAL RESOURCES

This section provides a brief overview of environmental resources in the area. Proposed improvements are largely or entirely within existing rights-of-way or on City-owned land, and minimal environmental impacts are anticipated. Attached in Appendix A is the preliminary environmental assessment for the project.

1.2.1 Geologic Setting

Geologic maps indicate the Carlin area mostly lies on alluvial deposits placed by the river and creek flows. The Quaternary period deposits consist of unconsolidated gravels, sand, silt, and clays. The water table in the project area can be found as shallow as 10-feet deep in some areas. The north hills of Carlin consist of tuffaceous sedimentary rocks of the late Eocene to late Miocene period. The City of Carlin lies in a seismic design category C. Known fault lines have been mapped around the Carlin area with the nearest fault at approximately two miles southeast of the City. Refer to Appendix A for Geologic and Fault Maps.

1.2.2 Water Quality

There are no known impacts to water quality in or around the project area as a result of construction activities. Placement of stormwater best management practices (BMPs) during construction will minimize storm water pollution. The Nevada Division of Environmental Protection (NDEP) may require a storm water permit depending on the area of land disturbed.



1.2.3 Climate

The average annual precipitation for the area is 12.09 inches. Temperatures in the area are characterized by large diurnal temperature variations that average 20 to 30 degrees. The average annual high and low temperatures are 57 degrees and 37 degrees Fahrenheit, respectively. Typically, temperature extremes can be in the negatives during the winter and in the just above 100-degrees during the summer. The average growing season is 115 days per year. Table 1 lists the average rainfall and average temperature by month.

Month	Average Rainfall (inches)	Average Temperature (Max/Min) °F
January	1.13	34.4/19.6
February	0.95	38.3/22.6
March	1.23	44.5/26.5
April	1.09	51.6/31.3
May	1.26	62.0/39.9
June	1.10	72.7/49.1
July	0.41	83.1/58.2
August	0.46	82.8/58.2
September	0.96	72.1/48.1
October	0.94	59.2/38.0
November	1.13	43.3/27.1
December	1.43	34.9/19.7
Annual Totals	12.09	56.6/36.5

Table 1: Average Rainfall and Temperature

Data from Desert Research Institute for Carlin Newmont Mine

1.2.4 General Land Use

Land in the City service boundary includes residential, commercial, light industrial, agricultural and public uses. The rural/agricultural residents on the south end of town are served by City water but are too low to be served by the gravity sanitary sewer system and must use septic systems. The City limits extend out into undeveloped sections of land that are currently not zoned. Most of the undeveloped area within the City limits totals approximately 9 square miles. Approximately 2 square miles is well-developed.

1.2.5 Floodplains

The flood zones for Carlin have been mapped by the Federal Emergency Management Agency (FEMA) and have been designated by the following panel numbers: 32007C5984E, 32007C5985E, 32007C6001E, 32007C6002E, 32007C6003E, and 32007C6004E. Areas immediately adjacent to the Humboldt River and tributary creeks are in Zone A, AE, and X. Most developed portions of the City lie outside the flood zones. Some underground water mains are in flood zones. For reference, the following flood hazard zone designations are provided:

Zone AE and A1-A30: Zones AE and A1-A30 are the flood insurance rate zones corresponding to the 100-year floodplains, determined by detailed methods in the Flood Insurance Study. In most instances, base flood elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.



Zones B, C, and X: Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile or areas protected from the 100-year flood by levees. No base flood elevations or depths are shown within this zone.

The FEMA FIRM maps for the Carlin area were issued in September 2013. The FEMA designated flood zone impacts the south side of the City as shown in panels 32007C6003E and 32007C6004E. The flood zone associated with Mary's Creek impacts the west side of town including the water spring collection system as designated in panel 32007C5984E.

1.2.6 Flooding History

Historically, the Humboldt River flooding typically occurs during the winter months. Winter flooding is generally caused by heavy rains on top of extensive amounts of snow.

There are two significant storm events recorded in the Carlin area. The first occurred in February of 1910, the largest flood of record for the entire Humboldt River and its associated tributaries. The Humboldt River crested at 15,000 cfs and both Maggie and Susie Creeks flooded. The gauged depth of the Humboldt River is 17 feet southwest of Carlin. Many roads, bridges, and railways in the region were ruined. Another occurred in February of 1962. Maggie Creek was gauged at 2,440 cfs and portions of railyards and lower residential areas flooded. During this event, the Humboldt River gauge southwest of Carlin measured a depth of 9.28 feet. In May 1984 the Humboldt River gauge measured the depth of the flooding event at 10.2 feet. In February of 2017, the depth of the flood event measured at 9.7 feet. Observations of this recent event in 2017 indicated that the river surface reached the base of the southside of the wastewater treatment facility.

1.2.7 Transportation

Water mains that need replacement are generally in existing street rights-of-way. Traffic control devices will be necessary to route traffic around construction zones during main replacements. Minor traffic delays can be expected during construction. State Route 766, which supports several mine sites, is the only significant highway that could be impacted by construction zones for utilities. Other Nevada Department of Transportation (NDOT) roads that contain City water and sanitary sewer mains include Interstate Highway 80 (I-80) and State Route 221 (Chestnut St.). Existing and future utilities that cross I-80 are completed by boring under the freeway so that traffic is not impacted.

1.2.8 Noise

Typical construction noise should be anticipated. Construction will take place only during normal working hours.

1.2.9 Environmental Resources

Table 2 presents a list of environmental resources present in the project area.



Table 2: Environmental Resources

Resource	Type of Information	Comments
General Land Use	Zoning, land use classifications	Refer to subsections listed above.
Important Farmland, Prime Rangeland and Forest Land	Soil surveys	Does not apply. No impact is anticipated.
Formally Classified Lands	Monuments, landmarks, wild and scenic rivers, wilderness areas, state of national parks, reservations, recreation areas	No former classified lands to impact.
Floodplains	Flood insurance maps, soil surveys	Refer to subsections listed above.
Wetlands	Soil surveys, National Wetland Inventory Maps, and Section 404 issues	No wetlands are located within the project area.
Cultural Resources	Historical and archaeological sites, visually sensitive areas.	Refer to subsections listed above.
Biological Resources	Threatened and endangered species, critical habitats, species of special concern	Refer to subsections listed above.
Water Quality	Discharge Permits, Water Appropriation Permits, Sole Source Aquifers	Refer to subsections listed above.
Coastal Resources	Coastal barrier resource maps, coastal zone management planning documents	Does not apply.
Socio-Economic/Environmental Justice	Economic data, location of minority and low-income populations.	No impact is anticipated.
Air Quality	State Implementation Plan	No impact is anticipated.
Transportation	Airports, highway safety, navigation hazards	Refer to subsections listed above.
Noise	Noise levels and restrictions	Refer to subsections listed above.
Hazardous Material and Waste	Bureau of Waste Management	No materials are known to exist.



1.3 POPULATION TRENDS

1.3.1 Base Population

According to the 2019 U.S. Census, there are 2,025 people living in the City. The average household size is 2.66 persons. The 2019 Census lists the total housing units at 994 with 700 of those homes being occupied. The U.S. Census and the Nevada State Demographer do not provide unique population estimates for the City. This report will use the City's population values listed in the Census as the population of the City. More information can be found in Appendix A.

1.3.2 Historical Growth and Future Growth Rate

The Nevada State Demographer has published historical population estimates for the City from 2000 through 2020. According to the Nevada State Demographers Population Estimates of Nevada Counties, Cities, and Towns from 2000 to 2020, the City's population has fluctuated resulting in a net increase of 12 percent. These values are presented in Table 3 and plotted in Figure 3.

Table 3: Population Estimates July 2000 to July 2020

Year	City of Carlin Population	Percent Change
2000	2,395	
2001	2,215	-7.5%
2002	2,074	-6.4%
2003	2,045	-1.4%
2004	2,240	9.6%
2005	2,261	1.0%
2006	2,281	0.9%
2007	2,295	0.6%
2008	2,322	1.2%
2009	2,345	1.0%
2010	2,370	1.1%
2011	2,376	0.3%
2012	2,376	0.0%
2013	2,851	20.0%
2014	2,731	-4.2%
2015	2,727	-0.1%
2016	2,684	-1.6%
2017	2,617	-2.5%
2018	2,613	-0.2%
2019	2,663	1.9%
2020	2,674	0.4%

From Nevada State Demographer, see data in Appendix A

Population estimates are available for Elko County for the 20-year planning period of 2018 through 2038 and have been used to project the future populations. The City population has been estimated to grow at the same rate as Elko County. Population projections are illustrated in Figure 3.



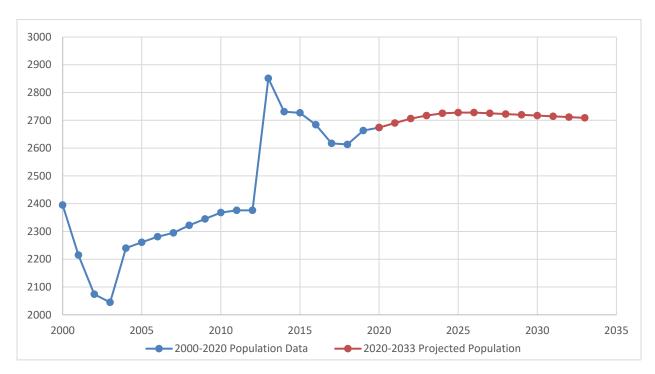


Figure 3: Historical and Future Population Trend

1.3.3 Median Household Income

Per the 2019 American Community Survey 5-Year Estimate, the median household income (MHI) for the City of Carlin is \$78,929. Per the same source, the State of Nevada MHI is \$60,365. The ratio of the City's current MHI to the State MHI does not classify the community as disadvantaged or low-income which limits some funding opportunities for the City. The City can conduct an independent income survey to evaluate whether or not the \$78,929 is accurate and representative of its community.

1.4 COMMUNITY ENGAGEMENT

The Carlin City Council meets on the second and fourth Wednesday of every month. The City engages the public for comment on projects that impact the City. The discussions at the council meetings on projects cover items ranging from benefits to the community, construction impacts, finances, and public input. The city manager and public works director are normally present to receive public and council input on projects and to direct the project engineer.

City of Carlin residents and businesses have had the opportunity to discuss the PER and proposed improvement projects at three separate City Council meetings. The first was on February 22, 2017, when the contract was approved to commence work on the water and sewer system PERs in addition to a road master plan. The second meeting was on February 13th, 2019, when the council acted on a loan with USDA for the wastewater system, although the overall improvement needs of the City were discussed. Most recently, Farr West Engineering presented information to the council and public regarding the two highest priority improvement projects determined by this PER with a specific focus on future rate impacts as a result of these projects. This meeting was held on November 13, 2019 and included attendance from NDEP's Office of Financial Assistance to provide guidance on future funding programs and requirements. The sewer system projects discussed were Sewer System Evaluation Survey, Basement Intrusion and Infiltration Pumping Study, Monitoring Well Installation, Oak Street Lift Station, and Replacement of 1930's Collection System, which are described in detail throughout this document. The City Council and residents understand the need for these projects and made specific action at the meeting to pursue funding



and begin the initial phases of enterprise fund creation for both the water and sewer systems. Approved minutes for each of these meetings can be found on the City's website.



2.0 EXISTING FACILITIES – SEWER SYSTEM

2.1 OVERVIEW OF EXISTING FACILITIES

The public sewer system for the City of Carlin is owned and operated by the City and serves approximately 800 connections. The system has two primary functions: collection, and treatment; which can be further subdivided into the following components: lift stations, collection pipes, manholes, treatment facility, and effluent management. The City's first wastewater piping system was installed in the 1930s, a treatment facility that dates back to the 1960s and lift stations that were originally installed in the 1970s. In this Section, each component will be evaluated in terms of condition, compliance, and capacity with an overall evaluation ranking (good, fair, or deficient) as presented in Table 4.

Table 4: Condition of Existing Facilities

System Component	Condition	
Collection Pipes	Deficient	
Concetion 1 ipes	(Unknown Materials, Infiltration/Inflow)	
Manholes	Deficient	
ivialinoles	(Infiltration/Inflow)	
Lift Stations	Deficient	
Lift Stations	(Oak Street Lift Station)	
	Fair	
Treatment System	(Maintenance Needed, Future Compliance Issues Possible)	
System Operations and Control	Good	
	Fair	
Management	(Asset Inventory Needed, Financial Condition Unknown)	

The key problems identified in this Section are:

- a. Aging collection system pipes with unknown pipe material and condition throughout sewer system;
- b. Unknown extent of I/I problems (e.g., location, volume);
- c. Oak Street Lift Station approaching end of useful life;
- d. Poor monitoring well configuration for treatment monitoring; and
- e. Wastewater treatment plant compliance concerns (i.e., treatment pond liner, sludge removal).

Some of these issues can be addressed or minimalized with studies or improvements which have lower costs than the projects presented in Section 4 of this PER. It is recommended that the City pursue funding these items internally prior to or in parallel with the proposed project presented in this PER. These items are listed in more detail below.

Sewer System Evaluation Survey

It is recommended a Sewer System Evaluation Survey (SSES) be conducted. Conducting an SSES will provide information on the existing system including areas of infiltration and inflow (I/I), pipe materials and diameters, and pipeline deficiencies such as structurally damaged pipe sections and faulty joints. These items are accomplished by the Closed-Circuit Television (CCTV) inspection portion of the SSES in which



a robotic camera is used to inspect the whole collection system in addition to a NAASCO pipeline assessment and certification program (PACP) and a manhole assessment and certification program (MACP) for all assets inspected. The SSES can also reveal debris, grease, and other blockages that limit capacity which can be cleaned by water jetting. Other available components of an SSES may include groundwater flow isolation to pinpoint sections of groundwater intrusion conducted during hours of low residential use (12 a.m. – 6 a.m.), smoke testing to identify other inflow sources, and non-toxic dye water flooding used in conjunction with CCTV to identify defects and I/I sources. The SSES is estimated to cost approximately \$225,000. The final deliverables will be a detailed report of the system, an inventory of the existing system, and a CCTV video for later review. This study will also be extremely valuable for scoping out Alternatives as presented in Section 4.0.

Inflow and Infiltration Study

I/I is believed to be a significant contributor to system sewer flows, specifically impacting the Oak St. Lift Station and the Wastewater Treatment Plant (WWTP). The I/I study should follow the SSES and should include the following: a 4 to 8-week flow monitoring study during the rainiest month(s) of the year, engineering analysis to determine baseline sewer flows, and rainfall dependent I/I contributions, development of a 25-yr. storm hyetograph to add to the hydraulic model, determination of infiltration flow volumes, and a basement sump pump survey to determine the number of homes that pump stormwater into the sewer system. The entire I/I study is expected to cost between \$50,000 and \$75,000¹.

Monitoring Wells

The most recent compliance inspection by the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control (BWPC) stated that the distance of the existing monitoring wells exceeded the current regulation and recommended that new wells be installed with a future permit renewal. Additionally, the inspection report stated that the wells could not be used to determine the performance of the existing clay liner because of their distance from the wastewater ponds. Even though these wells are not currently being required from the BWPC, the addition of these wells does provide a potential data source that could reduce the scope of future improvement projects at the WWTP. For this reason, Farr West recommends that the City pursue their construction as soon as the sewer enterprise fund can afford them. The estimated cost for two 25-foot deep, 4-inch monitoring wells is estimated to be approximately \$90,000.

In summary, the deficiencies or issues at the WWTP have been determined to be:

- a. maintenance issues (e.g., sludge survey and removal) which the City should pursue separately from the improvements presented in this PER, or
- b. significantly impacted from I/I rates (e.g., seepage properties of clay liner) and additional study should be completed before an appropriate project scope can be developed.

This PER has selected the collection system deficiencies as the highest priority for the City and the project Alternatives presented in Section 4 address these deficiencies.

¹ Subcontractor fees for flow monitoring services is typically based on the duration of the study and is the primary reason for the variability in costs.



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2.2 SYSTEM CHARACTERISTICS - SEWER FLOWS

Average day and peak hourly sewer flow rates can be difficult to determine without representative flow monitoring devices or methods upstream of the lift station and/or treatment facilities. The City currently has a meter installed downstream of the Oak St. Lift Station which measures wastewater flows into the WWTP and one meter on the effluent pump station which measures flows to the storage reservoir or to the irrigation fields. Flow volumes for influent, effluent to storage, and effluent to RIBs are required to be metered continuously while the effluent to irrigation is required to be metered or calculated during irrigation activities. At times inaccurate data is recorded due to human error, and in part, due to the inaccuracies of the aged Polysonics flow meter at the Oak St. Lift Station that needs replacement.

A review of sewer flow data provided by the City results in an average annual daily flow of 0.382 MGD and an average day of the max month (ADMM) flow of 0.880 MGD. Comparing these annual values to wintertime water use data confirms that the collection system experiences significant inflow and infiltration (I/I). Table 5 provides an annual summary of the data provided to Farr West as part of this report.

Table 5: Sewer Flows and Water Use

	Oak St. Lift Station		Potable Water Production	
Period ⁱ	Avg. (MGD)	Max. (MGD)	Avg. (MGD)	Max. (MGD)
2011	0.378	0.570	0.347	0.689
Winter 2011 ⁱⁱ	0.360	0.510	0.212	0.249
2012	0.388	0.770	0.654	1.414
Winter 2012	0.403	0.640	0.289	0.339
2013	0.417	0.870	0.632	1.392
Winter 2013	0.390	0.820	0.342	0.420
2014	0.424	0.880	0.775	1.527
Winter 2014	0.438	0.730	0.552	1.351
2015	n/a	n/a	0.616	1.148
Winter 2015	n/a	n/a	0.415	0.671
2016	0.370	n/a	0.648	1.374
Winter 2016	0.400	n/a	0.353	0.398
2017	0.440	0.660	0.702	1.550
Winter 2017	0.388	0.443	0.477	0.607
2018	0.351	0.443	0.685	1.579
Winter 2018	0.439	0.492	0.349	0.400
2019	0.389	0.492	0.688	1.492
Winter 2019	0.328	0.388	0.394	0.539
2020	0.281	0.350	0.706	1.381
Winter 2020	0.298	0.331	0.462	0.546
Annual	0.386	0.880	0.645	1.579
Winter	0.413	0.820	0.384	1.351

i – Complete annual data for all years listed in the table was not provided.

ii – Winter period is from Nov. 1st through April 30th.



2.2.1 Peaking Factors and I/I

Peaking factors are typically applied to average-day wastewater flows to account for peak hourly flows generated by the system during maximum water use periods in addition to I/I during storm events or periods of high groundwater. As seen in Table 6, typical peak hour/average day peaking factors for a primarily residential type of community range from 2.5 to 3.5. A peaking factor of 3.0 was used in modeling the sewer collection system for this PER.

Currently, more specific data² is required to accurately estimate base sewer flow and I/I rates. However, a comparison of the annual average daily flow rate to the average ADMM for the period of 2011 through 2020 indicates that just over 60 percent of the max daily flow could be generated by I/I. One contribution to I/I which requires more study is that of basement sump pumping contributions in the southern part of the City.

Annual Average Daily Flow	0.386	MGD
Average Day Max Monthly Flow	0.880	MGD
Average # of Services	820	
Flow per Connection ³	466	gpd/conn.
Average Population	2620	
Flow per Person ⁴	146	gpd
Estimated I/I	0.494	MGD
Volume of Max Daily Flow from I/I	64%	
Max Daily Peaking Factor	2.3	

Table 6: Sewer Flow Characteristics

2.2.2 **Influent/Effluent Strength Characteristics**

The discharge permit requires both influent and effluent sampling and testing. Influent samples are taken at the Oak Street Lift Station and effluent samples prior to reuse or disposal.

20



² Hourly flow meter data was not available for this PER.

³ For comparison, a community the size of Carlin typically has a rate of 200 to 250 gpd per connection.

⁴ For comparison, a community the size of Carlin, typically has a wastewater volume in the range of 80 to 100 gpd per person (gpdpp).

Oak St. Lift Station **WWTP Effluent** Max. Max. Period Total Nitrogen **BOD/CBOD** Max. pH **CBOD** Max. pH Max. TSS (mg/l)(S.U.) (mg/l)(S.U.) (mg/l)as N (mg/l) 2011 151 7.8 18 8.0 39 11 2012 161 7.8 29 8.0 48 14 2013 130 8.9 25 7.9 28 20 2014 111 7.7 27 8.0 42 17 2015 No Data No Data No Data No Data No Data No Data 82 7.9 24 15 8.6 48 2016 7.7 18 8.3 30 5 114 2017 9 7 126 7.6 10 2018 8.0 100 7.7 22 8.7 44 6 2019 128 7.6 33 8.3 54 16 2020 7.9 22.8 123 8.2 38.2 12.3 Average

Table 7: Wastewater Strength

2.3 COMPLIANCE

In general, the City of Carlin's sewer system has been compliant with State permit requirements. As further discussed in this Section, the BWPC does have recommendations for improvements to the Carlin WWTP.

2.3.1 Discharge Permit

The City currently operates under Permit Number NEV93001 issued by the BWPC. The permit allows the City a 30-day average influent volume of 0.50 million gallons per day (MGD) and a 0.90 MGD daily maximum. The permit had an expiration date of April 21, 2015; however, the permit is currently being reviewed by the BWPC for renewal and stays in effect until the renewal process is complete. A copy of the permit is included in Appendix C.

Flow volumes for influent, effluent to storage, and effluent to RIBs are required to be metered continuously while the effluent to irrigation is required to be metered or calculated during irrigation. The quarterly average effluent discharge limitations for Biochemical Oxygen Demand (BOD) is 30 milligrams per liter (mg/l) with a daily maximum of 45 mg/l. Total Suspended Solids have an effluent daily maximum of 90 mg/l and pH levels are to be maintained between 6.0-9.0 standard units.

The permit authorizes discharge from the secondary treatment pond to the storage reservoir and the east, central, and west irrigation fields during irrigation. Excess effluent which cannot be stored in the reservoir for irrigation use may be discharged to the east and west RIBs, east and west pasture irrigation areas, and/or the emergency irrigation south sand field.

Groundwater quality and level measurements are required for each of the five monitoring wells on a quarterly basis. Total nitrogen as N is required to be monitored and reported for each well and has a maximum concentration limitation of 10 mg/L. Nitrate as N, chlorides, and Total Dissolved Solids (TDS) are also required to be monitored and reported for each well.

2.3.2 Compliance Inspections

The most recent BWPC inspection of the City's wastewater collection and treatment system was conducted on July 29, 2015. A copy of the corresponding Compliance Evaluation Report is included in Appendix C. The report contains various conclusions and recommendations.



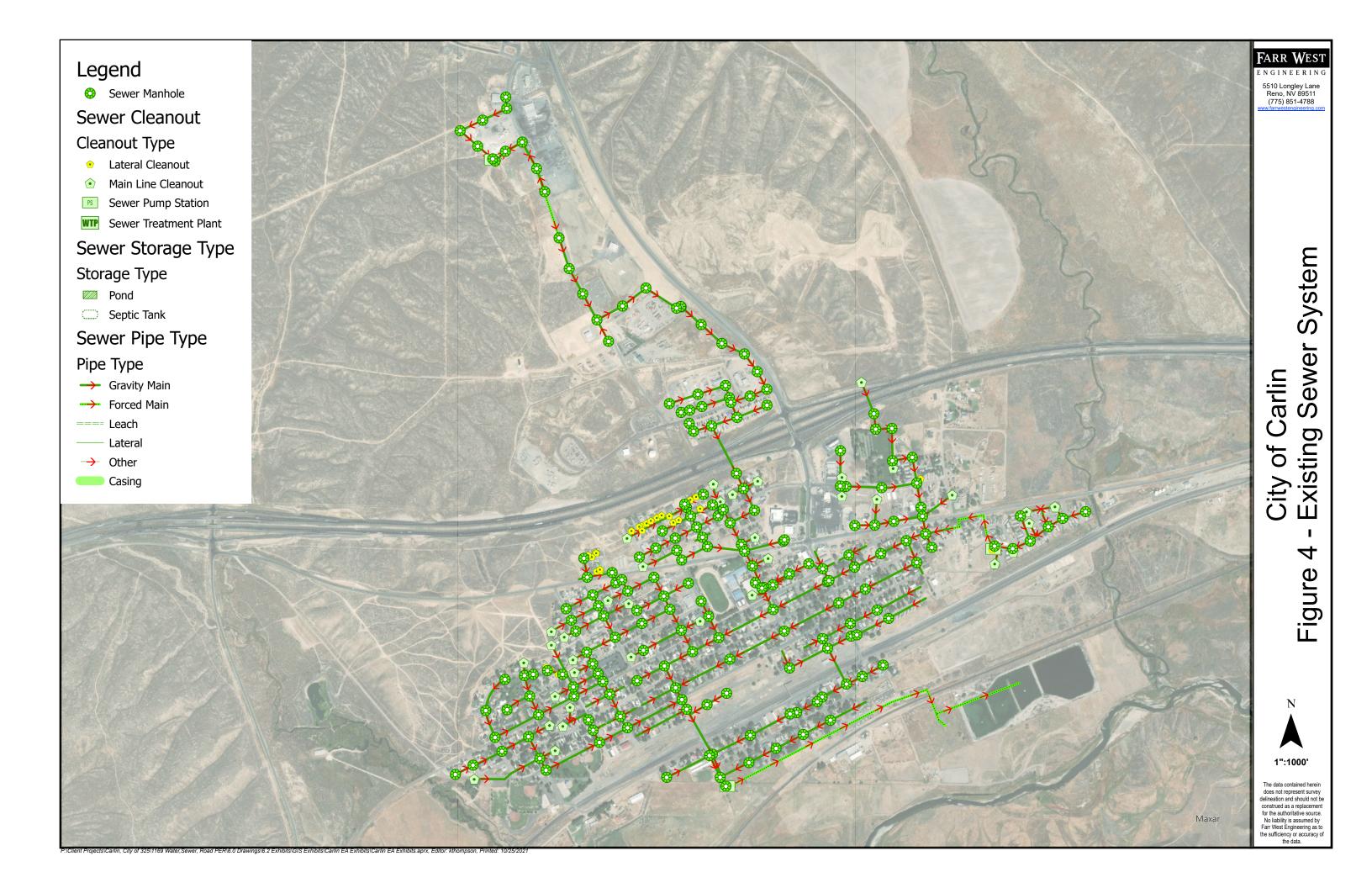
The NDEP water balance estimate using Carlin's metered data suggested that the pond seepage losses for the two clay-lined treatment ponds may be significantly higher than published State and National guidelines. This liner was originally installed in the 1960s and has likely been compromised from weathering, erosion, rodents, weed growth, etc. However, inaccuracy in the influent flow meter and failure to account for evaporation from the storage reservoir likely account for a significant volume of the seepage losses calculated by NDEP.

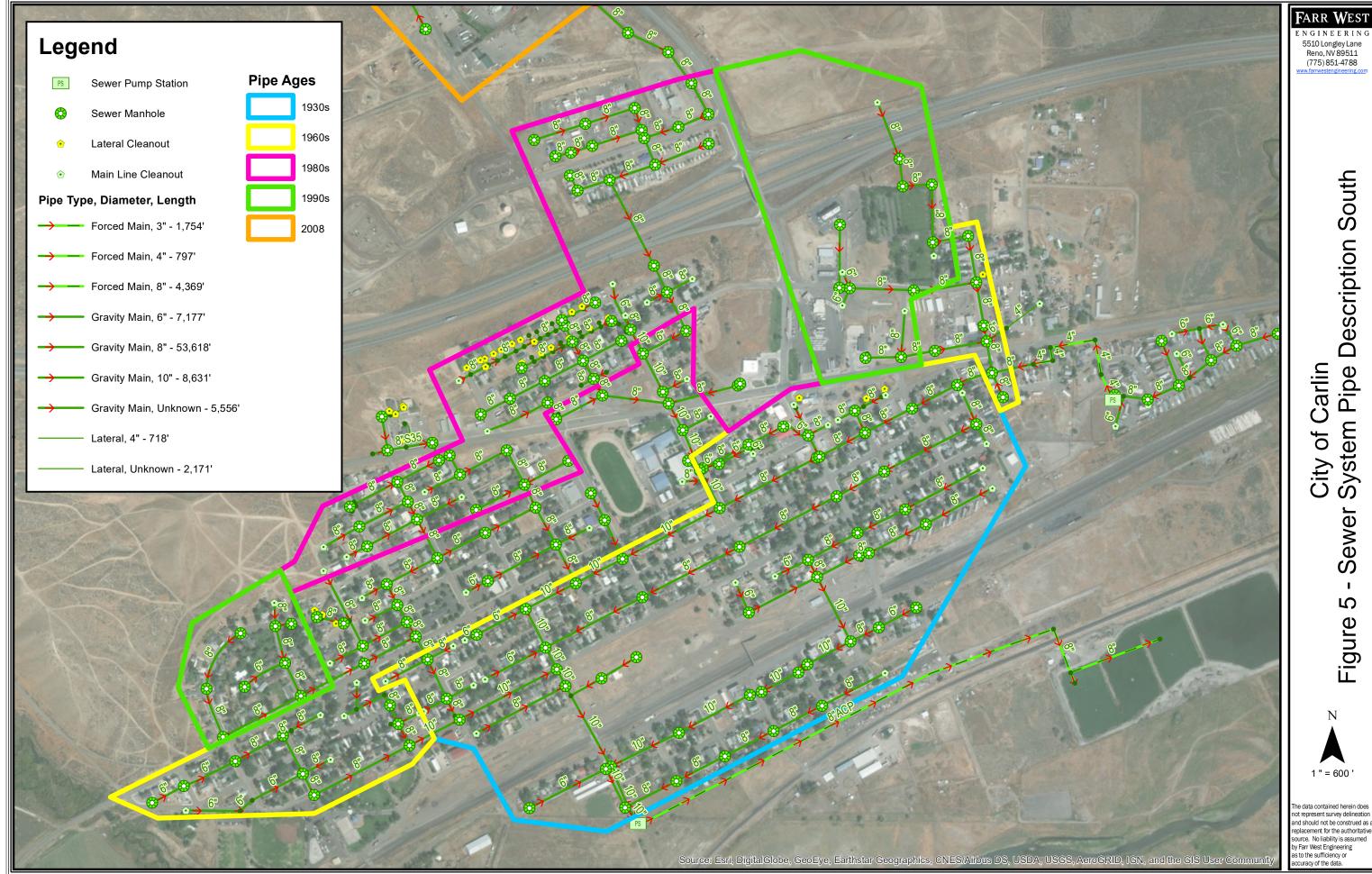
The inspection recommended that leak-detection wells for the two treatment ponds be considered to monitor potential losses from the two treatment ponds. The BWPC also suggested that wells MW-1 and MW-2 be reviewed for removal because the RIBs are rarely if ever, used. However, these two wells still play a role in monitoring for losses from the storage reservoir

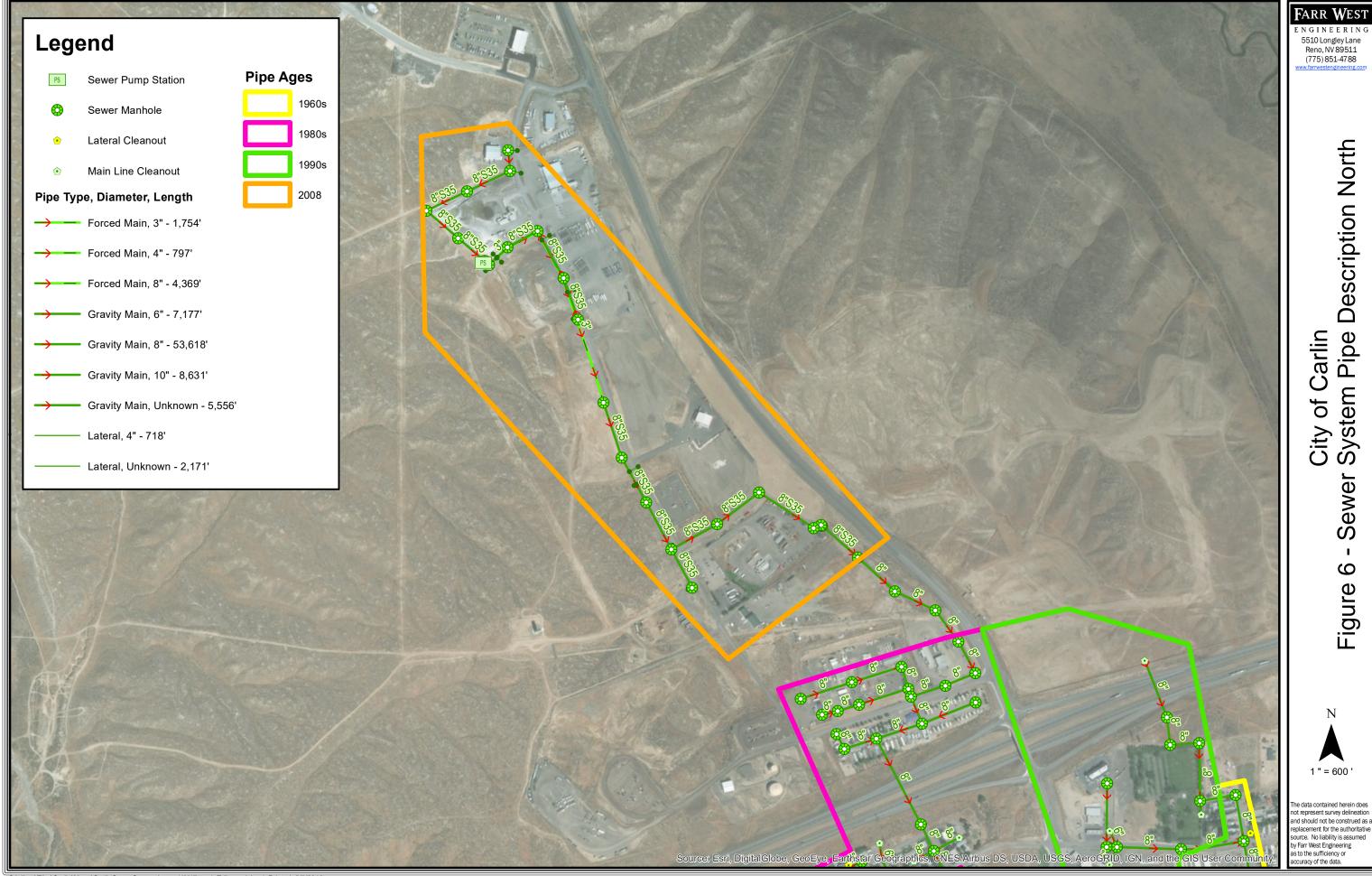
2.4 CONDITION OF EXISTING FACILITIES

The following subsections describe the condition of the City's sewer collection system, lift stations, WWTP, and effluent reuse facilities. Refer to Figures 4, 5, and 6 on the following pages for a map and other information on the existing system.









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2.4.1 Collection System

The collection system is made up of gravity collection pipes, manholes, lift stations, and force mains. This section will detail each component of the collection system and identify key shortcomings which may or may not require improvement.

Pipes

The collection pipes and force mains are made up of various diameters, material types, and lengths. The known pipe materials in the system are listed in Table 8 and are described in further detail in Appendix H. While the City has not performed a formal condition assessment⁵ of its collection system pipes, there is strong evidence that the majority of collection pipes are in some state of failure.

The City has reported tree root intrusion problems at various locations in the collection system, with the most recent occurring in the PVC pipe in late March 2018. There are two lengths of 8-inch main within the area of the original clay pipe portion of the system that requires regular root clearing. The first length runs in a roughly east-west orientation in the alleyway located between Cedar Street to the north and Hamilton Street to the south from 7th Street westward to 3rd Street. The second length also runs in a roughly east-west orientation located in the alleyway between Bush Street to the north and Cedar Street to the south and runs from 13th Street westward to 8th Street. The City has general concerns that the remainder of the distribution system consisting of clay pipe has increasing maintenance issues. This theory is supported by significant I/I as discussed in Section 2.2.1.

⁵ USDA has noted that the City performed a "smoke test" on the sewer system in conjunction with NV Rural Water. This data or report was not provided to Farr West prior to the preparation of this PER.



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Table 8: City of Carlin SS Pipe Material Types, Diameters, and Lengths

Year Installed	Pipe Material	Diameter (in)	Туре	Length (ft) ⁶
1930	Likely Clay	Unknown	Lateral	300
1930	Likely Clay	Unknown	Gravity Main	1,300
1930	Likely Clay	6	Gravity Main	2,900
1930	Likely Clay	8	Gravity Main	13,900
1930	Likely Clay	10	Gravity Main	7,100
1960	Likely ACP	Unknown	Lateral	160
1960	Likely ACP	Unknown	Gravity Main	1,000
1960	Likely ACP	6	Gravity Main	2,100
1960	Likely ACP	8	Force Main	1,100
1960	Likely ACP	8	Gravity Main	9,700
1960	ACP	8	Force Main	3,200
1960	Likely ACP	10	Gravity Main	1,300
1970	Unknown	4	Lateral	290
1970	Unknown	6	Gravity Main	170
1970	Unknown	8	Gravity Main	2,100
1980	Unknown	Unknown	Lateral	1,100
1980	Unknown	6	Gravity Main	300
1980	Unknown	8	Gravity Main	10,000
1980	Unknown	10	Gravity Main	190
1988	Unknown	8	Gravity Main	4,000
1990	Unknown	Unknown	Gravity Main	600
1990	Unknown	6	Gravity Main	700
1990	Unknown	8	Gravity Main	5,400
2008	Unknown	Unknown	Lateral	500
2008	Unknown	3	Force Main	1,800
2008	Unknown	8	Gravity Main	1,200
2008	PVC	8	Gravity Main	5,500
			TOTAL	77,910

Further detailed in Section 4.0, improvement projects which replace failing sections of collection pipes were generated based on the following factors:

⁶ Pipe lengths under 100-feet in length were omitted from this analysis.



Pipe Condition: The condition of the pipe is the most important category when assessing risk. Pipes in poor structural or operations and maintenance (O&M) condition have an adverse effect on the operation of the system. A video inspection and NAASCO PACP evaluation is required to confirm condition estimates based on pipe material, age, or repair history.

Pipe Material: Standard pipe materials have varied over the decades as industry preferences have changed. The different materials have ranging lifespans, points of failure, and reliabilities. For instance, pipes of different materials are constructed in different standard lengths, as shown below.

- Clay 4-Foot Lengths
- ACP 6-Foot Lengths
- PVC 20-Foot Lengths

The shorter lengths of Clay and ACP pipe result in more joints, which act as potential points of failure, leakage, and intrusion.

Pipe Age: The age of pipes is an important factor as pipe materials deteriorate over time. As the age of a pipe increases, no matter the material, the risk of failure due to the composition or weakening of the pipe increases. The increased age can result in structural and O&M failures. Standard manufacturer-claimed pipe material service lives are shown below. Clay and ACP were the materials of choice for sewer pipe installations until the 1970s. Thus, pipes of these materials are generally nearing the end of their useful lives:

- Clay 75 Years,
- ACP 75 Years, and
- PVC 80-100 Years.

Clay pipe can have a lifespan of 100 years or more if installed properly. However, experience with replacement projects has shown that clay pipes were historically not installed properly and have many points of failure. For these reasons, pipes made of clay and ACP should be prioritized for replacement.

Pipe Size: Consequences of failure are more severe for larger-diameter pipes. Thus, larger diameter pipes should be prioritized over smaller diameter pipes when determining the need for repairs or replacement.

Pipe Slope: The Recommended Standards for Wastewater Facilities (Standards) is the industry-accepted standard for specifying minimum pipe slopes for gravity wastewater collection facilities. For each pipe diameter the Standards identify the minimum acceptable slope to maintain sufficient velocity and prevent solids deposition within a given pipe. Pipes that do not meet the minimum recommended slope should be identified and considered for replacement.

Manholes

Another collection system component which can contribute significant volumes of I/I to system flows are manholes. The City currently has approximately 200 manholes in its collection system which range from 2-feet deep to over 11-feet deep and average 5.3-feet⁷. Manhole diameters are also currently unknown. A NAASCO MACP evaluation is required to evaluate the general condition of system manholes in order to make more accurate determinations on which manholes are contributing the greatest amount of infiltration to system flows.

⁷ Manhole depths have not been confirmed against survey data. Field survey collected manhole rim elevations but did not dip system manholes.



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2.4.2 Lift Stations

Oak Street Lift Station

The single lift station which conveys all sewer flows to the WWTP is located near the intersection of 4th and Oak Streets. The lift station has dry well housing pumps and controls and a wet well that receives influent from the entire City. The dry well extends more than 15 feet below grade and is accessible via a motorized lift. The two 15 horsepower (HP) lift station pumps are automated by a bubbler level sensor. The lift station pumps influent through eight-inch diameter ACP force main 3,400 feet from the lift station to the treatment ponds. The lift station was originally installed in 1972 with upgrades in 1989 including replacing the original 5 HP pump assemblies with 7.5 HP and 15 HP pump assemblies according to design documents. City operators indicate there are two 15 HP pumps that are approaching 30 years of age. The City also meters the effluent flow with a Polysonics flow meter in the force main downstream of the lift station. Additional information about the lift station is provided in Appendix D.

A PER, titled *Wastewater Pump Station and Screening System Project*, was prepared by Golder Associates for the replacement of this lift station as well as a new headworks system. The draft report was reviewed and provides the following information:

The existing influent screen is a manually cleaned, coarse bar screen installed in a 60-inch diameter manhole. The concrete top on the screen manhole is in poor condition. Operators must clean the bar screen daily, with additional cleaning needed on Monday's following weekend flows. As recent as the April 2018, the bar screens allowed wooden stakes to pass by and enter the pump station. This timed out the pump and required the removal of the debris. These screens are considered a significant shortcoming of the lift station.

From the screen manhole, the flow then enters the wet well from the south side of the screen manhole. There is an enclosed brick structure over the wet well. The wet well does not appear to be vented and the floor or top of the wet well is depressed about 18 inches. Due to the possibility of gas generation from septic sewage, this may be classified as a hazardous location in addition to being a confined space. This condition should be corrected by assuring positive venting of the wet well, removal of the structure and no longer using the room for maintenance storage (Golder). In summary, the current condition of the wet well indicates that the structure is nearing the end of its useful life.

The line from the wet well then enters the bubbler manhole where the pump suction lines connect to the pumps in the dry well. The suction lines enter the drywell about 17 feet below the ground surface. The lift station was originally installed in 1972 (with pump upgrades in 1989) and appears to be in good condition. Entry to the main drywell compartment is by an elevator through a steel access tube. Although it was not likely regulated when constructed, this area likely qualifies as a confined space but may not classify as a hazardous location as there is no exposure to raw sewage. Pumps run at a constant speed and are controlled by a bubbler level sensing system with the bubbler tube located in the bubbler manhole. The recent installation of a new bubbler level sensor has helped improve the daily operation of the pumps reducing pump run time according to operators.

The pump station facilities also include a 100-kilowatt stand-by generator and controls housed in an existing building separated from but adjacent to the wet well structure. A larger generator may be needed depending on the final electrical load for the new pumps and screening equipment (Golder).

The pump station discharges to an 8-inch asbestos cement force main, which is assumed to be a class 150 AC pipe. At this time, it is assumed that the force main is in serviceable condition. Using a practical peak design velocity of about 6.5 feet per second (ft/sec) for the 8-inch line, the capacity of the line is about 1,020 gpm. At the current pumping rate of between 700 and 750 gpm, the line velocity is 4.5 to 4.8 ft/sec or 69% to 74% of flow capacity (Golder).



Industrial Park Lift Station

Located north of the City west of State Route (SR) 277 and Griffen St., south of the 3-D Concrete parcel, this is the newest lift station and was constructed in 2011. The pump station pumps wastewater from the industrial park with two (2), 4 HP Flygt M 3085 pumps at a rate of approximately 50 gpm. Wastewater is pumped through a 3-inch force main for approximately 1,000 feet where enters an 8-inch gravity feed line flowing south toward and into the City collection system. The Industrial Park Lift Station has run at times near capacity with only a few parcels being served. It is believed that nearby truck wash facilities that overflow into the sewer could be the source of the extra flows. However, the extra flows need to be further investigated to verify the source.

East End Trailer Park Lift Station

A lift station located on the east side of the City services about 80 modular home spaces. The lift station is located northwest of Puett Drive and Maggie Court. This private sewer collection system, lift station, and 4-inch force main ties in to the City's collection system at a concrete box in the Chestnut/Huntley Alley near 15th Street. The private system is not a part of the maintenance responsibilities of the City.

2.4.3 Treatment System

Treatment Ponds

The City of Carlin treats wastewater using a municipal lagoon/pond system. This facility receives domestic sewage from the City's collection system through an 8-inch diameter ACP force main connected to the Oak Street Lift Station. Records indicate that the ponds total approximately 18.5 acres in area, have 6-inch-thick clay liners, and are contained by 8-foot-high earthen dikes built on top of existing ground. Although the ponds are near the Humboldt River, they are considered out of the floodplain due to the height of the dikes. The ponds have a volume of approximately 2.2 million gallons. The clay lined ponds allow the rapid growth of cattails and bulrush which is a constant maintenance issue for the City. The clay lining is several decades old and may be compromised, allowing infiltration of partially treated wastewater into the ground. Current metering indicates that the ponds operate at 100,000 GPD below the permitted capacity of 500,000 GPD.

Cell #1 is the primary pond with a surface area of 10 acres. Two earthen baffles installed in 1989 replaced the old panel baffles. The baffles increase the detention time of the wastewater. The facultative cell's aerobic upper zone is enhanced by aerators, two 7.5-HP aerators in the first baffle area, one 5-HP aerator in the second baffle area, and a final 5-HP aerator at the east end of the cell's third baffle area. Operating depth has been slowly decreasing as sludge builds in the bottoms of the pond. The last time sludge was removed was 1988 and the pond is likely due for sludge reduction and/or removal. At a minimum, a sludge survey should be performed to confirm sludge depths in the pond(s). Cell #1 is also classified as a low hazard dam, Permit ID NV10684.

Cell #2 is a polishing pond that receives flow from Cell #1 through a transfer structure located near the north end of the separation dike of the two cells. Cell #2 has a surface area of 8.5 acres and is located on the east side of Cell #1. Effluent from Cell #1 flows into a 10-inch diameter AC pipe approximately 3 feet below water surface. Head pressure forces the water up into a manhole with a standpipe inside. Water fills the manhole and overtops into the standpipe that is about 0.2 feet lower than Cell #1's water surface. The standpipe turns 90 degrees to horizontal below the manhole and discharges into Cell #2 about 2 feet above the pond bottom. No mechanical aeration is used in Cell #2, but with a large surface area, sufficient wind-driven aeration and surface mixing is present. Cell #2 is also a low hazard dam, Permit ID NV10711. Effluent from Cell #2 discharges into structures on the south end of the pond and is either stored in a reservoir, distributed as irrigation water or sometimes is disposed of in rapid infiltration basins (RIB).

On average the WWTP does meet permit limitations. Exceedances of the permitted limits include an average influent flow overage of 0.53 MGD in the month of June 2013; six maximum Carbonaceous



Biochemical Oxygen Demand (CBOD₅) overages (MCL= 45 mg/l) of 53 mg/l, 52 mg/l, 56 mg/l, 57 mg/l, 46 mg/l and 74 mg/l in the months of June 2011, October 2012, February 2013, April 2013, April 2014 and May 2014, respectively; and a maximum TSS overage of 102 mg/l in April of 2014.

Two conditions may explain these exceedances. First, significant sludge buildup in the pond cells reduces active volume and adds organic loading from anaerobic decomposition, contributing to the occasional high CBOD₅ levels. If this is a significant factor, then sludge should be reduced and/or removed from the ponds as a remedy. Second, high algae concentrations in the effluent caused by high temperatures in spring and summer months also may contribute to occasional high CBOD₅ and an abnormally high TSS concentration. A possible mitigation measure for algal bloom events if storage is available is to store the effluent until the algae concentration naturally reduces (Golder).

The discharge permit also requires the City to monitor groundwater at monitoring wells (MW) MW-1 through MW-5. Originally drilled in 1990, the existing monitoring wells around the treatment ponds are located at distances that are greater than current guidance allows (i.e. 250-foot maximum). MW-5 is the closest at 335 feet to the southeast of the polishing pond while MW-3 is approximately 1,840 feet westerly of the primary pond. MW-4 is located 680 feet southwest of the primary treatment pond. Refer to Appendix B for monitoring well details.

The existing monitoring wells are sampled quarterly for the monitoring of total dissolved solids, chlorides, nitrate, total nitrogen, depth to groundwater, and groundwater elevation. The discharge permit attached in Appendix C defines required actions if total nitrogen levels reach 7, 9, and 10 mg/l at any of these monitoring wells though levels have been historically below these limits, as recorded in Table 9.



Table 9: 2020 Monitoring Well Data

Quarter	Well ID	Total Nitrogen (mg/l)	Chlorides (mg/l)	TDS (mg/l)
1 st	MW-1	2.3	100	820
2 nd	MW-1	2.2	120	870
3 rd	MW-1	4.0	100	770
4 th	MW-1	1.4	98	780
1 st	MW-2	0.8	18	410
2 nd	MW-2	0.5	21	410
3 rd	MW-2	0.6	18	380
4 th	MW-2	1.2	15	370
1 st	MW-3	0.9	41	560
2^{nd}	MW-3	0.6	46	550
$3^{\rm rd}$	MW-3	< 0.2	45	560
4 th	MW-3	0.5	42	600
1 st	MW-4	3.2	130	800
2 nd	MW-4	2.8	150	850
3 rd	MW-4	5.1	110	770
4 th	MW-4	2.7	100	710
1 st	MW-5	8.3	81	830
2 nd	MW-5	5.5	140	1000
3 rd	MW-5	13	140	1300
4 th	MW-5	12	120	1100
Limits	N/A	10	M&R	M&R

Data Source: Silver State Labs 2020 and 2021 Analytical Report

Table 10: Monitoring Well Locations

	Described Location	Lat. (D M S)	Long. (D M S)
MW #1	West RIB	40° 42' 7.4" N	116° 6' 16.2" W
MW #2	East RIB	40° 42' 17.3" N	116° 5' 54.0" W
MW #3	West Irrigation Field	40° 42′ 31.3″ N	116° 6' 16.9" W
MW #4	Central Irrigation Field	40° 42' 35.6" N	116° 6' 0.3" W
MW #5	East Irrigation Field	40° 42' 46.3" N	116° 5' 35.0" W

Data Source: NDEP BWPC 2015 Inspection Report.

Coordinates: WGS84 datum.



Effluent Pump Station

Effluent from Cell #2 flows through a 10-inch pipe by gravity into a pump house that contains piping, pumps and controls and constitutes the effluent pump station. Two 20-HP pumps are connected to ductile iron pipes along with various fittings, valves, and a flow meter. The pumps can distribute water to nearby irrigation fields or to the water storage reservoir or infiltration. The pumps can also receive water from the storage reservoir and pump water to irrigation by operators manually opening or closing certain valves.

Effluent Irrigation

The treated effluent, or reuse water, from Cell #2 is used to irrigate fields during the growing season. Water is conveyed from the effluent pump station by 6-inch and 8-inch PVC pipe and distributed as needed around the irrigation fields. The effluent is then dispensed through risers at each field. See the "Carlin Sanitary Sewer System Overview" in Figure 4 for the geographical location of each of the elements discussed.

The three regularly used irrigation fields are named "east irrigation field", "central irrigation field", and "west irrigation field". A fourth irrigation field used during emergencies located directly south of the west irrigation field across the river channel is named "south sand field". In 2014 reuse averaged 60,000 GPD from April to August. New data from 2016 to 2017 has errors and cannot be relied upon.

Storage Reservoir and Rapid Infiltration Basins (RIB's)

During the non-irrigation season, the treated effluent is pumped through a 10" PVC pipe to a storage reservoir located south of the Humboldt River. Two RIBs adjacent to the reservoir are available to dispose of the treated effluent and are designated the West RIB and the East RIB. The RIBs are generally inactive but are reserved for disposal when irrigation fields are unavailable, and the storage reservoir is full. See the "Carlin Sanitary Sewer System Overview" in Figure 4 for the geographical presentation of each of the elements discussed. In 2014 flows to storage averaged 190,000 GPD. Recent data has a wide range of inconsistencies from an average 334 GPD to 179,000 GPD and cannot be relied upon. The reservoir and RIBs are considered low-hazard dams.

2.5 EXITING FINANCIAL STATUS

Since July of 2020, the City has maintained a sewer system enterprise fund to track the financial activities of the sewer system. However, the City bills its residents a user rate of \$78.75 on a monthly basis which includes funds for the water system, sewer system, landfill, and streetlights. Of this amount, \$29.85 is estimated as the amount dedicated to the sewer system. For sewer service, Carlin bills across three different customer classes. During 2020, there were 781 sewer customers: 755 residential, and 26 commercial customers. Sewer system billing rates and 2020 customer counts are summarized in Table 11.

Sewer Customer Type	Total Customers	Rate
Sewer – Residential & Commercial	781	\$ 29.85
Sewer Flat Rate RV Parks	1	\$ 91.00
Sewer RV	25	\$ 17.23

Table 11: 2020 Customers and Sewer Billing Rates

Because the sewer system has only operated as an enterprise fund for one year, comprehensive financial data does not exist. Looking over certified audits from fiscal year (FY) 2009 through 2020 it appears that sewer system revenues have not been sufficient to cover annual expenses over that period. One item to note is that the expense total listed in Table 12 includes depreciation which averaged \$104,000 annually over the five-year study period.



Table 12: Estimated Sewer System Revenues and Expenses

Year	Revenues	Expenses
2009	\$281,888	\$328,171
2010	\$290,397	\$398,893
2011	\$303,877	\$396,415
2012	\$315,806	\$419,899
2013	\$339,871	\$415,960
2014	\$342,026	\$421,765
2015	\$347,071	\$493,633
2016	\$340,000	\$476,693
2017	\$325,472	\$585,814
2018	\$325,128	\$436,286
2019	\$323,948	\$446,535
2020	\$331,517	\$419,150
2016-20 Average	\$329,213	\$472,896

The City is actively pursuing improvements to how they manage their water and sewer systems from a financial standpoint. A formal rate study for all their utility services is near complete and includes considerations for the recommendations of this PER. The user rates proposed in the rate study will ensure that each system brings in sufficient annual revenues to cover annual expenses in addition to building and maintain adequate reserve balances. It is expected that new user rates will be in place by calendar year 2022. Additional financial information is provided in Appendix G.



3.0 NEED FOR PROJECT

3.1 HEALTH, SANITATION, AND SECURITY

The most significant concern related to public health that the City sewer system presents is related to meeting discharge permit limits as specified by NDEP. Technically, the WWTP has exceeded discharge concentrations for CBOD (i.e., six occurrences) and TSS (i.e., one occurrence) in the past; although, there does not seem to be a chronic history of violating permit terms. As discussed in Section 2.0, there could be multiple factors that caused or influenced the violations, and the City should pursue activities that limit or reduce the variability of WWTP performance.

A second concern related to health is the viability of the clay liner coupled with the distance of the monitoring wells from the treatment ponds and their ability to adequately profile impacts to adjacent groundwater. This issue is complicated by the inability to provide an accurate water balance to support water losses due to percolation. Additionally, the monitoring wells were installed prior to the current requirement for the wells to be within 250-feet of treatment storage facilities (e.g. primary, treated effluent) so they are not reliable representative leak detection wells for the treatment ponds. The City should either install these wells in good faith or wait for them to be required as part of a discharge permit renewal. A new liner system should also be pursued if the ponds are found to be leaking and negatively impacting groundwater in the area.

The final concern is from a sanitary perspective and is related to the screen at the Oak St. Lift Station. These screens are cleaned manually on a daily basis and provide an environment where raw sewage debris could come into human contact. Additionally, the structures around the screen and wet well are in poor condition and make maintenance activities more difficult than they would be with a modern facility.

3.2 AGING INFRASTRUCTURE

Most of the concerns related to the City's sewer system are consistent with a system which has not been significantly improved in almost 30 years. The following is a summarized list of the aging infrastructure issues explained in greater detail in previous sections:

- Aging original section of collection system reported tree root intrusion. Recent tree root intrusion found in PVC pipe;
- Replacement of the Oak Street Lift Station, Smith and Loveless duplex wet well dry well sewage pump station including the wet well inlet screen and antiquated flow/totalizing meter;
- Inaccurate flow metering data recordation at the Oak Street Lift Station and treatment effluent pumping;
- I/I, believed to account for a significant percentage of sewage volume, cannot be accurately estimated;
- The approximate 43-year old clay liners of the treatment ponds will only continue to degrade allowing additional seepage; and
- Sludge has not been removed from the treatment ponds since 1988.

3.3 REASONABLE GROWTH

Upsizing infrastructure improvement projects to account for future growth is not a significant factor or component in the scope of the projects as laid out in this PER. The City experienced significant growth (approximately 2.9 percent exponential) from 2010 through 2015 as a result of mining industry expansion over the same period, and populations have remained steady at the 2015 value. Additionally, over the next ten years, the state demographer projects the population to increase slightly, before possibly plateauing in the subsequent 20 years.



However, an argument can be made for evaluating growth potential at the time of project design. Carlin is near the geographic center of one of the world's significant gold mining districts and in the past, the population has often spiked in correlation with the price of gold. Allowances should be made for an additional 125 connections over the next 20 years. The City has also assessed the future development potential of four areas based on the costs to extend City infrastructure into those areas. The four assessed sites are:

- Site 1 Industrial Park,
- Site 2 Tomera Ranch Road,
- Site 3 Carlin Crossing Phase 1, and
- Site 4 I-80 and State Route 278 Interchange.

A memo assessing the feasibility of each of the four sites is in Appendix F.



4.0 ALTERNATIVES CONSIDERED

Three project alternatives are compared below, including a No Action alternative. The previous sections have identified deficiencies in the sewer collection system that need to be addressed to continue to serve the community. Deficiencies include leaking collection pipes, tree root intrusion, aging infrastructure, and lack of accurate influent metering data. With the exception of the No Action Alternative, the sewer system improvement alternatives presented in this section resolve the deficiencies that have been identified.

4.1 ALTERNATIVE 1 – NO ACTION

4.1.1 Description

One option available to the City is to not pursue any improvements to the sewer collection systems or treatment facilities and respond to failures on an as-needed basis. The No Action alternative would not identify any sewer system improvement project on future capital improvement plans and would not set aside specific funding sources for the improvements.

4.1.2 Design Criteria

The design and construction of any improvements will be subject to the design policies of RUS and 7 CFR 1780.55. All improvements will conform to State of Nevada clean water standards and meet ASTM standards. Since the No Action alternative proposes no improvement to the sewer system, the previously stated design criteria will not apply to this alternative.

4.1.3 Environmental Impacts

More specifically, the alternatives will undergo an environmental impact analysis and will minimize impacts to the environment by being primarily constructed in previously disturbed areas. It is not anticipated that any alternative would have a unique, negative direct impact on the surrounding environment or land resources.

4.1.4 Land Requirements

Since the No Action alternative proposes no improvement to the sewer system, there will not be any land or right of way requirements for this alternative.

4.1.5 Potential Construction Problems

Since the No Action alternative proposes no improvement to the sewer system, there are not any construction problems anticipated for this alternative. However, it is reasonable to expect that emergency repairs of future infrastructure failures will result in more construction conflicts than projects which have undergone the standard engineering design process.

4.1.6 Sustainability Considerations

The City is frequently forced to perform emergency repairs or emergency maintenance activities to the sewer collection system and wastewater treatment facilities and anticipates more frequent and more significant failures in the future. Since these systems are already in a state of "failure" and since the No Action alternative proposes no improvement to the sewer system, this alternative would not improve system sustainability. Additionally, the pumps at the Oak Street Lift Station are near the end of their usable lift and under the No Action Alternative, these inefficient pumps would continue to be operated resulting in excessive energy consumption.

4.1.7 Cost Estimate

A class 5 cost estimate per the Association for the Advancement of Cost Engineering International (AACEI) is typically provided for all alternatives. By definition, class 5 estimates are based on conceptual designs and unit costs and have a level of accuracy of (-50% to +100%). More accurate cost estimates (i.e., class



3) will be prepared for the proposed project (Section 6.0) and will be updated during the design process for each phase of the project. All project cost estimates reflect materials and methods that comply with the American Iron and Steel requirements.

Since the No Action alternative proposes no improvement to the sewer system an opinion of probable costs for the improvements has not been prepared. However, it is estimated that future O&M costs will increase by \$40,000 per year to account for "spot" repairs of the collection system (including lift station) and treatment facility.

4.2 ALTERNATIVE 2 – REPLACE COLLECTION SYSTEM + LIFT STATION + WWTP PROJECTS

4.2.1 Description

This alternative includes replacing approximately 8 miles of the sewer collection system and replacing infrastructure at the Oak Street Lift Station. The project would also include more than 200,000 square feet of asphalt paving and replace sewer laterals for 803 current customers. In general, this project proposes to replace just over half of the existing sewer collection over an area of about 0.5 square miles. For this alternative, all sewer pipes would be installed via open-trench construction in previously disturbed areas. It is assumed that the City would pursue these improvements in phases for two primary reasons. First, the total costs of these improvements are expected to significantly exceed any capital reserves or annual user fee revenues so a funding plan will need to be developed over several years. And secondly, to confirm the condition and design capacity of existing infrastructure. For example, if the replacement of Priority 1 pipes reduce total system flows by 20 percent it is reasonable to expect that the design capacity of the Oak Street lift station replacement should also be reduced. This alternative consists of the following phases:

- Phase 1 Investigate existing pipes that were built in the 1930s with SSES. (e.g., sewer video inspection, inflow + infiltration analysis)
- Phase 2 Replace pipes that are in the highest priority group based on Phase 1 SSES investigation (10, 8, and 6-inch)
- Phase 3 Replace the Oak St. lift station and replace the 8" force main that runs to the WWTP.
- Phase 4 Remove sludge from the wastewater treatment ponds
- Phase 5 Install new monitoring wells at the wastewater treatment ponds.
- Phase 6 Investigate existing pipes built in the 1960s with SSES
- Phase 7 Replace pipes that are considered the highest priority group based on Phase 6 SSES investigation (10, 8, and 6-inch)
- Phase 8 Replace remaining problematic pipes in the system

4.2.2 Design Criteria

The design and construction of any improvements will be subject to the design policies of RUS and 7 CFR 1780.55. All improvements will conform to State of Nevada clean water standards and meet ASTM standards.

4.2.3 Environmental Impacts

The improvements being proposed by this alternative will undergo an environmental impact analysis and will attempt to minimize impacts to the environment by being primarily constructed in previously disturbed areas. This alternative is not anticipated to have any unique, negative, or direct impact on the surrounding environment or land resources. Also, SHPO consultation⁸ has been initiated, although has not been

⁸ SHPO consultation is not required for phases of the project which are not funded from federal sources and do not require ROW across federal lands.



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completed or resolved at the time of writing of this report. It is anticipated that the lead agency (e.g., USDA) will complete the SHPO consultation once a funding application is in place.

4.2.4 Land Requirements

Significant land acquisition or right of way (ROW) requirements are not anticipated for this alternative since the majority of construction will occur in City secured ROW. However, the replacement of existing service connections can result in the need to repair infrastructure on private property if the condition of the lateral is in a state of complete failure. It is expected that the City will negotiate access with private landowners on a case-by-case basis and ROW or access rights should not result in any additional expense or cost. Finally, jack and bore construction methods will be used to install sewer pipes across NDOT and Union Pacific ROW. Permission to bore under both ROWs will be required, which entails obtaining a permit(s).

4.2.5 Potential Construction Problems

Potential construction problems include poor records of underground infrastructure, existing asphalt paving and sidewalks that are in a failed state, and existing sewer mains and laterals which may be in poor condition at the proposed points of connection. Jack and bore construction methods will also be required at multiple locations to comply with encroachment permit terms and conditions. Another known issue is that construction in alleyways may cause access issues for residents and businesses. Additionally, working in tight quarters through the alleyways will require a vertical walled trench to be excavated. Trench wall shoring will be needed to minimize caving risks if the excavation will exceed OSHA standards.

4.2.6 Sustainability Considerations

This project would greatly improve system sustainability by replacing more than 50 percent of distribution mains with new pipe, reducing I/I, and appropriately sizing the lift station to actual sewer flows instead of conveying significant I/I flows. This reduction in I/I should also directly reduce energy costs associated with the Oak St. lift station.

4.2.7 Opinion of Probable Cost

A class 5 opinion of probable cost per AACEI is provided below in Table 13 for this alternative. By definition, class 5 estimates are based on conceptual designs and unit costs and have a level of accuracy of (-50% to +100%). More accurate cost estimates (i.e., class 3) will be prepared for the proposed project (Section 6.0) and will be updated during the design process for each phase of the project. All project cost estimates reflect materials and methods that comply with the American Iron and Steel requirements.



Item Quantity Unit **Unit Price** Total **Description** Investigate I/I + Identify Problem Areas LS \$ 200,000 200,000 1 1 \$ \$ 2 5,400 LF 120 648,000 6" PVC SDR-35 Pipe 3 29,100 LF \$ 130 \$ 3,783,000 8" PVC SDR-35 Pipe 8,700 EA \$ 1,305,000 4 10" PVC SDR-35 Pipe 150 5 \$ 94 EA 5,750 540,500 48" Sewer Manhole 700 \$ \$ 147,000 6 Jack & Bore LF 210 7 \$ \$ AC Pavement Patch 216,000 SF 5.20 1,123,200 8 Sewer Service Connection w/ Cleanout 500 EΑ \$ 3,700 \$ 1,850,000 \$ 2,500,000 9 30 HP Lift Station LS 2,500,000 \$ \$ 10 8" Force Main 4,400 LF 110 484,000 \$ \$ Wastewater Sludge Removal LS 2,000,000 2,000,000 11 \$ 25-ft Deep Monitoring Wells (4-inch casing) 2 EΑ \$ 12 47,050 94,100 \$ \$ 13 **CCTV Video Inspection** 1 LS 200,000 200,000 Miscellaneous (Mobilization, Traffic Control, 14 1 LS \$ 3,481,400 \$ 3,481,400 Sidewalk) Sub Total: 18,356,000 \$ Construction Contingency (25%): 4,589,000 Engineering & Inspection (25%): 4,169,000 PROJECT TOTAL: 27,114,000

Table 13: Opinion of Probable Cost – Alternative 2

Note: some values have been rounded to the nearest \$1,000

4.3 ALTERNATIVE 3 – REPLACE COLLECTION SYSTEM + LIFT STATION + WWTP PROJECTS (TRENCHLESS CONSTRUCTION)

4.3.1 Description

This project alternative proposes to replace system components in the same phases as alternative 2. However, this alternative would replace all failing sewer collection mains with a cured in place pipe (CIPP) inside of existing pipes as opposed to completely replacing all failing pipes with new materials. This method of construction has many benefits, including:

- reduced unit installation costs,
- smaller quantities of asphalt which needs to be replaced,
- pipe segments replaced with jointless, seamless pipes, and
- reduced traffic control costs.

Previously, it was believed that this method required a "host" pipeline that is without significant structural flaws or failures in order to install the flexible liner. However, Farr West has completed multiple, successful CIPP installations in pipelines in various stages of failure. Farr West is confident in recommending CIPP as a preferred method of construction for any pipeline which is not collapsed more than 30 percent, does not have significant "sagging" in the vertical alignment, or has penetrations which could compromise the structural stability of the liner. The first phase of this project includes an investigation which will confirm the condition of the existing pipeline and the quantity of pipe in the existing system which is in this problematic condition.



CIPP is still a viable construction method for existing systems with these conditions, although any problem area would be excavated and replaced with new, rigid pipe in order to eliminate the flaw. Open-trench construction methods would also be implemented if there is a need to re-align any section of the collection system. It should be noted that lined pipe can only be cleaned in the future with a water-jetting based device as opposed to mechanical cables or "snakes" that would damage the liner material.

This alternative does not propose to replace any sewer lateral piping or install any new cleanouts with the improvements.

4.3.2 Design Criteria

The design and construction of any improvements will be subject to the design policies of RUS and 7 CFR 1780.55. All improvements will conform to State of Nevada clean water standards and meet ASTM standards.

4.3.3 Environmental Impacts

The improvements being proposed by this alternative will undergo an environmental impact analysis and will attempt to minimize impacts to the environment by being primarily constructed in previously disturbed areas. This alternative is not anticipated to have any unique, negative, or direct impact on the surrounding environment or land resources. Additionally, it is reasonable to assume that this project alternative will have a reduced environmental impact as compared to alternative 2 since the amount of excavation required to complete the project will be greatly reduced. Finally, SHPO consultation has been initiated, although has not been completed or resolved at the time of writing of this report. It is anticipated that the lead agency (e.g., USDA) will complete the SHPO consultation once a funding application is in place.

4.3.4 Land Requirements

Significant land acquisition or right of way (ROW) requirements are not anticipated for this alternative since the majority of construction will occur in City secured ROW. However, the replacement of existing service connections can result in the need to repair infrastructure on private property if the condition of the lateral is in a state of complete failure. It is expected that the City will negotiate access with private landowners on a case-by-case basis and ROW or access rights should not result in any additional expense or cost. Finally, jack and bore construction methods will be used to install sewer pipes across NDOT and Union Pacific ROW. Permission to bore under both ROWs will be required, which entails obtaining a permit(s).

4.3.5 Potential Construction Problems

In addition to the potential construction problems listed for alternative 2, CIPP construction typically requires more extensive flow bypass pumping than open-trench construction and CIPP materials are typically not as readily available as PVC pipe and PVC fittings. One problem for alternative 2 which should be reduced under this alternative is the need for trench shoring for vertical walled trenches since the excavation of existing sewer lines will not be necessary.

Other potential construction problems include poor records of underground infrastructure, existing asphalt paving and sidewalks that are in a failed state, and existing sewer mains and laterals which may be in poor condition at the proposed points of connection. Jack and bore construction methods will also be required at multiple locations to comply with encroachment permit terms and conditions.

4.3.6 Sustainability Considerations

This project would greatly improve system sustainability by replacing more than 50 percent of distribution mains with essentially a new pipe, reducing I/I, and appropriately sizing the lift station to actual sewer flows instead of conveying significant I/I flows. This reduction in I/I should also directly reduce energy costs associated with the Oak St. lift station.



4.3.7 Opinion of Probable Cost

A class 5 opinion of probable cost AACEI is provided below in Table 14 for this alternative. By definition, class 5 estimates are based on conceptual designs and unit costs and have a level of accuracy of (-50% to +100%). More accurate cost estimates (i.e., class 3) will be prepared for the proposed project (Section 6.0) and will be updated during the design process for each phase of the project. All project cost estimates reflect materials and methods that comply with the American Iron and Steel requirements.

Table 14: Opinion of Probable Cost – Alternative 3

Item	Description	Quantity	Unit	Unit Price		Total
1	Investigate I/I + Identify Problem Areas	1	LS	\$ 200,000	\$	200,000
2	6" Cured In Place Pipe	5,400	LF	\$ 91	\$	493,000
3	8" Cured In Place Pipe	29,100	LF	\$ 99	\$	2,875,000
4	10" Cured In Place Pipe	8,700	EA	\$ 114	\$	992,000
5	48" Sewer Manhole	94	EA	\$ 5,750	\$	541,000
6	Jack & Bore	700	LF	\$ 210	\$	147,000
7	AC Pavement Patch	43,200	SF	\$ 5.20	\$	225,000
8	Sewer Service Connection (Top Hat Only)	500	EA	\$ 3,000	\$	1,500,000
9	30 HP Lift Station	1	LS	\$ 2,500,000	\$	2,500,000
10	8" Force Main (Open Trench)	4,400	LF	\$ 110	\$	484,000
11	Wastewater Sludge Removal	1	LS	\$ 2,000,000	\$	2,000,000
12	25-ft Deep Monitoring Wells (4-inch casing)	2	EA	\$ 47,050	\$	94,000
13	CCTV Video Inspection	1	LS	\$ 200,000	\$	200,000
14	Miscellaneous (Mobilization, Traffic Control, Sidewalk)	1	LS	\$ 2,438,960	\$	2,439,000
				Subtotal:	\$	14,690,000
Construction Contingency (25%):						3,670,000
Engineering & Inspection (25%):						3,250,000
			PROJ	ECT TOTAL:	\$	21,610,000

4.4 PROJECT ALTERNATIVES SUMMARY

Table 15 summarizes the construction costs, professional services costs, estimates of annual O&M cost reductions, and recommended annual depreciation figures for each alternative. It should be noted that estimating the impacts to O&M costs for pipeline projects is extremely uncertain as compared to estimating the cost of operation of a pump station or treatment facility. For this PER, Farr West used financial data to estimate the annual cost of services and supplies for the sewer system; and then developed a per foot cost of operation for sewer pipelines. This value was then multiplied by the length of pipe replaced by each project to generate the annual reduction in O&M cost for each alternative. However, it is estimated that the annual depreciation for each alternative will outpace any reduction in O&M costs, therefore eliminating any cost savings (during the useful lifespan of the improvements) to the customer as a result of infrastructure improvements.



Alternative	Hard Capital Cost	Soft Cost	Total Capital Cost	Annual Reduction in O&M Cost	Depreciation ¹	
1	\$ -	\$ -	\$ -	\$ 40,000	\$ -	
2	\$ 22,945,000	\$ 4,169,000	\$ 27,114,000	\$ (41,864)	\$ 542,000	
3	\$ 18,360,000	\$ 3,250,000	\$ 21,610,000	\$ (41,864)	\$ 432,000	

Table 15: Sewer System Project Alternative Cost Summary

5.0 SELECTION OF AN ALTERNATIVE

The selection of project alternatives to address the system deficiencies will be based on both life cycle costs and monetary factors. Except for Alternative 1, all project alternatives will improve sewer system operations. These efficiencies are represented by a reduction in future system O&M costs. Figure 7 shows the location of the project phases. As discussed in Section 1.4, the City's sewer customers have been informed of the potential for significant increases to user rates as a result of the proposed improvements. City staff has requested that the proposed improvements be sub-divided into smaller projects so that the City can phase the financial impacts of these improvements over time. The City is also funding some improvement projects (i.e., Investigate I/I + Identify problem areas) with capital reserves to avoid increases in user rates.

5.1 PROJECT ALTERNATIVE SELECTION

Table 16 summarizes the capital costs, the Net Present Value (NPV) of the change to sewer system O&M costs, and the total 3-yr. lifecycle cost for each selected alternative. Annual O&M costs are estimated relative to existing O&M costs and are expected to be reduced as a result of the proposed projects. Most proposed projects will have little direct impact on O&M costs, with most of the anticipated cost reduction coming through the reduction of labor and materials associated with emergency repairs.

Total Capital Annual Change O&M NPV 30 Alternative Cost in O&M Cost Yrs @ -0.9%ii **Total NPV** \$ 1 - No Action 40,000 \$ (1,418,832) (1,418,832)2 – Open Trench Construction \$27,114,300 \$ (25,670,000)(41,900)1,444,327 3 – Trenchless Construction \$21,610,000 \$ (41,900)\$ 1,444,327 (20,169,000)

Table 16: Alternatives Net Present Valueⁱ

5.2 NON-MONETARY FACTORS

Non-monetary factors considered for the project alternatives are ease of construction, environmental impacts, ability to be constructed in existing rights of way, disruptions to the public, and the criticality of the infrastructure to system reliability. Table 17 scores each alternative based on these factors. Each alternative is scored with a 4 (best), 3 (good), 2 (satisfactory), or 1 (bad).



^{1 –} depreciation period of 50 years.

i – All values shown are in 2021 dollars.

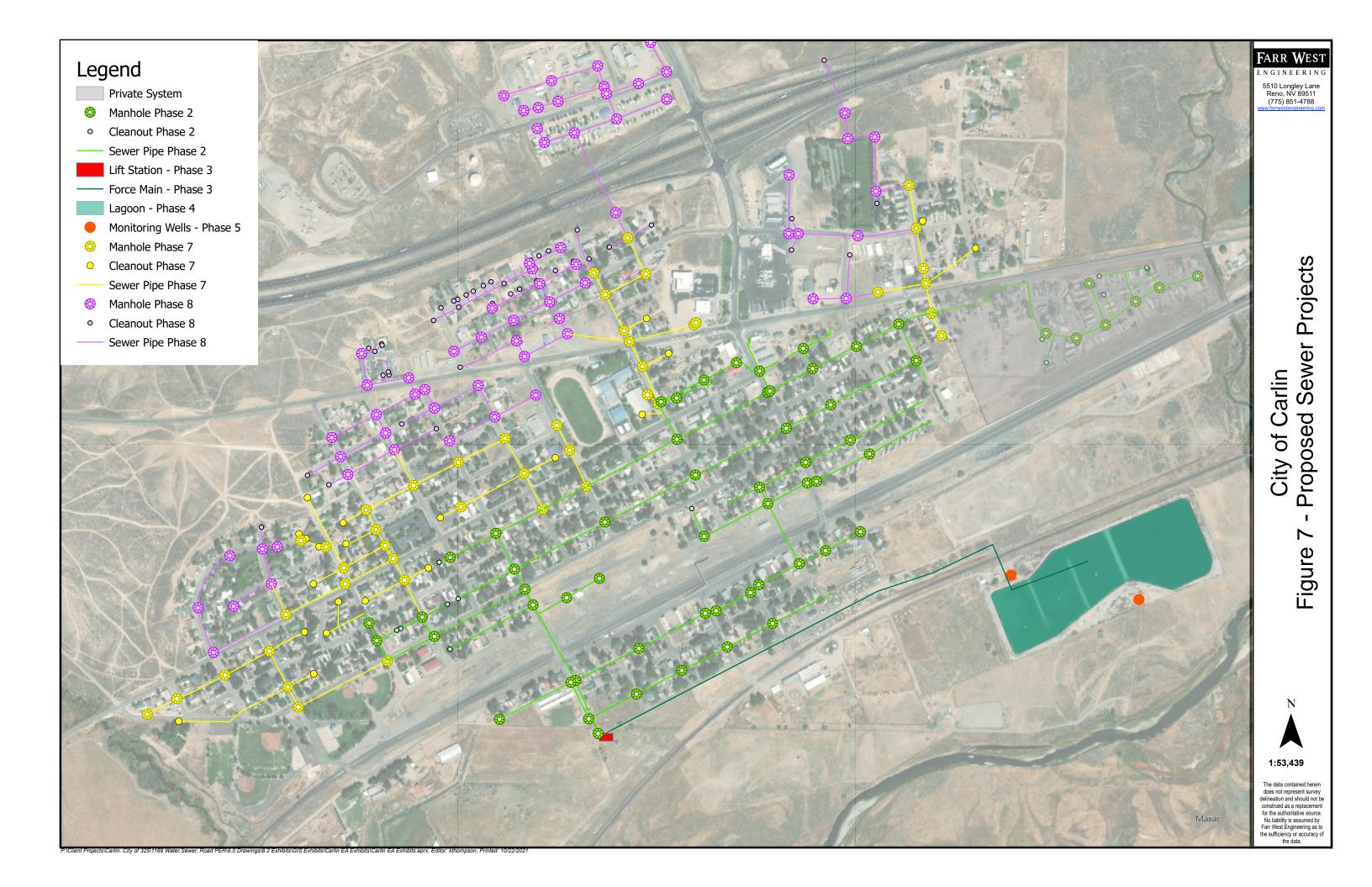
ii – Real Discount Rate of -0.9% based on inflation rate of 3.0% and projected interest earned rate of 2.1%.

Table 17: Non-Monetary Factor Scoring

Alternative	Ease of Construction	Environmental Impacts	Existing ROWs	Public Disruption	Criticality	Total Scoring
1	4	2	4	1	1	12
2	2	4	2	2	4	14
3	3	4	3	3	4	17

Both Alternatives 2 and 3 address the deficiencies identified at the Oak Street Lift Station, WWTP, and pipes throughout the Service Area. The City will rely on information gathered from the pipe evaluation and inspection project(s) to make an informed decision about which pipes are in the most need of replacement. Based on the non-monetary factors covered in Table 17, Alternative 3 is the most preferred alternative.





6.0 PROPOSED PROJECT

It is recommended that the proposed project be split into eight phases in order to provide a realistic balance between sewer system capital reserves, annual user fee revenues, and external financing sources. The eight phases, their anticipated year of construction, and projected funding sources are listed in Table 18. Upon completion, this project will increase flow capacity in the collection system, improve pump efficiency, reduce pump run time, and increase wastewater storage and treatment capacity. Additionally, all opinions of probable costs presented in this section have been updated to Class 3 (from Class 5) per AACEI and have an accuracy range of -20% to +30%.

Table 18: Proposed Project Phases

Description	Construction Begins	Proposed Funding Source
Phase 1 – Investigate I/I + Identify Problems Areas	FY 2022	Reserves
Phase 2 – Replace Priority 1 Pipes + Manholes	FY 2023	USDA-RD
Phase 3 – WWTP Sludge Removal	FY 2023	USDA-RD
Phase 4 – Lift Station Improvements	FY 2024	USDA-RD
Phase 5 – WWTP Monitoring Wells	FY 2023	City Funds
Phase 6 – Investigate Remaining Collection System	FY 2025	City Funds
Phase 7 – Replace Priority 2 Pipes + Manholes	FY 2026	Unknown
Phase 8 – Replace Priority 3 Pipes + Manholes	FY 2028	Unknown

6.1 PROJECT - PHASE 1

This phase involves conducting a Sewer System Evaluation Survey (SSES) for the pipes constructed in the 1930s. Conducting an SSES will provide information on the existing system including areas of infiltration and inflow (I&I), pipe materials and diameters, and pipeline deficiencies such as structurally damaged pipe sections and faulty joints. The City will then determine which locations are most in need of replacement. Determining the sections of pipe to replace based on the SSES allows the City to make the most informed decisions regarding pipe replacement instead of selecting an area based solely on pipe age. The City intends on using sewer utility capital reserves to fund the construction of these improvements.

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Table 19: Opinion of Probable Cost - Phase 1

Item	Description	Description Quantity Unit Unit Price		Unit Price	Total	
1	CCTV Video Inspection	\$ 200,000	\$ 200,000			
				Subtotal:	\$ 200,000	
				25% Contingency:	\$ 50,000	
	15% C	onstruction N	Manage	ment & Inspection:	\$ 30,000	
	Project Total:					

6.2 PROJECT - PHASE 2

The precise size and lengths of pipe to be replaced will be identified through the SSES conducted in Phase 1. This project will likely require directional boring under railroad tracks. Permission to bore under the Union Pacific railroad tracks will be required along with a permit. Construction will cause temporary disruption of service as well. The intent is to select portions of the collection system for replacement which will result in a cost approximately equivalent to that presented in Table 20.

Table 20: Opinion of Probable Cost - Phase 2

Item	Description	Quantity	Unit	Unit Price	Total	
1	6" Cured In Place Pipe	2,897	LF	\$ 40	\$ 115,892	
2	8" Cured In Place Pipe	17,401	LF	\$ 43	\$ 748,230	
3	10" Cured In Place Pipe	7,847	LF	\$ 47	\$ 368,804	
4	48" Sewer Manhole	53	EA	\$ 6,500	\$ 344,500	
5	Jack & Bore Railroad Tracks	400	LF	\$ 210	\$ 84,000	
6	AC Pavement Patch	28,145	SF	\$ 5.20	\$ 146,353	
7	Sewer Service Connection (Top Hat Only)	300	EA	\$ 2,200	\$ 660,000	
8	Miscellaneous (Mobilization, Traffic Control, Sidewalk)	28,145	LF	\$ 51	\$ 1,435,390	
				Subtotal:	\$ 3,903,170	
			25%	Contingency:	\$ 975,792	
		25% Engi	neering	& Inspection:	\$ 975,792	
	Project Total: S					

6.3 PROJECT - PHASE 3

Sludge has not been removed from the wastewater treatment ponds since 1988. Significant sludge buildup in the pond cells reduces available volume and adds organic loading from anaerobic decomposition, contributing to the occasional high CBOD5 levels. This phase of the project proposes to reduce and/or remove sludge from the ponds in an effort to remedy these issues.



Table 21: Opinion of Probable Cost - Phase 3

Item	Description	Quantity	Unit	Unit Price	Total
1	Wastewater Sludge Removal	1	LS	\$ 2,000,000	\$ 2,000,000
				Subtotal:	\$ 2,000,000
			25%	6 Contingency:	\$ 500,000
5% Construction Management & Inspection:					\$ 100,000
				Project Total:	\$ 2,600,000

6.4 PROJECT - PHASE 4

The rehabilitation of the Oak Street Lift Station system will consist of replacing the two pumps and motors, installing a flow meter, installation of a screen auger, and improve the wet well / dry well configuration to avoid confined space safety issues. This phase also involves replacing the existing force main that connects the pump station to the treatment ponds.

Table 22: Opinion of Probable Cost - Phase 4

Item	Description	Quantity	Unit	Unit Price	Total		
1	30 HP Lift Station	1	LS	\$ 2,420,000	\$ 2,420,000		
2	8" Force Main (Open Trench)	4,331	LF	\$ 166	\$ 718,913		
3	Jack & Bore Railroad Tracks	400	LF	\$ 210	\$ 84,000		
4	Miscellaneous (Mobilization, ROW, Sidewalk)	4,331	LF	\$ 51	\$ 220,871		
				Subtotal:	\$ 3,380,784		
	25% Contingency:						
	25% Engineering & Inspection:						
				Project Total:	\$ 5,071,175		

6.5 PROJECT - PHASE 5

This phase proposes to construct 2 new monitoring wells that are located closer to the wastewater treatment ponds. The addition of these wells would provide additional data sources that may impact the scope of future improvement projects at the WWTP.



Table 23: Opinion of Probable Cost – Phase 5

Item	Description	Quantity	Unit	Unit Price	Tota	ત્રી
1	25-ft Deep Monitoring Wells (4-inch casing)	2	EA	\$ 47,050	\$	94,100
2	Miscellaneous (Mobilization, BMPs, Traffic Col)	1	LS	\$ 6,600	\$	6,600
				Subtotal:	\$	100,700
	25% Contingency:					
25% Engineering & Inspection:					\$	25,175
]	Project Total:	\$	151,050

6.6 PROJECT - PHASE 6

This phase involves conducting a SSES for the pipes constructed between the 1960s and the 1980s. Conducting an SSES will provide information on the existing system including areas of infiltration and inflow (I&I), pipe materials and diameters, and pipeline deficiencies such as structurally damaged pipe sections and faulty joints. During the SSES, key locations of deteriorated pipes will be identified. The City will then determine which locations are most in need of replacement.

Table 24: Opinion of Probable Cost - Phase 6

Item	Description	Quantity	Unit	it Unit Price		Total	
1	CCTV Video Inspection	1	LS	\$	200,000	\$	200,000
			•		Subtotal:	\$	200,000
				25% Co	ontingency:	\$	50,000
	Construction Management & Inspection:					\$	50,000
	Project Total:					\$	300,000

6.7 PROJECT - PHASE 7

The inspection in Phase 6 will determine the exact size and length of pipe to be replaced in Phase 7. The intent is to select portions of the collection system for replacement which will result in a cost approximately equivalent to that presented in Table 25.



Table 25: Opinion of Probable Cost – Phase 7

Item	Description	Quantity	Unit Unit Price		To	tal	
1	6" Cured In Place Pipe	2,209	LF	\$	40	\$	88,360
2	8" Cured In Place Pipe	11,785	LF	\$	43	\$	506,755
3	10" Cured In Place Pipe	1,084	LF	\$	47	\$	50,948
4	48" Sewer Manhole	46	EA	\$	6,500	\$	299,000
5	Jack & Bore Railroad Tracks	100	LF	\$	210	\$	21,000
6	AC Pavement Patch	15,078	SF	\$	5.20	\$	78,406
7	Sewer Service Connection (Top Hat Only)	125	EA	\$	2,200	\$	275,000
8	Miscellaneous (Mobilization, Traffic Control, Sidewalk)	15,078	LF	\$	51	\$	768,978
				Su	btotal:	\$	2,101,447
			25% C	Conting	gency:	\$	525,362
		25% Engineering & Inspection:				\$	525,362
		Project Total:					3,152,170

6.8 PROJECT - PHASE 8

The inspection in Phase 6 would determine the exact pipe size and length that will be replaced in Phase 8. The intent is to select portions of the collection system for replacement which will result in a cost approximately equivalent to that presented in Table 26.

Table 26: Opinion of Probable Cost - Phase 8

Item	Description	Quantity	Unit	Unit Price	Total	
1	6" Cured In Place Pipe	1,105	LF	\$ 40	\$ 44,200	
2	8" Cured In Place Pipe	19,757	LF	\$ 43	\$ 849,551	
3	48" Sewer Manhole	65	EA	\$ 6,500	\$ 422,500	
4	Jack & Bore	100	LF	\$ 210	\$ 21,000	
5	AC Pavement Patch	27,314	SF	\$ 5.20	\$ 142,033	
6	Sewer Service Connection (Top Hat Only)	75	EA	\$ 2,200	\$ 165,000	
7	Miscellaneous (Mobilization, Traffic Control)	6,205	LF	\$ 51	\$ 316,455	
				Subtotal:	\$ 2,716,695	
25% Contingency:						
	25% Engineering & Inspection:					
			P	roject Total:	\$ 4,075,043	



6.9 PROPOSED PROJECT SCHEDULE

The dates below represent a proposed project timeline. The schedule presented in Table 27 assumes that the proposed sewer projects in this PER will be designed and constructed concurrently and provide estimates of ROW acquisition/permitting durations. These dates are preliminary and will be refined as the funding allocations are secured and the project proceeds.

Table 27: Proposed Project Schedule

Item	Duration	Estimated Completion Date
	Phase 1	
SSES Investigation	2 Months	April 2022
	Phases 2 and 3	
PER acceptance by USDA	1 Month	December 2021
Rate Study ⁹	In Progress	December 2021
Funding Acquisition	7 Months	June 2022
Engineering Design	8 Months	March 2023
Permitting + ROW Acquisition	10 Months	May 2023
Solicit for Bids + Award	2 Months	June 2023
Construct Improvements	12 Months	July 2024
	Phase 4	
Funding Acquisition	6 Months	June 2023
Engineering Design	4 Months	November 2023
Solicit for Bids + Award	2 Months	January 2024
Construct Improvements	4 Months	June 2024
	Phase 5	
Engineering Design	2 Months	September 2022
Solicit for Bids + Award	1 Month	November 2022
Construct Improvements	2 Months	February 2023
	Phase 6	
Funding Acquisition	6 Months	FY 23
Engineering Design	12 Months	FY 24
Solicit for Bids + Award	2 Months	FY 24
Construct Improvements	12 Months	FY 25
	Phase 7	
Funding Acquisition	6 months	FY 26
Engineering Design	8-12 Months	FY 26
Solicit for Bids + Award	2 Months	FY 26
Construct Improvements	12 Months	FY 27

⁹ Work being completed under separate scope of work from proposed project engineering design.



Item	Duration	Estimated Completion Date							
Phase 8									
Funding Acquisition	6 months	FY 28							
Engineering Design	8-12 Months	FY 28							
Solicit for Bids + Award	2 Months	FY 28							
Construct Improvements	12 Months	FY 29							

6.10 PERMIT REQUIREMENTS

The lift station design must be submitted to NDEP Bureau of Water Pollution Control (BWPC) for approval prior to the start of construction. The design will follow WTS-14 Pumping Station Design and Submittal Criterion published by NDEP.

The NDEP-BWPC also permits water pollution resulting from construction activities, which will be the responsibility of the selected contractor to obtain. The NDOT is responsible for permitting pipes that cross State roadways. Union Pacific Railroad requires permits for projects which cross or encroach its property and tracks. All required permits will be determined and obtained prior to construction.

6.11 SUSTAINABILITY REQUIREMENTS

All proposed alternatives in this PER would improve sustainability within the City's wastewater system. Developing and maintaining a sustainable wastewater system for small utilities is imperative to ensure long-term services for the community.

Aging Systems

The main pump station system proposed to be replaced has components that are as old as 45 years old; pump components are about 30 years old. Spare parts for these older systems will only become more difficult to locate if replacement is delayed. The original collection system consisting of vitrified clay pipe placed in the 1930s has exceeded its design life of 75 years, which will result in the continuing loss of structural integrity, in turn leading to increasing I&I and maintenance problems. The asbestos cement pipe is also aging and is difficult to repair. The clay liner material in the treatment ponds is deteriorating with time and seepage will likely increase. The selected project alternative will replace aging and deteriorating infrastructure which will improve the sustainability of the City's wastewater system by increasing energy efficiency and reducing I&I.

Safety Concerns

The existing main pump station facilities have safety concerns relevant to confined space entry and sewage gases from untreated influent. Modern configurations for this type of facility with modern safety parameters in mind will reduce, if not eliminate, these existing hazards.

Health and Environmental Concerns

As the clay and iron pipes continue to age, they may allow wastewater to infiltrate into the groundwater and adjacent Humboldt River. The proposed project alternative will reduce public health impacts, complaints, regulatory impositions by state or federal government, reduce water monitoring and treatment costs, and other negative consequences.



6.12 TOTAL PROJECT COST ESTIMATE (ENGINEER'S OPINION OF PROBABLE COSTS)

Table 28 summarizes the construction and non-construction costs of the Proposed Project. As stated in previous sections, the exact pipe size and length will be determined based on the video inspections.

Table 28: Total Project Cost Estimate

Item	Description	Quantity	Unit	Ur	it Price		Total
1	CCTV Video Inspection	2	LS	\$	200,000	\$	400,000
2	6" Cured In Place Pipe	6,211	LF	\$	40	\$	248,452
3	8" Cured In Place Pipe	48,943	LF	\$	43	\$	2,104,536
4	10" Cured In Place Pipe	8,931	LF	\$	47	\$	419,752
5	48" Sewer Manhole	166	EA	\$	6,500	\$	1,079,000
6	Jack & Bore Railroad Tracks	900	LF	\$	210	\$	189,000
7	AC Pavement Patch	64,085	SF	\$	5	\$	333,241
8	Sewer Service Connection (Top Hat Only)	500	EA	\$	2,200	\$	1,100,000
9	30 HP Lift Station	1	LS	\$	2,420,000	\$	2,420,000
10	8" Force Main (Open Trench)	4,331 LF \$ 166					718,913
11	Wastewater Sludge Removal						2,000,000
12	25-ft Deep Monitoring Wells (4-inch casing)	2	EA	\$	47,050	\$ \$	94,100
13	Miscellaneous (Mobilization, Traffic Control, Sidewalk)	1	LS	\$	3,495,801	\$	3,495,801
					Subtotal:	\$	14,603,000
		20	0% Construc			\$	2,921,000
					hts of Way:	\$	25,000
			Legal a		nd Counsel:	\$	40,000
					im Interest:	\$	880,000
					Permitting:	\$	25,000
	_		_		ngineering:	\$	2,000,000
	E	Bid Assistance				\$	1,400,000
					Inspection:	\$	1,400,000
					ction Total:	\$	17,524,000
			Non-C		ction Total:	\$	5,770,000
				Pro	ject Total:	\$	23,294,000

6.13 FINANCIAL IMPACT ANALYSIS

As discussed in Section 2.5 the City has limited financial data available for the sewer system. This section will attempt to estimate the financial capacity of the sewer system; however, a more detailed analysis will be provided as part of the rate study and funding acquisition processes. In order to qualify for most funding programs, the City started a sewer system enterprise fund in July of 2020. This fund will be funded primarily by user rate revenues and will need to maintain restricted reserves for debt coverage (i.e., bond reserve) and a capital replacement reserve account (i.e., short-lived assets).



6.13.1 SYSTEM EXPENSES

Table 29 provides a five-year (i.e., 2014-2018) summary of sewer system budgets and expenses incurred. This data was interpolated from certified audit data. From this data, it appears that the average annual cost of operation of the sewer system is approximately \$480,000.

2018 5-Yr. Avg. Item Budget **Actual Budget** Actual \$ 120,049 \$ 121,095 \$ 139,247 \$ Salaries 125,186 Benefits \$ 73,660 \$ 60,115 \$ 75,000 \$ 47,627 \$ 159,969 Services and Supplies \$ 66,260 \$ 211,576 \$ 71,400 Depreciation \$ \$ 90,052 \$ \$ 103,504 Total Expenses = \$ 259,969 \$ 482,838 \$ 285,647 \$ 436,286 Revenues \$ 310,922 \$ 333,029 \$ 292,932 \$ 325,128 Difference = 50,952 \$ (149,809)7,285 (111,158)

Table 29: Detailed Operational Budgets

6.13.2 SYSTEM REVENUES

The City sewer system is funded from a user fee that is combined with water service, landfill operation, and street light operations. It is estimated that the current residential user fee is \$29.85 per month. Total sewer system revenues fluctuated between \$324,948 (2018) and \$326,128 (2016) and were insufficient to cover sewer system expenses over the five-year study period.

6.13.3 FUTURE DEBT SERVICE

At more than \$21 million in total project costs, it is anticipated that the City will need assistance financing the proposed improvement projects presented in this PER. With a current MHI of \$74,148, the City will not qualify for grant funding, principal forgiveness programs and may not qualify for lower interest rates as a result of this condition. Additionally, \$7.010.0 of the City charter sets a debt limit for the City at 20 percent of the total assessed valuation of taxable property within City limits. It is estimated that the current debt limit is approximately \$7.6 million for fiscal year 2022¹⁰.

At past City council meetings, it was determined that the City would pursue external financing for phases 2 through 4 of the proposed project. The estimated annual payment on a 40-yr, \$13.5 million loan at 2.125 percent interest is \$504,000. Basic allocation of this total across a current customer base of 781 results in a per-user impact of \$53.78 per month. Additional user rate analysis is provided in Section 6.13.7 below.

6.13.4 FUTURE RESERVES

As part of the process of creating the water system enterprise fund, the City will want or need to create some reserve accounts to either meet funding requirements or to maintain financial best management practices. There are typically two types of reserves used in the operation of a sewer utility, a restricted reserve, and an unrestricted reserve. This section will focus on the minimum requirements for the restricted

¹⁰ In July of 2021, the City completed a funding application with USDA for \$4.1M in water system improvements. Final terms and conditions for the water project are not available at the time of publication of this PER, although the amount of loan funding made available for the water project and Phase 2 of the proposed sewer project may require modification to the proposed project scope to remain under the \$7.6M debt ceiling.



reserves. Minimum balance goals for unrestricted reserves (e.g., operating reserve, capital reserve) will be recommended as part of the rate study.

6.13.5 BOND RESERVES

A condition of most funding sources which the City is likely to pursue will be the need to maintain a restricted reserve equal to one year of debt repayments for the term of the loan. Typically, these reserves are funded from user rates and most funding agreements allow for these reserves to be built up over ten years. The annual payment for a 40-yr loan of \$14 million at a rate of 2.125 percent would be approximately \$504,000 which would also be the minimum balance for this reserve account. To accrue this total over 10 years, the City would need to generate approximately \$50,000 a year from user rates to fund the reserve which equates to an additional \$5.33 per month per customer.

6.13.6 CAPITAL REPLACEMENT RESERVE

An inventory of the City's short-lived assets¹¹ was performed and can be found in Appendix H. It was found that the City maintains approximately \$805,000 in "short-lived" capital assets which equate to an annual replacement cost of \$67,433. Depending on the source used to fund the improvements, the City will most likely need to fund a restricted reserve account of at least \$67,433 annually. At this time, the City will not need to prepare a fiscal sustainability plan to meet funding requirements.

6.13.7 APPROXIMATE USER RATES

This section attempts to estimate the impact on user rates as a result of the proposed project presented in this PER. Adjusting the annual O&M costs (\$436,286 per year) to account for future inflation and a reduction in annual repair costs (\$61,000) as a result of the improvements, the approximate per-user cost of operating and maintaining the sewer system will be \$40 per month. Adding in the debt service requirement of \$53.78 per month (see Section 6.13.3), a reserve contribution of \$5.33 per month (see Section 6.13.5), and a short-lived asset replacement contribution of \$7.20, the approximate sewer system user fee becomes \$106.31 per month¹² for sewer service only. Additionally, the City is pursuing improvements to its water system and its roadways which may place an additional financial burden on its customers.

The City understands that this fee increase is significant and may not be feasible for the community. City leadership is committed to engaging its citizens with each new piece of information that becomes available throughout the funding and rate study process.

¹² The detailed rate study that the City is pursuing should be used in place of this estimate once the data/estimates are published.



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¹¹ Short lived assets are capital assets with a life expectancy of 15 years or less.

7.0 CONCLUSIONS AND RECOMMENDATION

This report provides the City with planning level estimates for multiple sewer system improvement projects. It is recommended the City use a combination of City sewer reserves, user rates, State Revolving Funds, Community Development Block Grants, and USDA-RD funding over the next 10 years to complete the proposed sewer system improvements.

In summary, the following near-term projects are recommended for the sewer system:

- The City utilize sewer system reserve funds to investigate portions of the collection system and conduct a I/I analysis for the system.
- The City pursue the engineering design, permitting and construction of the replacement of Priority 1 pipes and manholes.
- The City pursue external funding sources (e.g., SRF, USDA) to provide near term capital to design and construct these improvements.
- The City complete a comprehensive rate study which provides recommended user rates, connection fees, reserve account minimums and other financial considerations which will ensure a sustainable sewer system from a management perspective.
- Identify a funding source and solicit bids to remove sludge waste from WWTP lagoons.
- The City utilize sewer system reserve funds to install two Monitoring Wells near WWTP lagoons.
- Identify a funding source to fund the engineering design and construction of Oak Street Lift Station improvements.

Longer-term sewer system projects and goals may include:

- Constructing the Oak Street Lift Station improvements.
- Additional sewer system investigations resulting in a comprehensive database of asset condition and need for replacement.
- Replacing pipes and manholes in other portions of the collection system.
- Developing a sustainable source of revenue or qualifying for external funding programs to fund approximately \$15M-million in improvement projects.

It is also recommended that the City should regularly assess its sewer utility by preparing and/or updating a rate study every five years and maintaining an updated (i.e., at least every seven years) sewer system facility plan. These studies and plans will help the City to keep the sewer system in reliable operation for future generations.



8.0 REFERENCES

Preliminary Engineering Report City of Carlin – Draft. Golder Associates, August 2014.



APPENDIX A

POPULATION DATA
ENVIRONMENTAL DOCUMENTS
GEOLOGY & FAULT MAPS

U.S. Census Bureau



DP-1

Profile of General Population and Housing Characteristics: 2010

2010 Demographic Profile Data

NOTE: For more information on confidentiality protection, nonsampling error, and definitions, see http://www.census.gov/prod/cen2010/doc/dpsf.pdf.

Geography: Carlin city, Nevada

Subject	Number	Percent
SEX AND AGE		
Total population	2,368	100.0
Under 5 years	178	7.5
5 to 9 years	129	5.4
10 to 14 years	190	8.0
15 to 19 years	184	7.8
20 to 24 years	169	7.1
25 to 29 years	153	6.5
30 to 34 years	177	7.5
35 to 39 years	157	6.6
40 to 44 years	186	7.9
45 to 49 years	229	9.7
50 to 54 years	178	7.5
55 to 59 years	140	5.9
60 to 64 years	107	4.5
65 to 69 years	91	3.8
70 to 74 years	49	2.1
75 to 79 years	34	1.4
80 to 84 years	9	0.4
85 years and over	8	0.3
Median age (years)	35.1	(X)
16 years and over	1,845	77.9
18 years and over	1,772	74.8
21 years and over	1,645	69.5
62 years and over	242	10.2
65 years and over	191	8.1
Male population	1,310	55.3
Under 5 years	96	4.1
5 to 9 years	67	2.8
10 to 14 years	92	3.9
15 to 19 years	94	4.0
20 to 24 years	111	4.7
25 to 29 years	93	3.9
30 to 34 years	102	4.3
35 to 39 years	80	3.4
40 to 44 years	110	4.6
45 to 49 years	127	5.4
50 to 54 years	109	4.6
55 to 59 years	80	3.4
60 to 64 years	53	2.2
65 to 69 years	50	2.1
70 to 74 years	25	1.1
75 to 79 years	15	0.6
80 to 84 years	5	0.2
85 years and over	1	0.0

Subject	Number	Percent
Median age (years)	35.0	(X)
16 years and over	1,041	44.0
18 years and over	1,003	42.4
21 years and over	936	39.5
62 years and over	119	5.0
65 years and over	96	4.1
Female population	1,058	44.7
Under 5 years	82	3.5
5 to 9 years	62	2.6
10 to 14 years 15 to 19 years	98	4.1
20 to 24 years	90	3.8
25 to 29 years	58	2.4
30 to 34 years	60	2.5
35 to 39 years	75	3.2
40 to 44 years	77	3.3
45 to 49 years	76	3.2
50 to 54 years	102	4.3
55 to 59 years	69	2.9
•	60	2.5
60 to 64 years	54	2.3
65 to 69 years	41	1.7
70 to 74 years	24	1.0
75 to 79 years	19	0.0
80 to 84 years	4	0.2
85 years and over	7	0.0
Median age (years)	35.2	(X
16 years and over	804	34.0
18 years and over	769	32.
21 years and over	709	29.9
62 years and over	123	5.2
65 years and over	95	4.0
ACE	0.000	100
Total population One Race	2,368	100.0
	2,327	98.3
White Black or African American	2,174	91.8
American Indian and Alaska Native	43	1.8
Asian	35	1.5
Asian Indian	14	0.0
	2	0.
Chinese	3	0.
Filipino	5	0.2
Japanese	1	0.0
Korean	1	0.0
Vietnamese	0	0.0
Other Asian [1]	2	0.1
Native Hawaiian and Other Pacific Islander	0	0.0
Native Hawaiian	0	0.0
Guamanian or Chamorro	0	0.0
Samoan	0	0.0
Other Pacific Islander [2]	0	0.0
Some Other Race	61	2.0
Two or More Races	41	1.
White; American Indian and Alaska Native [3]	19	0.8
White; Asian [3]	5	0.2
White; Black or African American [3]	5	0.3
White; Some Other Race [3]	5	0.3
Race alone or in combination with one or more other		
aces: [4] White	2,211	93.4
Black or African American	50	2.
	50	۷.

	Percent
22	0.9
2	0.1
69	2.9
2,368	100.0
240	10.1
179	7.6
4	0.2
1	0.0
56	2.4
2,128	89.9
2,368	100.0
240	10.1
160	6.8
2	0.1
5	0.2
0	0.0
0	0.0
61	2.6
12	0.5
2,128	89.9
2,014	85.1
41	1.7
30	1.3
14	0.6
0	0.0
0	0.0
29	1.2
2,368	100.0
	95.3
882	37.2
453	19.1
630	26.6
500	21.1
	5.6
68	2.9
8	0.3
158	6.7
	1.1
	0.2
79	3.3
	4.7
	4.7
	4.7
	0.0
	0.0
	0.0
	0.0
Ŭ	0.0
882	100.0
	65.3
	30.6
	51.4
	22.0
	7.6
39	4.4
39	4.4
56	6.3
	69 2,368 240 179 4 1 56 2,128 2,368 240 160 2 5 0 0 61 12 2,128 2,014 41 30 14 0 0 29 2,368 2,256 882 453 630 500 133 68 8 158 25 4 79 112 112 112 112 112 0 0 0 0 882 576 270 453 194 67

Subject	Number	Percent
Nonfamily households [7]	306	34.7
Householder living alone	237	26.9
Male	165	18.7
65 years and over	23	2.6
Female	72	8.2
65 years and over	40	4.5
Households with individuals under 18 years	302	34.2
Households with individuals 65 years and over	152	17.2
Average household size	2.56	(X)
Average family size [7]	3.11	(X)
HOUSING OCCUPANCY		
Total housing units	1,043	100.0
Occupied housing units	882	84.6
Vacant housing units	161	15.4
For rent	82	7.9
Rented, not occupied	2	0.2
For sale only	6	0.6
Sold, not occupied	7	0.7
For seasonal, recreational, or occasional use	27	2.6
All other vacants	37	3.5
Homeowner vacancy rate (percent) [8]	1.0	(X)
Rental vacancy rate (percent) [9]	21.3	(X)
HOUSING TENURE		
Occupied housing units	882	100.0
Owner-occupied housing units	581	65.9
Population in owner-occupied housing units	1,525	(X)
Average household size of owner-occupied units	2.62	(X)
Renter-occupied housing units	301	34.1
Population in renter-occupied housing units	731	(X)
Average household size of renter-occupied units	2.43	(X)

X Not applicable.

- [1] Other Asian alone, or two or more Asian categories.
- [2] Other Pacific Islander alone, or two or more Native Hawaiian and Other Pacific Islander categories.
- [3] One of the four most commonly reported multiple-race combinations nationwide in Census 2000.
- [4] In combination with one or more of the other races listed. The six numbers may add to more than the total population, and the six percentages may add to more than 100 percent because individuals may report more than one race.
- [5] This category is composed of people whose origins are from the Dominican Republic, Spain, and Spanish-speaking Central or South American countries. It also includes general origin responses such as "Latino" or "Hispanic."
- [6] "Spouse" represents spouse of the householder. It does not reflect all spouses in a household. Responses of "same-sex spouse" were edited during processing to "unmarried partner."
- [7] "Family households" consist of a householder and one or more other people related to the householder by birth, marriage, or adoption. They do not include same-sex married couples even if the marriage was performed in a state issuing marriage certificates for same-sex couples. Same-sex couple households are included in the family households category if there is at least one additional person related to the householder by birth or adoption. Same-sex couple households with no relatives of the householder present are tabulated in nonfamily households. "Nonfamily households" consist of people living alone and households which do not have any members related to the householder.
- [8] The homeowner vacancy rate is the proportion of the homeowner inventory that is vacant "for sale." It is computed by dividing the total number of vacant units "for sale only," and vacant units that have been sold but not yet occupied; and then multiplying by 100.
- [9] The rental vacancy rate is the proportion of the rental inventory that is vacant "for rent." It is computed by dividing the total number of vacant units "for rent" by the sum of the renter-occupied units, vacant units that are "for rent," and vacant units that have been rented but not yet occupied; and then multiplying by 100.

Source: U.S. Census Bureau, 2010 Census.

2017 Population Projections for Nevada's Counties 2017 to 2036 Based On 2016 Estimate: Includes Tesla and Housing Costs as Separate Impact

\A/:41- A -1 -14:1				1		
With Addtional	Elko W/	Additional Fa	actors	Esmeralda	W/ Additiona	al Factors
Factors: Tesla	Tatal	Change	Danaantana	Tatal	Change	Danasataa
and Housing	Total	Previous	Percentage	Total	Previous	Percentage
Costs	Population	Year	Change	Population	Year	Change
2016	53,997	500	0.00/	964	0	0.00/
2017	54,498	500	0.9%	958	-6	-0.6%
2018	54,890	393	0.7%	957	-1	-0.1%
2019	55,061	171	0.3%	954	-2	-0.2%
2020	55,235	174	0.3%	957	2	0.29
2021	55,407	173	0.3%	962 967	5	0.5%
2022	55,560	153	0.3%		6	0.6%
2023	55,725	164	0.3%	973	6	0.69
2024	55,926	202	0.4%	978	5	0.5%
2025	56,104	178	0.3%	982	4	0.49
2026	56,266	161	0.3%	984	2	0.29
2027	56,457	191	0.3%	990	6	0.69
2028	56,670	213	0.4%	996	6	0.69
2029	56,892	222	0.4%	999	4	0.49
2030	57,106	214	0.4%	1,002	2	0.29
2031	57,338	232	0.4%	1,004	2	0.29
2032	57,575	237	0.4%	1,005	1	0.19
2033	57,835	261	0.5%	1,006	1	0.19
2034	58,112	277	0.5%	1,008	1	0.19
2035	58,380	268	0.5%	1,009	1	0.19
2036	58,648	268	0.5%	1,012	4	0.4%
		Elko			Esmeralda	
		-				
DRAFT Without		Change			Change	
DRAFT Without	Total	Change	Percentage	Total	Change	Percentag
Tesla and Current	Total	Previous	Percentage	Total	Previous	•
Tesla and Current Housing Costs	Population	_	Percentage Change	Population	_	•
Tesla and Current Housing Costs 2016	Population 53,997	Previous Year	Change	Population 964	Previous Year	Chang
Tesla and Current Housing Costs 2016 2017	Population 53,997 54,364	Previous Year	Change 0.7%	Population 964 956	Previous Year	Chang -0.9%
Tesla and Current Housing Costs 2016 2017 2018	Population 53,997 54,364 54,661	Previous Year 367 297	0.7% 0.5%	Population 964 956 953	Previous Year -8 -2	-0.9% -0.2%
Tesla and Current Housing Costs 2016 2017 2018 2019	Population 53,997 54,364 54,661 54,880	97 Previous Year 367 297 219	0.7% 0.5% 0.4%	Population 964 956 953 952	Previous Year -8 -2 -1	-0.9% -0.2% -0.1%
Tesla and Current	Population 53,997 54,364 54,661 54,880 55,071	Previous Year 367 297 219 191	0.7% 0.5% 0.4% 0.3%	Population 964 956 953 952 956	Previous Year -8 -2 -1	-0.99 -0.29 -0.19 -0.49
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021	Population 53,997 54,364 54,661 54,880 55,071 55,256	97 219 191 185	0.7% 0.5% 0.4% 0.3% 0.3%	Population 964 956 953 952 956 960	Previous Year -8 -2 -1 4 5	-0.9% -0.2% -0.1% -0.4% 0.5%
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417	367 297 219 191 185 160	0.7% 0.5% 0.4% 0.3% 0.3% 0.3%	Population 964 956 953 952 956 960	Previous Year -8 -2 -1 4 5	-0.99 -0.29 -0.19 -0.49 0.59 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584	367 297 219 191 185 160	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3%	Population 964 956 953 952 956 960 966 972	-8 -2 -1 4 5 6	-0.9% -0.2% -0.1% -0.4% -0.5% -0.6% -0.6%
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791	97 297 219 191 185 160 168 207	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4%	Population 964 956 953 952 956 960 966 972 977	-8 -2 -1 4 5 6 6	-0.9% -0.2% -0.1% 0.4% 0.5% 0.6% 0.6%
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975	Previous Year 367 297 219 191 185 160 168 207 184	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3%	Population 964 956 953 952 956 960 966 972 977 980	-8 -2 -1 4 5 6 6 5 4	-0.99 -0.29 -0.19 0.49 0.59 0.69 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146	Previous Year 367 297 219 191 185 160 168 207 184 171	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.3%	Population 964 956 953 952 956 960 966 972 977 980 983	Previous Year -8 -2 -1 4 5 6 6 5 4 2	-0.99 -0.29 -0.19 -0.49 0.59 0.69 0.69 0.49 0.29
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350	97 Previous Year 367 297 219 191 185 160 168 207 184 171 205	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4%	Population 964 956 953 952 956 960 966 972 977 980 983	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6	-0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.49 0.29 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580	97 Previous Year 367 297 219 191 185 160 168 207 184 171 205 230	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.4%	Population 964 956 953 952 956 960 966 972 977 980 983 989	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5	-0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.69 0.69 0.69 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580 56,820	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.4% 0.4%	Population 964 956 953 952 956 960 966 972 977 980 983 989 993	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 5	-0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.69 0.69 0.69 0.69 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580 56,820 57,053	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4%	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 1,000	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2	Chang -0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.69 0.59 0.69 0.59 0.69
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,820 57,053 57,304	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234 250	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4%	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 1,000 1,003	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2 2	Chang -0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.29 0.69 0.59 0.29 0.29 0.29 0.29
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580 56,820 57,053 57,304 57,559	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234 250 255	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 998 1,000 1,003	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2 0	Chang -0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.29 0.69 0.59 0.29 0.29 0.29 0.29
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2032	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580 56,820 57,053 57,304 57,559 57,837	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234 250 255 278	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 998 1,000 1,003 1,003	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2 2 0 2	Chang -0.99 -0.29 -0.19 0.49 0.59 0.69 0.69 0.29 0.69 0.29 0.09 0.29 0.09 0.29
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2032 2033 2034	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,820 57,053 57,304 57,559 57,837 58,131	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234 250 255 278 294	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 998 1,000 1,003 1,005 1,006	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2 2 0 2 1	Change -0.9% -0.29 -0.19 0.49 0.59 0.69 0.69 0.29 0.09 0.29 0.09 0.29 0.09 0.29 0.19
Tesla and Current Housing Costs 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032	Population 53,997 54,364 54,661 54,880 55,071 55,256 55,417 55,584 55,791 55,975 56,146 56,350 56,580 56,820 57,053 57,304 57,559 57,837	Previous Year 367 297 219 191 185 160 168 207 184 171 205 230 240 234 250 255 278	0.7% 0.5% 0.4% 0.3% 0.3% 0.3% 0.3% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4% 0.4	Population 964 956 953 952 956 960 966 972 977 980 983 989 993 998 1,000 1,003 1,003	Previous Year -8 -2 -1 4 5 6 6 5 4 2 6 5 5 2 2 0 2	Percentage Change -0.9% -0.2% -0.1% 0.4% 0.5% 0.6% 0.6% 0.5% 0.4% 0.2% 0.6% 0.5% 0.1% 0.2% 0.0% 0.2% 0.0% 0.2% 0.1% 0.1% 0.4%

	April 1	JULY 1	Percent Change	Percent Change	JULY 1	Percent Change	JULY 1	Percent Change	JULY 1	Percent Change
	2000	2000	4/00 - 7/01	7/00 - 7/01		7/01 - 7/02	2002	7/02 - 7/03		7/03 - 7/04
State of Nevada	1,998,257	2,066,831	6.7%	3.2%	2,132,498	3.4%	2,206,022	4.1%	2,296,566	5.0%
Counties	•	•	•			•	•	•	•	•
Cities										
Towns										
Douglas County	41,259	43,101	5.3%	0.8%	43,450	1.8%	44,212	3.1%	45,603	4.8%
Gardnerville	3,377	3,528	14.0%	9.2%	3,851	5.6%	4,065	6.2%	4,316	17.4%
Genoa	235	245	-4.5%	-8.6%	224	1.3%	227	1.0%	229	6.6%
Minden	2,697	2,818	6.1%	1.5%	2,861	-1.1%	2,830	1.4%	2,870	2.6%
Elko County	45,291	50,756	3.0%	-8.1%	46,668	-0.2%	46,577	-1.7%	45,805	1.5%
Carlin	2,161	2,395	2.5%	-7.5%	2,215	-6.4%	2,074	-1.4%	2,045	9.6%
Elko	16,708	18,642	2.3%	-8.3%	17,093	-2.4%	16,690	-2.0%	16,354	4.8%
Wells	1,346	1,563	-11.5%	-23.8%	1,191	16.6%	1,389	-1.1%	1,373	2.4%
West Wendover	4,721	3,867	-2.3%	19.3%	4,614	4.9%	4,839	-2.2%	4,732	2.1%
Jackpot	1,178	1,310	9.3%	-1.7%	1,287	0.1%	1,288	-1.3%	1,271	0.8%
Montello	191	216	-5.1%	-16.3%	181	0.0%	181	0.0%	181	-1.1%
Mountain City	135	150	-2.6%	-12.4%	132	-4.0%	127	-1.6%	125	-1.3%
Esmeralda County	971	1,513	6.9%	-31.4%	1,038	8.4%	1,125	-0.8%	1,116	5.3%
Goldfield	369	574	35.0%	-13.4%	498	-11.9%	438	0.2%	439	3.1%
Silver Peak	148	230	9.8%	-29.6%	162	-20.9%	128	-3.5%	124	2.4%
Eureka County	1,651	1,847	-8.8%	-18.5%	1,506	-8.1%	1,384	2.6%	1,420	4.4%
Crescent Valley	330	369	-9.7%	-19.3%	298	-6.3%	279	7.4%	300	1.4%
Eureka (town)	499	558	-5.8%	-15.8%	470	-7.8%	434	2.9%	446	1.7%
Humboldt County	16,106	18,149	0.4%	-10.9%	16,164	0.9%	16,308	0.9%	16,457	1.4%
Winnemucca	7,174	8,884	-2.4%	-21.2%	7,001	3.3%	7,234	0.6%	7,280	-0.4%

		Percent		Percent		Percent	Ī	Percent		Percent
	JULY 1	Change								
		7/04 - 7/05	2005	7/05 - 7/06		7/06 - 7/07		7/07 - 7/08		7/08 - 7/09
State of Nevada	2,410,768	4.5%	2,518,869	4.1%	2,623,050	3.6%	2,718,337	0.8%	2,738,733	-1.0%
Counties										
Cities										
Towns										
Douglas County	47,803	4.8%	50,108	3.3%	51,770	1.2%	52,386	-0.5%	52,131	-1.4%
Gardnerville	5,067	1.9%	5,165	7.4%	5,550	-2.8%	5,394	0.3%	5,412	-3.0%
Genoa	244	1.4%	248	1.6%	252	0.2%	252	1.3%	255	0.2%
Minden	2,945	1.3%	2,983	8.4%	3,234	0.2%	3,239	0.7%	3,261	-1.0%
Elko County	46,499	2.3%	47,586	1.6%	48,339	4.3%	50,434	0.3%	50,561	1.5%
Carlin	2,240	1.0%	2,261	0.9%	2,281	0.6%	2,295	1.2%	2,322	1.0%
Elko	17,140	4.1%	17,850	1.9%	18,183	1.3%	18,427	0.0%	18,424	0.0%
Wells	1,406	1.2%	1,423	1.9%	1,449	4.0%	1,508	1.1%	1,524	-0.6%
West Wendover	4,830	0.4%	4,848	0.5%	4,871	1.8%	4,958	0.6%	4,990	-0.9%
Jackpot	1,281	-0.6%	1,273	1.6%	1,293	-5.9%	1,217	0.4%	1,222	-3.1%
Montello	179	1.2%	181	-3.7%	175	-5.7%	165	0.4%	165	1.3%
Mountain City	123	-1.8%	121	3.1%	125	3.5%	129	0.9%	130	-7.0%
Esmeralda County	1,176	8.5%	1,276	-1.1%	1,262	-2.1%	1,236	0.3%	1,240	-4.3%
Goldfield	453	-3.3%	438	-1.7%	430	4.2%	448	-7.5%	415	6.4%
Silver Peak	127	-0.9%	126	-7.1%	117	6.9%	125	45.9%	182	-22.7%
Eureka County	1,484	0.1%	1,485	-1.7%	1,460	-0.1%	1,458	6.5%	1,553	0.6%
Crescent Valley	304	2.2%	311	-5.9%	292	-1.2%	289	-2.2%	283	0.2%
Eureka (town)	454	-2.9%	440	-1.7%	433	-0.4%	431	9.6%	473	2.1%
Humboldt County	16,692	3.6%	17,293	2.6%	17,751	1.7%	18,052	-0.2%	18,014	-1.8%
Winnemucca	7,249	2.1%	7,401	3.3%	7,643	0.0%	7,646	0.2%	7,659	-0.9%

	JULY 1 2009	Percent Change 7/09 - 7/10	April 1 2010	JULY 1 2010	Percent Change 4/10 - 7/11	Percent Change 7/10 - 7/11	JULY 1 2011	Percent Change 7/11 - 7/12	JULY 1 2012	Percent Change 7/12 - 7/13
State of Nevada	2,711,206	0.5%	2,700,551	2,724,634	0.8%	-0.1%	2,721,794	1.0%	2,750,217	1.8%
Counties		-	-			-		· · · · · · · · · · · · · · · · · · ·	-	·
Cities										
Towns										
		!				1		1		
Douglas County	51,390	-4.2%	46,997	49,242	1.4%	-3.2%	47,661	0.7%	48,015	1.0%
Gardnerville	5,250	-5.1%	4,756	4,983	15.0%	9.8%	5,469	0.5%	5,495	0.8%
Genoa	256	-4.7%	233	244	-7.2%	-11.5%	216	1.3%	219	0.6%
Minden	3,229	-0.5%	3,067	3,213	-2.7%	-7.1%	2,984	0.9%	3,010	-0.6%
Elko County	51,325	1.5%	48,818	52,097	2.1%	-4.3%	49,861	3.8%	51,771	3.1%
Carlin	2,345	1.1%	2,368	2,370	0.3%	0.3%	2,376	0.0%	2,376	20.0%
Elko	18,428	2.2%	18,297	18,842	5.0%	1.9%	19,209	6.2%	20,406	2.7%
Wells	1,515	1.1%	1,292	1,531	-9.1%	-23.3%	1,174	9.0%	1,280	2.1%
West Wendover	4,945	1.1%	4,410	4,999	1.4%	-10.6%	4,470	-2.3%	4,367	2.0%
Jackpot	1,184	1.1%	1,103	1,197	-12.7%	-19.5%	963	-5.1%	914	1.0%
Montello	167	1.0%	156	169	-49.3%	-53.3%	79	-23.5%	60	-0.3%
Mountain City	121	0.9%	112	122	-9.3%	-16.4%	102	7.4%	110	-0.7%
Formaralda Caunty	1,187	-3.5%	783	1 145	5.4%	-27.9%	825	4.3%	860	-0.2%
Esmeralda County Goldfield	441	-3.5% -9.4%	274	1,145 400	5.4%	-27.9% -28.0%	288	-9.9%	259	12.8%
Silver Peak	141	-9.4% -8.3%		129	32.6%	-26.0% -9.3%	117	9.4%	128	3.4%
Silver Peak	141	-0.3%	88	129	32.0%	-9.3%	117	9.4%	120	3.4%
Eureka County	1,562	3.0%	1,987	1,609	0.4%	23.9%	1,994	0.8%	2,011	0.7%
Crescent Valley	283	4.5%	366	296	8.3%	33.8%	396	-6.5%	370	0.2%
Eureka (town)	483	3.3%	616	499	-0.8%	22.4%	611	17.3%	717	0.4%
Humboldt County	17,690	3.8%	16,528	18,364	3.7%	-6.7%	17,135		17,384	0.4%
Winnemucca	7,593	4.8%	7,396	7,961	6.0%	-1.5%	7,839	2.0%	7,997	2.4%

		Percent		Percent		Percent	
	JULY 1	Change	JULY 1	Change	JULY 1	Change	JULY 1
	2013	7/13 - 7/14	2014	7/14 - 7/15	2015	7/15 - 7/16	2016
State of Nevada	2,800,967	1.5%	2,843,301	1.9%	2,897,584	1.9%	2,953,375
Counties		•			•		•
Cities							
Towns							
Douglas County	48,478	0.2%	48,553	-0.7%	48,223	0.0%	48,235
Gardnerville	5,541	4.0%	5,760	-0.2%	5,751	0.5%	5,780
Genoa	220	-1.5%	217	-1.1%	215	-0.5%	213
Minden	2,993	2.7%	3,072	0.0%	3,072	1.2%	3,110
							_
Elko County	53,384	0.0%	53,358	0.4%	53,551	0.8%	53,997
Carlin	2,851	-4.2%	2,731	-0.1%	2,727	-1.6%	2,684
Elko	20,958	-0.4%	20,865	-0.7%	20,714	0.0%	20,704
Wells	1,307	8.0%	1,411	-2.8%	1,371	1.3%	1,388
West Wendover	4,453	-0.7%	4,420	1.3%	4,478	-0.1%	4,474
Jackpot	923	-1.8%	907	-1.0%	898	0.0%	897
Montello	60	-6.3%	56	-0.9%	56	11.6%	62
Mountain City	109	-1.6%	107	-7.0%	100	-4.1%	95
							•
Esmeralda County	858	7.9%	926	-0.4%	923	4.5%	964
Goldfield	293	-7.2%	272	-3.7%	262	-0.6%	260
Silver Peak	132	-3.2%	128	4.0%	133	-7.6%	123
		1	1	1		1	
Eureka County	2,024	-6.0%	1,903	-2.2%	1,862	5.2%	1,959
Crescent Valley	371	0.8%	374	0.0%	374	-0.5%	372
Eureka (town)	720	-3.9%	691	0.8%	697	5.1%	732
	l 4 - 41	1	4= 0001	ا بمما	4 - 01		40.055
Humboldt County	17,457	-0.4%	17,388		17,057	-1.2%	16,853
Winnemucca	8,185	-1.8%	8,042	-3.0%	7,802	-0.4%	7,772



CITY OF CARLIN

Environmental Assessment for Water and Wastewater System Improvements December 2021



OWNER:

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1.0 PURPOSE AND NEED FOR THE PROJECT

1.1 PROPOSED ACTION(S)

The City of Carlin (Carlin) is proposing all or a portion of the following water and sewer system replacement improvements:

Water System Proposed Project: (Alternative 2)

This project would include replacing approximately 13 miles of water main (12, 10, and 8-inch), install 500 water meters, and replace failing infrastructure at Spring 1. The project would also include more than 300,000 square feet of asphalt paving and replace approximately 250 fire hydrants. In general, this project proposes to replace approximately half of the existing water distribution over an area of about 0.5 square miles. New water mains would be installed via open-trench construction in previously disturbed areas.

The first phase of this project would replace the transmission main between Spring 1 and the lower booster pump station in addition to making improvements to the spring facility itself. An engineering design for this project has been completed, although the project has not been subject to competitive bid nor has it been constructed.

The second phase of this project alternative includes replacement of two water transmission mains which cross under I-80 and form the only two connections between the water storage tanks and the majority of the city distribution system. Both of the welded steel mains were constructed in the 1930's and have experienced severe corrosion which has rendered them unsafe, prone to leaks, and are difficult to service. The continuous safe operation of these mains is critical because they supply water to 95% of the City. Additionally, since both mains cross under the I-80 freeway and Chestnut Street, which is a frontage road and the primary east-west artery in Carlin, a large leak in these mains could damage the roadways disrupting interstate traffic patterns and emergency services. Finally, the transmission mains do not have any larger diameter casing providing protection from external loads or excavation activities.

Phase 3 would replace the portion of the distribution system that contains the oldest pipes in the system and is also the area with the greatest water pressures. This phase includes all the locations where main replacement requires directional boring under railroad tracks. The portion of town south of the railroad tracks also contains several mains that dead end. The mains south of the railroad tracks will be extended to 10th Street and 4th Street and looped, eliminating or reducing five dead ends. The horizontal bore under the railroad track at 4th Street will be relocated to the road crossing at B Street and connect to an existing 8-inch PVC main there, eliminating a sixth dead end. Looping the water mains will reduce or eliminate dead end mains, which will increase flow to fire hydrants. Dead end mains can also result in stagnant water and locations for microbiological growth.

Phase 4 improvements include replacing existing deficient water mains north of the railroad tracks and to the east of 6th Street. It is also proposed to include isolated segments of pipe and mains farther to the north, including some isolated segments of main farther north and near I-80. Service lines will be replaced to the edge of City right-of-way and meter pits with meters will be installed. This part of the distribution system contains the second oldest pipes in the distribution system.

The final portion (i.e., Phase 5) of the distribution system which is being proposed for replacement are water mains north of the railroad tracks and to the west of 6^{th} Street. Service lines will also be replaced to the edge of City right-of-way and meter pits with meters will be installed.

The transmission main from Spring 2 to the booster pump is also nearing the end of its useful life and is a candidate for replacement. The proposed improvements include 2,000 lf of 12-inch transmission main which would connect to the Spring 1 transmission main just to the west of Willow St. Additionally, the

spring outlet and flow gauge would be replaced as well. The need for this project is significantly downgraded due to the fact that the City does not need to rely on Spring 2 water to meet average or peak demands.

Pipeline to be replaced in the proposed water system project are listed in the table below.

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063



Proposed Water Improvements Carlin of

Figure

1:53,439

The data contained herein does not represent survey delineation and should not be construed as a replacement for the authoritative source. No liability is assumed by Farr West Engineering as to the sufficiency or accuracy of the data.

Sewer System Proposed Project: (Alternative 3)

This project alternative proposes to replace the same system components as alternative 1. However, this alternative would replace all failing sewer collection mains with a cured in place pipe (CIPP) inside of existing pipes as opposed to completely replacing all failing pipes with new materials. This method of construction has many benefits, including:

- reduced unit installation costs,
- smaller quantities of asphalt which needs to be replaced,
- pipe segments replaced with jointless, seamless pipes, and
- reduced traffic control costs.

The primary drawbacks to this method of construction is that some open-trench construction will still be required in areas where the "host" pipeline has significant structural flaws or failures and/or the pipeline has a comprimised slope or flowline. Additionally, If there is a need to re-align a section of the collection system that would also require open-trench construction. An additional drawback is that the lined pipe can only be cleaned in the future with a water-jetting based device as mechanical cable or "snakes" would damage the liner material.

This alternative also proposes to line the City owned portion of each sewer connection and not replace any piping or install any new cleanouts with the improvements.

Pipeline to be replaced in the proposed sewer system project are listed in the table below.

SEWER

PIPE DIAMETER (in) PIPE LENGTH (ft)		PIPE DIAMETER (in)	PIPE LENGTH (ft)	
3	1,754	8	57,987	
4	1,515	10	8,631	
6	7,177	Unknown	7,727	



Sewer Improvements Carlin of Proposed City 2: Figure

1:53,439

The data contained herein does not represent survey delineation and should not be construed as a replacement for the authoritative source. No liability is assumed by Farr West Engineering as to the sufficiency or accuracy of the data.

1.2 PURPOSE AND NEED FOR THE PROJECT

1.2.1 Health and Safety

The primary water system issues related to health and safety include:

- Hazardous materials (lead joints, asbestos cement, potential lead service connections);
- Undersized water mains:
- Significant water losses;
- Insufficient hydraulic capacity to satisfy fire flow requirements, and
- Potential backflow contamination from leaks in system during low pressure events.

The primary sewer system issues related to health and safety include:

- Insufficient pipe slopes and bury depths;
- Structural and O&M defects throughout the system (holes, obstructions, leaching)
- Root obstruction,
- Lift station at end of useful life, and
- Clay lining failing on sewer lagoons.

1.2.2 Aging infrastructure and System O&M

O&M costs are directly related to the condition of the system. Therefore, all the above-mentioned issues are the cause of rising O&M costs. It is anticipated that the construction of any alternative which does not expand the service area or boundary will result in a reduction in O&M costs as they relate to time and resources to repairs of the outdated water and sewer systems.

The following is a summarized list of water issues related to aging infrastructure:

- Transmission Mains All transmission mains, from both spring sources and those to the storage tanks, have reached the end or their service lives. Failure of these mains creates a potential for a water emergency situation. Additionally, repair activities present a safety hazard to the personnel working on the pipes and increases the likelihood of a more significant failure.
- Old Distribution System Very old sections (e.g. 1930's) of distribution system piping are likely the cause for high system water losses and the increased potential for future contamination. Also, many aged fire hydrants require adapters for modern fire hoses.
- Source The Spring 1 intake structure is thoroughly corroded.

Storage – The useful life of the water storage tanks have been extended through numerous repairs and recoatings. At some point the tanks will need to be replaced

The following is a summarized list of wastewater issues related to aging infrastructure:

• Aging original section of collection system – reported tree root intrusion. Recent tree root intrusion found in PVC pipe;

- Replacement of the Oak Street Lift Station, Smith and Loveless duplex wet well dry well sewage pump station including the wet well inlet screen and antiquated flow/totalizing meter;
- Inaccurate flow metering data recordation at the Oak Street Lift Station and treatment effluent pumping;
- I/I, believed to account for a significant percentage of sewage volume, cannot be accurately estimated;
- The approximate 43-year old clay liners of the treatment ponds will only continue to degrade allowing additional seepage; and
- Sludge has not been removed from the treatment ponds since 1988

2.0 PROJECT LOCATION

The City of Carlin is located on the western border of Elko County, Nevada. The Humboldt River flows on the south end of town. Two of the Humboldt's tributaries, Maggie and Susie Creek, run through the City of Carlin. Natural boundaries include Pine Mountain to the south, Mary's Mountain to the west, and Grindstone Mountain to the east. A location map is shown in Figure 3.

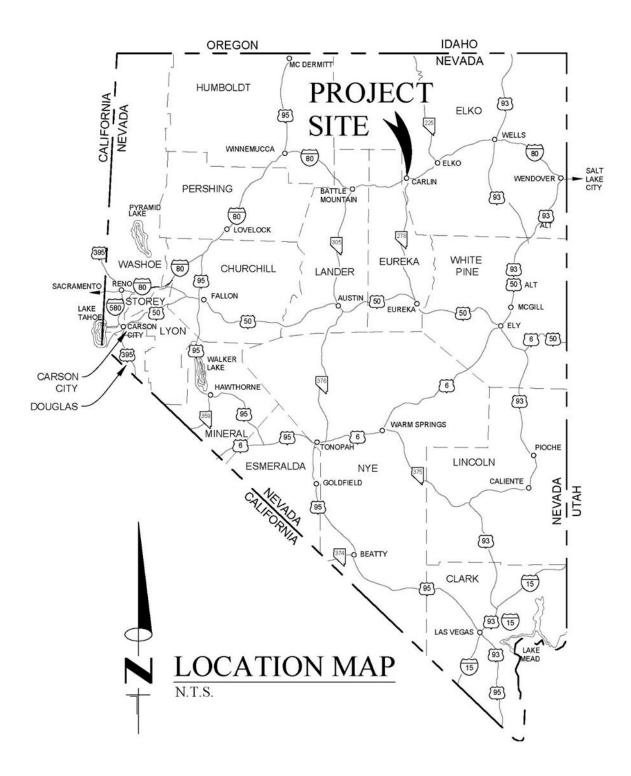


Figure 3 Project Location

3.0 ALTERNATIVES TO PROPOSED ACTION

3.1 DESIGN CRITERIA

It should be noted that the Area of Potential Effect (APE) of this project includes individual elements that will not be implemented simultaneously. All pipe elements will have relatively narrow APE's that will mostly be within or near road shoulders and disturbances will occur within previously developed areas.

3.1.1 Cultural Resources

The only potential impact(s) that could occur because of project elements would be the inadvertent discovery of possible archeological materials. If that occurs, the following protocols would be observed:

- All work will stop immediately in the vicinity of the find,
- the area will be secured and protected,
- the project inspector will be notified,
- SHPO will be notified.
- if human remains are encountered, the City of Carlin Police Department, Commission on Indian Services (CIS), Tribes, and BLM will also be notified,
- no work may resume until SHPO and BLM Archaeology staff are on-site and able to assess the situation and clear the site for continuation of construction activities.

3.1.2 Biological Resources

The Nevada Department of Wildlife and/or the United States Forest Service makes the following recommendations regarding the protection of habitat and wildlife during construction:

- Avoiding vegetation removal activities outside the migratory bird breeding season (passerines: April 15 July 15; raptors Feb. 1 Aug). If conducting vegetation disturbance activities during this time, we recommend that a qualified biologist survey for bird breeding behavior within 10 days of the disturbance. If breeding behavior is detected, please apply appropriate non-disturbance buffer or contact NDOW or FWS for further direction,
- avoid impacts to abandoned mines, caves, and roosting and foraging areas,
- work crews take appropriate fire prevention and management measures (e.g. extinguishers, shovels, no smoking, spark arrestors, etc.) to prevent a fire from starting and spreading into adjacent wildlife habitat.
- appropriate weed management plans be developed and implemented to monitor, prevent, and treat weeds from occupying the disturbance area and spreading into adjacent areas. Additionally, we recommend rehabilitating disturbed areas to prevent future weed infestations.
- USFWS recommends: Prevent the spread of invasive species and include measures designed to limit the spread of invasive species facilitated by project activities. Measures may include physical or chemical methods to control or remove invasive species, particularly related to Lahontan Cutthroat Trout.

•

3.1.3 Erosion and Best Management Practices

To prevent erosion during and after construction, best management practices such as the following will be implemented during construction depending upon conditions and need:

- Soils and slopes at the site will be assessed,
- existing vegetation will be preserved wherever possible,
- impervious surfaces will be minimized,
- work to minimize exposed soil areas,
- development of a Storm Water Pollution Prevention Plan,
- salvage, stockpile and reuse topsoil,
- install construction entrances and control dust,
- protect soils with vegetation, mulch, and binders,
- use sediment barriers including fiber rolls and silt fence,
- protecting culvert and ditch inlets and outlets,
- manage trash, materials, and supplies,
- project close-out including removing temporary sediment controls and final site stabilization.

3.1.4 Pressure Requirements

State pressure requirements include the following:

<u>Pressures</u>

According to NAC 445A.6672, Item 2, the public water system shall ensure the residual pressure in the distribution system is:

- At least 20 psi during conditions of fire flow and fire demand experienced during maximum day demand;
- At least 30 psi during peak hour demand; and
- At least 40 psi during maximum day demand.

Furthermore, the zones of pressure in a distribution system must be designed in such a manner that the static pressure at the lowest ground elevation of the zone does not exceed 100 psi.

Velocities

NAC 445A.6672, Item 2 states that high head losses must be avoided by maintaining normal water velocities below 8 feet per second during all conditions of flow other than fire flow.

3.1.5 Projects Involving Collection System Work – WasteWater Collection

As required by NAC 445A.783, item 1, a project that involves collection system work must improve the integrity and performance of the complete waste treatment system. Wastewater systems must also address issues associated with infiltration and blockages as designated in NAC 445A.785.

The antiquated collection system is proposed for replacement to improve the containment of wastewater and reduce the impacts of system leaks. Reducing leaks will reduce infiltration along pipe alignments. Infiltration can also be reduced by improving the lining of the wastewater lagoon treatment facility. The collection system also is impacted by blockages that require regular maintenance.

3.2 WATER SYSTEM ALTERNATIVES CONSIDERED

Alternatives to the proposed project that were considered during the preliminary design phase are described in this section.

3.2.1 Alternative 1: No Action

If no action is taken, the systems will continue to operate as they currently do, including but not limited to the potential for water loss, poor fire flow, low pressures, inefficient use of water resources, wastewater infiltration, and continuing maintenance costs.

3.2.2 Alternative 2: Replace Distribution System with Improvements to Spring 1 and Spring 2

This project would include replacing approximately 13 miles of water main (12, 10, and 8-inch), install 500 water meters, and replace failing infrastructure at Spring 1. The project would also include more than 300,000 square feet of asphalt paving and replace approximately 250 fire hydrants. In general, this project proposes to replace approximately half of the existing water distribution over an area of about 0.5 square miles. New water mains would be installed via open-trench construction in previously disturbed areas.

The first phase of this project would replace the transmission main between Spring 1 and the lower booster pump station in addition to making improvements to the spring facility itself. An engineering design for this project has been completed, although the project has not been subject to competitive bid nor has it been constructed.

The second phase of this project alternative includes replacement of two water transmission mains which cross under I-80 and form the only two connections between the water storage tanks and the majority of the city distribution system. Both of the welded steel mains were constructed in the 1930's and have experienced severe corrosion which has rendered them unsafe, prone to leaks, and are difficult to service. The continuous safe operation of these mains is critical because they supply water to 95% of the City. Additionally, since both mains cross under the I-80 freeway and Chestnut Street, which is a frontage road and the primary east-west artery in Carlin, a large leak in these mains could damage the roadways disrupting interstate traffic patterns and emergency services. Finally, the transmission mains do not have any larger diameter casing providing protection from external loads or excavation activities.

Phase 3 would replace the portion of the distribution system that contains the oldest pipes in the system and is also the area with the greatest water pressures. This phase includes all the locations where main replacement requires directional boring under railroad tracks. The portion of town south of the railroad tracks also contains several mains that dead end. The mains south of the railroad tracks will be extended to 10th Street and 4th Street and looped, eliminating or reducing five dead ends. The horizontal bore under the railroad track at 4th Street will be relocated to the road crossing at B Street and connect to an existing 8-inch PVC main there, eliminating a sixth dead end. Looping the water mains will reduce or eliminate dead end mains, which will increase flow to fire hydrants. Dead end mains can also result in stagnant water and locations for microbiological growth.

Phase 4 improvements include replacing existing deficient water mains north of the railroad tracks and to the east of 6th Street. It is also proposed to include isolated segments of pipe and mains farther to the north, including some isolated segments of main farther north and near I-80. Service lines will be

replaced to the edge of City right-of-way and meter pits with meters will be installed. This part of the distribution system contains the second oldest pipes in the distribution system.

The final portion (i.e., Phase 5) of the distribution system which is being proposed for replacement are water mains north of the railroad tracks and to the west of 6^{th} Street. Service lines will also be replaced to the edge of City right-of-way and meter pits with meters will be installed.

The transmission main from Spring 2 to the booster pump is also nearing the end of its useful life and is a candidate for replacement. The proposed improvements include 2,000 lf of 12-inch transmission main which would connect to the Spring 1 transmission main just to the west of Willow St. Additionally, the spring outlet and flow gauge would be replaced as well. The need for this project is significantly downgraded due to the fact that the City does not need to rely on Spring 2 water to meet average or peak demands.

3.2.3 Alternative 3: Replace Distribution System with New Water Sources

This project proposes nearly identical improvements to that of Alternative 2 except for completely replacing the headworks facility at Spring 1 and constructing a new groundwater well or spring-based headworks facility at an undisclosed location.

3.3 WASTEWATER SYSTEM ALTERNATIVES CONSIDERED

Alternatives to the proposed project that were considered during the preliminary design phase are described in this section.

3.3.1 Alternative 1: No Action

One option available to the City is to not pursue any improvements to the sewer collection systems or treatment facilities and respond to failures on an as-needed basis. The No Action alternative would not identify any sewer system improvement project on future capital improvement plans and would not set aside specific funding sources for the improvements.

3.3.2 Alternative 2: Replace Collection System + Lift Station + WWTP Projects

This project would include sewer system investigations (e.g., sewer video inspection, inflow + infiltration analysis), replacing approximately 8 miles of the sewer collection system (10, 8, and 6-inch), replace the Oak St. lift station, remove sludge and install new monitoring wells at the wastewater treatment ponds. The project would also include more than 200,000 square feet of asphalt paving and replace sewer laterals for 500 current customers. In general, this project proposes to just over half of the existing sewer collection over an area of about 0.5 square miles. For this alternative, all sewer pipe would be installed via open-trench construction in previously disturbed areas

It is assumed that the City would pursue these improvements in phases for two primary reasons. First, the total costs of these improvements are expected to significantly exceed any capital reserves or annual user fee revenues so a funding plan will need to be developed over a number of years. And finally, some additional investigations are needed to confirm the condition of infrastructure as well as to confirm the design capacity of improvements. For example, if the replacement of Priority 1 pipes reduce total system flows by 20 percent it is reasonable to expect that the design capacity of the Oak Street lift station replacement should also be reduced.

3.3.3 Alternative 3: Replace Collection System + Lift Station + WWTP Projects (Trenchless Construction)

This project alternative proposes to replace the same system components as alternative 1. However, this alternative would replace all failing sewer collection mains with a cured in place pipe (CIPP) inside of existing pipes as opposed to completely replacing all failing pipes with new materials. This method of construction has many benefits, including:

- reduced unit installation costs,
- smaller quantities of asphalt which needs to be replaced,
- pipe segments replaced with jointless, seamless pipes, and
- reduced traffic control costs.

The primary drawbacks to this method of construction is that it requires a "host" pipeline which does not have significant structural flaws or failures and it will be installed in the exact same location and at the same slope as the original pipe. If there is a need to re-align a section of the collection system that would require open-trench construction. An additional drawback is that the lined pipe can only be cleaned in the future with a water-jetting based device as mechanical cable or "snakes" would damage the liner material.

This alternative also proposes to line the City owned portion of each sewer connection and not replace any piping or install any new cleanouts with the improvements. It is also assumed that the City would pursue these improvements in phases for the same reasons listed under alternative 2.

3.4 ALTERNATIVE EVALUATION CRITERIA

The following is the criteria used to measure the effectiveness of alternatives. A no-action alternative would not satisfy any of the criteria.

3.4.1 Health and Safety

The condition description in Section 1.2.1 includes items that could cause water and ground water contamination.

3.4.2 System O&M

Both the sewer and water systems are old and have associated increasing O&M costs.

3.4.3 Energy Efficiency

The existing older pipes leak and allow water to infiltrate the pipelines and eventually require pumping into the wastewater treatment facility. Any reduction in the volume of water entering the Oak St. Lift Station will reduce the amount of energy consumed at the lift station facility.

3.5 ALTERNATIVES ELIMINATED FROM DETAILED CONSIDERATION

3.5.1 Water System

Evaluation of Alternative 1 – No Action

If no action is taken, the system would continue to operate as it currently does. This includes all of the problems listed. For this reason, this alternative is unacceptable.

Evaluation of Alternative 3:

Because the location of the second water source is unknown it is assumed that a suitable location will be found within a one-mile radius of the distribution system. A water import project or bulk supply from another utility is being considered as unviable at this time.

3.5.2 Wastewater System

Evaluation of Alternative 1 – No Action

If no action is taken, the system would continue to operate as it currently does. This includes all of the problems listed. For this reason, this alternative is unacceptable.

Evaluation of Alternative 2:

As little information is known on existing utility locations, pursuing Alternative 2 would add the risk of proposed activities conflicting with existing utilities. When compared to other methods of pipe replacement- such as CIPP - the disadvantages of this alternative become more evident. Some of which include more quantities of asphalt required, increased installation costs, and increased traffic control costs. For these reasons, this alternative is eliminated from this study.

4.0 AFFECTED ENVIRONMENT / ENVIRONMENTAL CONSEQUENCES

4.1 LAND USE/IMPORTANT FARMLAND / FORMALLY CLASSIFIED LANDS

4.1.1 Affected Environment

There are some prime farmland soils at the outer edge of the project area. However, proposed project areas that do have prime farmland soils are located adjacent to roads or railroad alignments. Additionally, these areas will not be impacted due to the subsurface nature of the project elements (piping). There are no unique lands, forest lands, national natural landmarks, wilderness areas, national monuments, or national parks or trails located within the proposed project area. There are no wild and scenic rivers in Nevada. See Section 7.0 for maps and NRCS Soils Report.

In summary, the proposed project will not require any change of use for the land involved and the land use required for the project conforms to the existing land use in the area.

4.1.2 Environmental Consequences

No environmental consequences are anticipated.

4.1.3 Mitigation

No mitigation will be required.

4.2 FLOODPLAINS

4.2.1 Affected Environment

The flood zones for Carlin have been mapped by the Federal Emergency Management Agency (FEMA) and have been designated by the following panel numbers: 32007C5984E, 32007C5985E, 32007C6001E, 32007C6002E, 32007C6003E and 32007C6004E. Areas immediately adjacent to the Humboldt River and tributary creeks are in Zone A, AE, and X. Most developed portions of the City lie outside the flood zones. Some underground water and sewer mains are in flood zones. For reference, the following flood hazard zone designations are provided:

Zone AE and A1-A30: Zones AE and A1-A30 are the flood insurance rate zones corresponding to the 100-year floodplains, determined by detailed methods in the Flood Insurance Study. In most instances, base flood elevations derived from the detailed hydraulic analysis are shown at selected intervals within this zone. Mandatory flood insurance purchase requirements apply.

Zones B, C, and X: Zones B, C, and X are the flood insurance rate zones that correspond to areas outside the 100-year floodplains, areas of 100-year sheet flow flooding where average depths are less than 1 foot, areas of 100-year stream flooding where the contributing drainage area is less than 1 square mile, or areas protected from the 100-year flood by levees. No base flood elevations or depths are shown within this zone.

The FEMA FIRM maps for the Carlin area were issued in September 2013. The FEMA designated flood zone impacts the south side of the City as shown in panel 32007C6003E and 32007C6004E. The flood zone associated with Mary's Creek impacts the west side of town including the water spring collection system as designated in panel 32007C5984E.

See the project area FEMA National Flood Layers in Section 7.0.

4.2.2 Environmental Consequences

No environmental consequences are anticipated. Project elements located in zone AE will be subsurface and will have no effect on the floodplain. Other project element will be in low flood/no flood hazard areas.

4.2.3 Mitigation

No need for mitigation is anticipated.

4.3 WETLANDS

4.3.1 Affected Environment

There are no wetlands within the APE. See the U.S. Fish and Wildlife wetlands maps in Section 7.0.

4.3.2 Environmental Consequences

No environmental consequences are anticipated.

4.3.3 Mitigation

No mitigation will be necessary.

4.4WATER RESOURCES

4.4.1 Affected Environment

The project will have no effect on surface water or groundwater.

The Nevada Bureau of Safe Drinking Water provided the following comments:

"Based on the information provided by Farr West Engineering regarding this project the BSDW does not anticipate any negative environmental impacts to the existing ground water quality from the construction of the project. Please be aware that all vertical and horizontal separation distances between sewer main/laterals and water main/laterals must be maintained in accordance with the Nevada Administrative Code 445A.6715 to 445A.6718 inclusive, "Design, Construction, Operation and Maintenance of Public Water Systems". If compliance with the required separation distances cannot be achieved or is impracticable, the existing water main/lateral shall be protected as described in these sections of NAC 445A. Please be advised that the water improvements must be approved by the BSDW prior to construction."

In addition, permits may be needed from the Bureau of Water Pollution Control to ensure water quality standards are met. A list of potential permits is included in the mitigation section.

The Nevada Department of Environmental Protection (NDEP) requires construction storm water permits under the following conditions:

General Stormwater Permits for Construction Sites are required for projects disturbing at least one acre, or that will disturb less than one (1) acre but are part of a larger common plan for development or sale that will ultimately disturb one (1) or more acres. Although less than an acre will be disturbed at any time, the disturbance will be part of a larger common plan for development and thus will require a storm water permit. NDEP requires that plans and specifications for the replacement utilities will need to be submitted to the Bureau of Safe Drinking Water for review and approval prior to construction.

See Section 6.0 for correspondence with the Nevada Division of Environmental Protection Bureau of Safe Drinking Water.

<u>Sole Source Aquifers</u> According to the U.S. EPA, there are no designated sole source aquifers in Nevada. See EPA Fact Sheet in Section 7.0.

4.4.2 Environmental Consequences

No environmental consequences are anticipated.

4.4.3 Mitigation

Some BMP's may be necessary during construction. These may include but are not limited to dust suppression and straw wattles for the temporary effects due to construction and potential storm runoff. To prevent erosion during and after construction, best management practices such as the following will be implemented during construction depending upon conditions and need:

- Soils and slopes at the site will be assessed,
- existing vegetation will be preserved wherever possible,
- impervious surfaces will be minimized,
- work to minimize exposed soil areas,
- development of a Storm Water Pollution Prevention Plan,
- salvage, stockpile and reuse topsoil,
- install construction entrances and control dust,
- protect soils with vegetation, mulch, and binders,
- use sediment barriers including fiber rolls and silt fence,
- protecting culvert and ditch inlets and outlets,
- manage trash, materials, and supplies,
- project close-out including removing temporary sediment controls and final site stabilization.

The project may be subject to BWPC permitting. Permits are required for discharges to surface waters and groundwaters of the State (Nevada Administrative Code NAC 445A.228). BWPC permits include, but are not limited to, the following:

- Stormwater Industrial General Permit
- De Minimis Discharge General Permit
- Pesticide General Permit
- Drainage Well General Permit
- Temporary Permit for Discharges to Groundwater's of the State
- Working in Waters Permit
- Wastewater Discharge Permits
- Underground Injection Control Permits
- Onsite Sewage Disposal System Permits
- Holding Tank Permits

4.5 BIOLOGICAL RESOURCES

4.5.1 Affected Environment

Consultation was done with the Nevada Department of Conservation and Natural Resources, Nevada Natural Heritage Program (NNHP), Nevada Department of Wildlife (NDOW), and the U.S. Fish and

Wildlife Service (USFWS) Information for Planning and Conservation (IPaC) program. All three programs provided species lists and/or protection/avoidance guidance relating to wildlife that might occur within the project area.

Plants and Animals

The NNHP has developed a list of sensitive animals, plants and lichens. The list gives a brief description of the endangered/threatened status of each species. The program provided the following information for the project area:

"We are pleased to provide the information you requested on endangered, threatened, candidate, and/or At Risk plant and animal taxa recorded within or near the City of Carlin Water and Sewer Improvements Project area in Elko County. We searched our database and maps for the following, a 2 kilometer radius around area provided including:

Township 33N Range 52E Sections 26 and 27

There are no at risk taxa recorded within the given area. However, habitat may be available for: the bigbrown bat, Eptesicus fuscus, a Nevada Bureau of Land Management (BLM) Sensitive Species, the Columbia spotted frog (Great Basin Population) Rana luteiventris pop. 3, a Nevada BLM Sensitive Species; and the pygmy rabbit, Brachylagus idahoensis, a Nevada BLM Sensitive Species. The Nevada Department of Wildlife (NDOW) manages, protects, and restores Nevada's wildlife resources and associated habitat. Please contact Bonnie Weller, NDOW GIS biologist (775) 688-1439 to obtain further information regarding wildlife resources within and near your area of interest. Removal or destruction of state protected flora species requires a special permit from Nevada Division of Forestry (NRS 527.270)."

Lahontan Cutthroat Trout

Consultation with USFWS identified Lahontan Cutthroat Trout within the project area. However, no proposed project work is anticipated to take place within water ways or trout habitat. If any project work is planned for the Lower Maggie Creek Watershed, which is known to include Lahontan Cutthroat Trout, USFWS recommends the conservation measures listed in mitigation.

See Section 7.0 for correspondence with NNHP and Bonnie Weller and Lindsey Lesmeister of NDOW and USFWS.

Weeds

The following summarizes the Nevada Department of Agriculture (NDOA) policy statement regarding noxious weed abatement statutes NRS 555.005-201:

A noxious weed is a plant that has been defined as a pest by law or regulation. In Nevada, if a plant is found to probably be "detrimental or destructive and difficult to control or eradicate" (Nevada Revised

Statute 555.005), the NDOA, with approval of the Board of Agriculture, will designate the plant as a noxious weed.

It is the NDOA's policy to use the "Noxious Weed Tier System" to determine what action is to be taken consistent with existing statutes which include authority for: the promulgation of quarantine, abatement for eradication and/or control; holding and inspecting; establishing weed control districts; and for other regulatory activities. At the time, the NDOA lists a species, it will also give a rating of A, B, or C. These ratings reflect the NDOA's view of the statewide importance of the noxious weed, the likelihood that eradication or control efforts would be successful, and the present distribution of noxious weeds within the state. These lists will be in the Nevada Administrative Code (NAC 555.010).

The following defines the NDOA weed ratings:

"A" Weeds normally limited in distribution throughout the state; actively excluded from the state and actively eradicated wherever found; actively eradicated from nursery stock dealer premises; control required by the state

"B" Weeds more widespread throughout the state; actively excluded where possible, actively eradicated from nursery stock dealer premises; control required by the state in areas where populations are not well established or previously unknown to occur

"C" Weeds generally widespread throughout the state; actively eradicated from nursery stock dealer premises; abatement at the discretion of the state quarantine officer.

Table 3.1 is the NDOA weed list with weeds classified per rating.

Table 3.1 – Weeds occurring in Nevada

	COMMON NAME	SCIENTIFIC NAME
	African Rue	Peganum harmala
	Austrian fieldcress Austrian peaweed	Rorippa austriaca Sphaerophysa salsula / Swainsona salsula
	Camelthorn	Alhagi camelorum
	Common crupina	Crupina vulgaris
	Dalmation Toadflax	Linaria dalmatica
	Dyer's woad	Isatis tinctoria
	Eurasian water-milfoil	Myriophyllum spicatum
	Giant Reed	Arundo donax
	Giant Salvinia	Salvinia molesta
	Goats rue	Galega officinalis
	Houndstongue	Cynoglossum officinale
70	Hydrilla	Hydrilla verticillata
/eeds	Iberian Star thistle	Centaurea iberica
Category A Weeds	Klamath weed	Hypericum perforatum
gory	Leafy spurge	Euphorbia esula
Cate	Malta Star thistle	Centaurea melitensis
	Mayweed chamomile	Anthemis cotula
	Mediterranean sage	Salvia aethiopis
	Purple loosestrife	Lythrum salicaria, L.virgatum and their cultivars
	Purple Star thistle	Centaurea calcitrapa
	Rush skeletonweed	Chondrilla juncea
	Sow Thistle	Sonchus arvensis
	Spotted Knapweed	Centaurea masculosa
	Squarrose star thistle	Centaurea virgata Lam. Var. squarrose
	Sulfur cinquefoil	Potentilla recta
	Syrian Bean Caper	Zygophyllum fabago
	Yellow Starthistle	Centaurea solstiltialis
	Yellow Toadflax	Linaria vulgaris
	Carolina Horse-nettle	Solanum carolinense
SQ.	Diffuse Knapweed	Centaurea diffusa
Veed	Medusahead	Taeniatherum caput-medusae
' B V	Musk Thistle	Carduus nutans
Category B Weeds	Russian Knapweed	Acroptilon repens
Cate	Sahara Mustard	Brassica tournefortii
	Scotch Thistle	Onopordum acanthium
	Section Timotic	5.15 pordain academan

	White Horse-nettle	Solanum elaeagnifolium	
	Black henbane	Hyoscyamus niger	
	Canada Thistle	Cirsium arvense	
spa	Green Fountain grass	Pennisetum setaceum	
C Weeds	Hoary cress	Cardaria draba	
	Johnson grass	Sorghum halepense	
Category	Perennial pepperweed	Lepidium latifolium	
Ca	Poison Hemlock	Conium maculatum	
	Puncture vine	Tribulus terrestris	
	Salt cedar (tamarisk)	Tamarix spp	

4.5.2 Consequences

Although some of the species mentioned in the Natural Heritage Program and/or the NDOW survey may be present within the survey area, the area of potential effect for the project is very narrow, approximately 20 feet wide for the length of the pipeline alignment. Additionally, most of the area has been previously disturbed, including roads, along which a most of the pipelines will be installed.

Regarding weeds, emphasis on development and implementation of best management practices (BMPs) will reduce or eliminate the possibility of environmental consequences.

4.5.3 Mitigation

4.5.3.1 Wildlife

Animals

Lahontan Cutthroat Trout

It is not anticipated that Lahontan Cutthroat Trout will be affected by construction since the construction will take place along existing roadways areas. If any project work occurs in the Lower Maggie Creek Watershed, which is known to include Lahontan Cutthroat Trout, USFWS recommends the following conservation measures:

- 1. Clean and Maintain Equipment
- 2. Control Invasive Species

- 3. Implement Erosion Control Measures
- 4. Implement Siting Restrictions
- 5. Implement Wildlife Passage Measures
- 6. Implement a spill protection plan
- 7. Institute Refueling Restrictions
- 8. Institute Seasonal Avoidance Measures
- 9. Restrictions on In-Water Work
- 10. Restrictions on Off-Road Travel
- 11. Use appropriate Survey Protocols
- 12. Use Known Sources of Fill Material

Birds

It is not anticipated that the raptor nests will be affected by construction since the construction will take place within streets and road shoulders however, NDOW has provided the following recommendations relating to the protection of birds that might occur within the project area:

"We recommend avoiding vegetation removal activities outside the migratory bird breeding season (passerines: April 15 – July 15; raptors Feb. 1 – Aug). If conducting vegetation disturbance activities during this time, we recommend that a qualified biologist survey for bird breeding behavior within 10 days of the disturbance. If breeding behavior is detected, please apply appropriate non-disturbance buffer or contact NDOW or FWS for further direction."

Greater Sage-Grouse

According to NDOW, there is no known greater sage-grouse habitat in the vicinity of the project area.

Big Game

Occupied elk, mule deer, and pronghorn antelope distributions exist within portions of the project area and four-mile buffer area. No known occupied bighorn sheep distribution exists in the vicinity of the project area.

The project will move relatively slow and the equipment used is very slow moving. It is anticipated that the noise associated with the construction should provide sufficient warning to big game in the area. Additionally, most of the project will occur within the City where there is little or no wildlife habitat.

Some mitigation may be required to prevent the spread of invasive weeds during and after construction of the proposed project. Mitigation may include the creation of a weed prevention plan to be implemented by the contractor. The plan should include provisions like the following:

- Identify and flag all noxious and invasive weed populations present in the project area,
- Treat or contain any weed populations that may be impacted or disturbed by construction activity,
- Provide training to construction workers and equipment operators on the identification of weeds to be avoided.
- Certify that all construction material sources are weed-free,
- Minimize ground disturbance and vegetation removal as much as possible and practical,
- Re-vegetate or otherwise prevent the establishment of weeds in all areas of the job site.

4.6 HISTORIC AND CULTURAL PROPERTIES

4.6.1 Affected Environment

Consultation with SHPO was initiated under Section 106 of the National Historic Preservation Act of 1966 (NHPA) for the City of Carlin Water and Sewer Improvements Project. The SHPO checked NVCRIS on behalf of NDEP, records show that no portions of the APE have been inventoried, and no archeological sites have been documented within the APE. THE SHPO does not recommend any additional archeological inventory for this undertaking due to low potential for significant archeological sites within the APE.

The SHPO requests that NDEP indicate whether the water system shall be evaluated for National Register of Historical Places (NRHP) eligibility. If the water and sewer systems have a significant alteration that might render them not eligible for NRHP listing, a description of the alterations and statement regarding the integrity of the systems must be submitted.

The SHPO notes that consultation with Native American Tribes that are affected, the general public and other potentially interested groups has not been submitted. Assistance from the lead agency will be required to complete these consultation in accordance with the NHPA.

Table 3.2 shows National and State Register of Historical Places (NRHP and SRHP) resources in Elko County.

TABLE 3.2 – National and State Listed Historical Sites in Elko County

Resource	Location	NRHP	SRHP
Commercial Hotel	345 4 th St., Elko		X
Henderson Bank Building	404 Railroad St., Elko		X
Ruby Valley Pony Express Station	1515 Idaho St., Elko	X	X
Skelton Hotel	Jiggs Star Route, Jiggs		X
Midas Schoolhouse	Second St., two blks east of Main St., Midas	X	X
Metropolis Dam	10.5 miles north of Wells, NV, Melandco		X
Elko County Courthouse	571 Idaho St., Elko	X	
US Post Office-Elko Main	275 Third, Elko	X	
Lamoille Organization Camp	Rt. Fork of Lamoille Creek, end of FS Rd. 122	X	
Gold Creek Ranger Station	E of Mountain City, Humboldt NF	X	

4.6.2 Environmental Consequences

Of the historical resources listed in the NRHP and SRHP, none of the historic properties are present in the project area. There are approximately 1,122 properties within the area of potential effect (APE) that are 50 of age or older.

See SHPO correspondence in Section 6.0.

4.6.3 Mitigation

It is anticipated that none of the properties are within the APE. Each of the project APEs are narrow and limited to the existing roadways and rights of way and on previously disturbed lands. No mitigation is expected to be required.

However, should an archaeological inventory of the direct APE indicate additional mitigation to protect cultural resources exit., mitigation options will be assessed, which may include but are not limited to archeologist consultation, notification of all state and Federal Agencies involved in the project, and compliance with NRS Chapter 383 in the case of inadvertent discovery of cultural resources.

Potential impact(s) that could occur because of project elements would be the inadvertent discovery of possible archeological materials. If that occurs, the following protocols would be observed:

- All work will stop immediately in the vicinity of the find,
- the area will be secured and protected,
- the project inspector will be notified,
- SHPO will be notified.
- if human remains are encountered, the City of Carlin Police Department, Commission on Indian Services (CIS), Tribes, and BLM will also be notified,
- no work may resume until SHPO and BLM Archaeology staff are on-site and able to assess the situation and clear the site for continuation of construction activities.

4.7AESTHETICS

4.7.1 Affected Environment

The project will be subsurface, with the exceptions of hydrants. Regarding the subsurface elements, all the project trenches will be backfilled and graded to the existing grade. Additionally, the disturbed areas will be reseeded where needed. It is not anticipated that the project will lasting aesthetic effect since the project area will be returned to the pre-project condition.

4.7.2 Environmental Consequences

No environmental consequences are anticipated for the project.

4.7.3 Mitigation

No environmental consequences are anticipated for the project.

4.8AIR QUALITY

4.8.1 Affected Environment

The proposed project will disturb approximately 24.0 total acres. Equipment emissions will have temporary effect on air quality during construction. Table 3.4 shows equipment and vehicles that potentially could be used during the project. Note that generally no more than three of these is in operation at the same time. Dust generated by project activity is also expected to be minimal. This is because the amount of soil being disturbed at any time will be approximately less than 1/10 of an acre and will be accompanied by dust suppression activities. The project conforms to the EPA-approved State Implementation Plan (SIP) per the Nevada Department of Conservation and Natural Resources, Division of Environmental Protection.

See Section 6 for correspondence.

Table 3.4 – Examples of equipment to be used on project

1) Loader
2) Mini Excavator
3) 10 Wheel (haul truck)
4) Double Drum Vibratory Roller
5) Motor Grader
7) Fuel Truck

4.8.2 Environmental Consequences

No environmental consequences are anticipated.

4.8.3 Mitigation

Mitigation will include the watering of fugitive dust. If a disturbance of 5 acres or more is anticipated, a surface area disturbance permit from the Bureau of Water Pollution Control may be necessary. Surface disturbance of 5 acres is not anticipated for the proposed project.

See Section 6 for Correspondence with BSDW.

4.9SOCIO-ECONOMIC IMPACT ASSESSMENT / ENVIRONMENTAL JUSTICE

4.9.1 Affected Environment

The proposed project includes the replacement of existing deteriorated water distribution lines and appurtenances. The project will benefit the entire community and will have no disproportionately high or adverse human health or environmental effects to minority or low-income populations.

The socio-economic make-up of the area will not be affected. No part of the project will require a land use change. With few exceptions, new proposed pipelines will be installed in the alignments of the existing lines or road shoulders. Some new right-of-way's may need to be obtained from private property owners, and/or Nevada Department of Transportation.

4.9.2 Environmental Consequences

No environmental consequences are anticipated.

4.9.3 Mitigation

No mitigation will be required.

4.10 NOISE

4.10.1 Affected Environment

Except for the construction activities none of the alternatives are expected to cause long term noise problems. The only anticipated noise will be related to construction activities.

4.10.2 Environmental Consequences

No environmental consequences are anticipated.

4.10.3 Mitigation

The following practices will be observed during construction:

- 1. Construction activities will be done during normal working hours between 7:00 am and 5:00 pm.
- 2. Quieter methods or equipment will be used when possible
- 3. All equipment will be required to have efficient mufflers
- 4. Only equipment of necessary size and power will be used
- 5. All equipment will be properly lubricated and well maintained.

4.11 TRANSPORTATION

4.11.1 Affected Environment

Most of the pipeline will be installed along road shoulders.

4.11.2 Environmental Consequences

No environmental consequences are anticipated.

4.11.3 Mitigation

If the usable roadway is not sufficient to safely accommodate two-way traffic, one-way traffic will be maintained. Work will be conducted in such a manner as to obstruct and inconvenience traffic as little as possible. Existing travel roads and streets adjacent to or within the limits of the improvement will be kept open and in a good, dust free and safe condition for traffic at all times. Work will be performed in a manner to assure full compliance with all applicable Federal, State and local laws and regulations governing safety, health and sanitation. Adequate safeguards, safety devices, and protective equipment will be provided to conform to the MUTCD. Safe, temporary access to business and residence driveways will be provided by temporary intersections, and temporary connections with roads, streets, bikeways, sidewalks, and footpaths.

4.12 HUMAN HEALTH AND SAFETY

4.12.1 Electromagnetic Fields and Interference

4.12.1.1 Affected Environment

There are no electrical elements included in this project

4.12.1.2 Environmental Consequences

No environmental consequences are anticipated.

4.12.1.3 Mitigation

No mitigation will be required.

4.12.2 Environmental Risk Management

4.12.2.1 Affected Environment

The proposed project may include the replacement of non-friable asbestos cement pipe. The pipe will not be removed from the ground during construction however some of the pipe will be exposed to tie into the existing system.

The only hazardous material that will be present in the construction area will be equipment fuel and lubrication.

4.12.2.2 Environmental Consequences

No environmental consequences are anticipated.

4.12.2.3 Mitigation

Any asbestos pipe that needs to be removed from the ground will be disposed of per EPA and OSHA requirements.

4.13 CORRIDOR ANALYSIS

4.13.1 Affected Environment

It is anticipated that most of the proposed pipeline elements of the project will be constructed within existing road alignments. If necessary, some pipe may need to be installed by pipe bursting or directional boring.

4.13.2 Environmental Consequences

No environmental consequences are anticipated.

4.13.3 Mitigation

No mitigation will be necessary.

5.0 CUMMULATIVE EFFECTS

Table 4.1 – Summary of Cumulative Effects

Resource	Past Actions	Present Actions	Proposed Action	Future Actions	Cumulative Effect
Land Use	No change in land use	No change in land use	No change in land use	Slight increase in system size	None anticipated
Floodplains	No effect	No effect	Little or no effect	Slight increase in system size	None anticipated
Wetlands	Not Applicable	Not Applicable	Not Applicable	Slight increase in system size	Not Applicable
Water Resources	No effect on water resources	No effect on water resources	More efficient use of water resources	Slight increase in system size	None anticipated
Coastal Resources	Not Applicable	Not Applicable	Not Applicable	Slight increase in system size	Not Applicable
Biological Resources	No effect	No effect	No anticipated effect	Slight increase in system size	None anticipated
Historic and Cultural Properties	No effect	No effect	No anticipated effect	Slight increase in system size	None anticipated
Aesthetics	No effect	No effect	No anticipated effect	Slight increase in system size	None anticipated
Air Quality	No effect	No effect	Temporary effects	Slight increase in system size	None anticipated
Socio-Econ/Environmental Justice	No effect	No effect	No effect	Slight increase in system size	None anticipated
Miscellaneous (Noise and Transportation)	No effect	No effect	Temporary effects	Slight increase in system size	None anticipated
Human Health and Safety (Electromagnetic, Environmental Risk	Asbestos pipe used	No Effect	Replace asbestos pipe	Slight increase in system size	None anticipated
Corridor Analysis	Water lines were installed next to roads	No Effect	New pipe installed within existing road alignments	Little or no increase in system size	None anticipated

6.0 SUMMARY OF MITIGATION

Some mitigation may be required for the following:

• Water Resources: BMP's and Permitting

• Wildlife: Weeds/Invasive Species

• Historic and Cultural resources: inadvertent discovery

• Air Quality: Fugitive dust

Noise

Transportation

Other than those items listed above, no potentially significant environmental impacts were discovered during the environmental investigation for this project. Therefore, standard construction practices and permitting should be sufficient to protect the affected environment. These practices include halt and notify provisions for the discovery of historic artifacts, limits on hours of operation and noise, air, and traffic abatement procedures.

7.0 COORDINATION, CONSULTATION, AND CORRESPONDENCE

This section includes correspondence from the following State and Federal entities:

- Nevada State Historic Preservation Office
- U.S. Fish and Wildlife Service
- Nevada Division of Environmental Protection, Safe Drinking Water
- Nevada Division of Environmental Protection, Division of Clean Air
- Nevada Division of Environmental Protection, Bureau of Water Pollution Control
- Nevada Natural Heritage Program
- Nevada Dept. of Conservation and Natural Resources, State Engineer
- Nevada Department of Wildlife
- Nevada State Clearing House

Notes:

- 1. Letters sent to the above agencies included a copy of the project area map and project description.
- **2.** Comments provided by John Nelson of USDA on September 7, 2018 are as follows and incorporated here in as noted below:

Comment 1: p3 (Original document): invasive species prevention is now added to biological resources, see p3 of updated document

Comment 2: p13 (Original document): invasive species conservation measures now included in mitigation See p14 of updated document

Comment 4: p15 (Original document): mitigation for historic properties is now included for unanticipated resources See p17 of updated document

Comment 5: p15 (Original document): Was NVCRIS contacted? See p15-16 of updated document

Comment 6: p65 (Original PER): table for construction mitigation has been added to the PER. See p9-11 for construction related mitigation

NEVADA STATE HISTORIC PRESERVATION OFFICE Recommended Coversheet for Section 106 Review

If you find this document helpful in preparing a submission document, please include this with your submission. Please type and double clip on the check boxes. Due to limited resources and the requirements of federal regulation, we are unable to accept this application electronically.

I. GENERAL INFORMATION

☐ THIS IS A NEW SUBMITTAL	
☐ THIS IS MORE INFORMATION RELATING TO UT# Click or tap here to	enter text.

- a. Project Name: City of Carlin Sewer and Water System Improvements
- b. Project Address and APN (if available): Various Locations within the City of Carlin
- c. County: Elko
- d. Federal Agency, Contact Name and Mailing Address (If you do not know the federal agency involved in your project please contact the party requiring you to apply for Section 106 review, not the SHPO, for this information.). N/A
- e. State Agency (if applicable), Contact Name and Mailing Address: Michelle Stamates, 901 So. Stewart Street, Suite 4001, Carson City 89701
- f. Consultant or Applicant Contact Information (if applicable) including mailing address.

 Farr West Engineering, 5510 Longley Lane, Reno Ph# 775-853-7265, email: danny@farrwestengineering.com
- g. Exact project location map should be submitted. Please see our website for further mapping information: nvshpo.org/review-compliance/guidelines.html.
 - 1. 7.5' USGS Quad Map Name: Carlin East, Nevada
 - 2. Township: T33N Range: R52E. Section: W ½ Sec 26, Sec 27

II. PROJECT WORK DESCRIPTION AND AREA OF POTENTIAL EFFECTS (APE) Note: Every project has an APE.

- a. Provide a detailed written description of the project (plans, specifications, Environmental Impact Statements (EIS), Environmental Assessments (EA), etc. can be included with the written description): The project includes the replacement of the existing water and sewer piping system within the City of Carlin. All of the piping to be replaced is within existing right-ofways.
- b. Provide a localized map indicating the location of the project; road names must be included and legible. **See attached**
- c. On the above-mentioned map, identify the APE. See attached
- d. Provide a written description of the APE (physical, visual, auditory, and atmospheric), the steps taken to identify the APE, and the justification for the boundaries chosen. Please consider the height of the proposed undertaking when determining this area. The APE was determined by the location of existing piping. The installation of the new pipe will take place within the alignment of the existing pipes.

III. GROUND DISTURBING ACTIVITY (INCLUDING EXCAVATION, GRADING, TREE REMOVALS, UTILITY INSTALLATION, CONSTRUCTION, ETC.)

DOES THIS PROJECT INVOLVE GROUND-DISTURBING ACTIVITY? YES \boxtimes NO \square (If no, proceed to section IV.)

- a. Description of width, length and depth of proposed ground disturbing activity (please include all associated disturbances (access roads, laydown areas, etc): Ground disturbance includes trenches approximately 210,134 long x 4 feet wide x 4 feet deep..
- b. Previous land use and disturbances: The previous land use is city streets and residential and commercial structures. Previous disturbances included residential and commercial construction as well as utility and road installation. The proposed project will not change the land use.
- Current land use and conditions: Current land uses include city streets, residential and commercial structures.
- d. Does the landowner know of any archaeological resources found on the property?
 - 1. Please describe: No

IV. IDENTIFICATION OF HISTORIC PROPERTIES

- a. List and date all resources (buildings, structures, objects, archaeological sites) 50 years of age or older located in the APE: See attached list.
- b. List all resources currently listed in the National Register of Historic Places (NRHP) or currently designated under a local preservation ordinance. (If the resource is located within a NRHP-listed or local historic district it is only necessary to identify the district): None found
- c. List all resources previously determined eligible for NRHP listing (see "Instructions for Application for Section 106 Review" on the SHPO website): None that we are aware of

	for Sec	ction 106 Review" on the SHPO website): None that we are aware of
d.	Is the A	APE for the undertaking within the jurisdiction of a Certified Local Government?
		or appropriate staff representative.
		☐ No – no further documentation necessary.
e.	Identify	whether or not any previously unevaluated resources in the APE are eligible for NRHP
	listing.	
		☐ The identification process included seeking information, as appropriate, from Indian
		tribes, local governments, the general public, and any individuals or organizations that may
		have an interest in, or knowledge of, the historic properties in the area (attach
		documentation).
		The identification and evaluation of historic resources was performed by a Secretary of
		the Interior-qualified professional (attach qualifications).
	a.	Describe the steps taken to identify whether or not the APE contains previously unevaluated
		NRHP-eligible resources:
		Consulted with Carlin City Manager
f.	Based	on the information contained in "b", please choose one:
		Historic Properties Present in the APE

g. Describe the condition, previous disturbance to, and history of any historic properties located in the

No Historic Properties Present in the APE

APE: N/A

V. PHOTOGRAPHS

Note: All photographs should be keyed to a map.

a. Provide photographs of the project area itself.

b. Provide photographs of all resources 50 years of age or older located in the APE. Digital images or clear photocopies are acceptable. Nearly the entire town is 50 years old. See attached list. It would be impractical for this project to photograph all of the resources that are 50+ years old.

VI. DETERMINATION OF EFFECT Based on the above information, please choose one.

	No historic properties affected based on [36 CFR \S 800.4(d)(1)], please provide the justification for this determination.
	No Adverse Effect [36 CFR § 800.5(b)] on historic properties, explain why the criteria of adverse effect, 36 CFR Part 800.5(a)(1), were found not applicable.
or incorporation or incorporation of the incorporat	liverse effects are anticipated because the undertaking will not alter, directly directly, any of the characteristics of a historic property that qualify the erty for inclusion in the National Register in a manner that would diminish tegrity of the property's location, design, setting, materials, workmanship, g, or association. The undertaking will disturb streets but will not involve tures. It should be noted that no properties have been identified as fying for the National or State registers.

Please print and mail completed form and any additional information to:

adverse effect, [36 CFR Part 800.5(a)(1)], were found applicable.

Adverse Effect [36 CFR § 800.5(d)(2)] on historic properties, explain why the criteria of

Nevada State Historic Preservation Office 901 S. Stewart Street, Suite 5004 Carson City, Nevada 89701-5248



CITY OF CARLIN

151 S. 8th Street PO Box 787 Carlin, Nevada 89822 775-754-6354 775-754-6912 FAX www.cityofcarlin.com

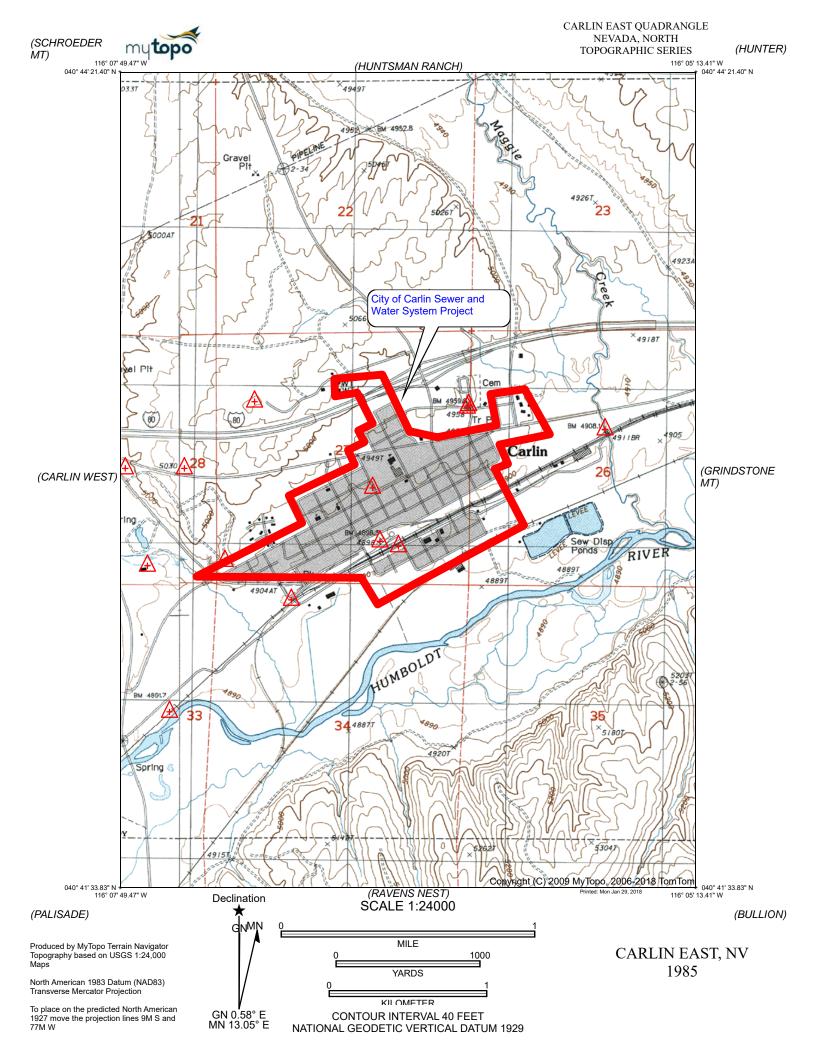
To Whom it may Concern,

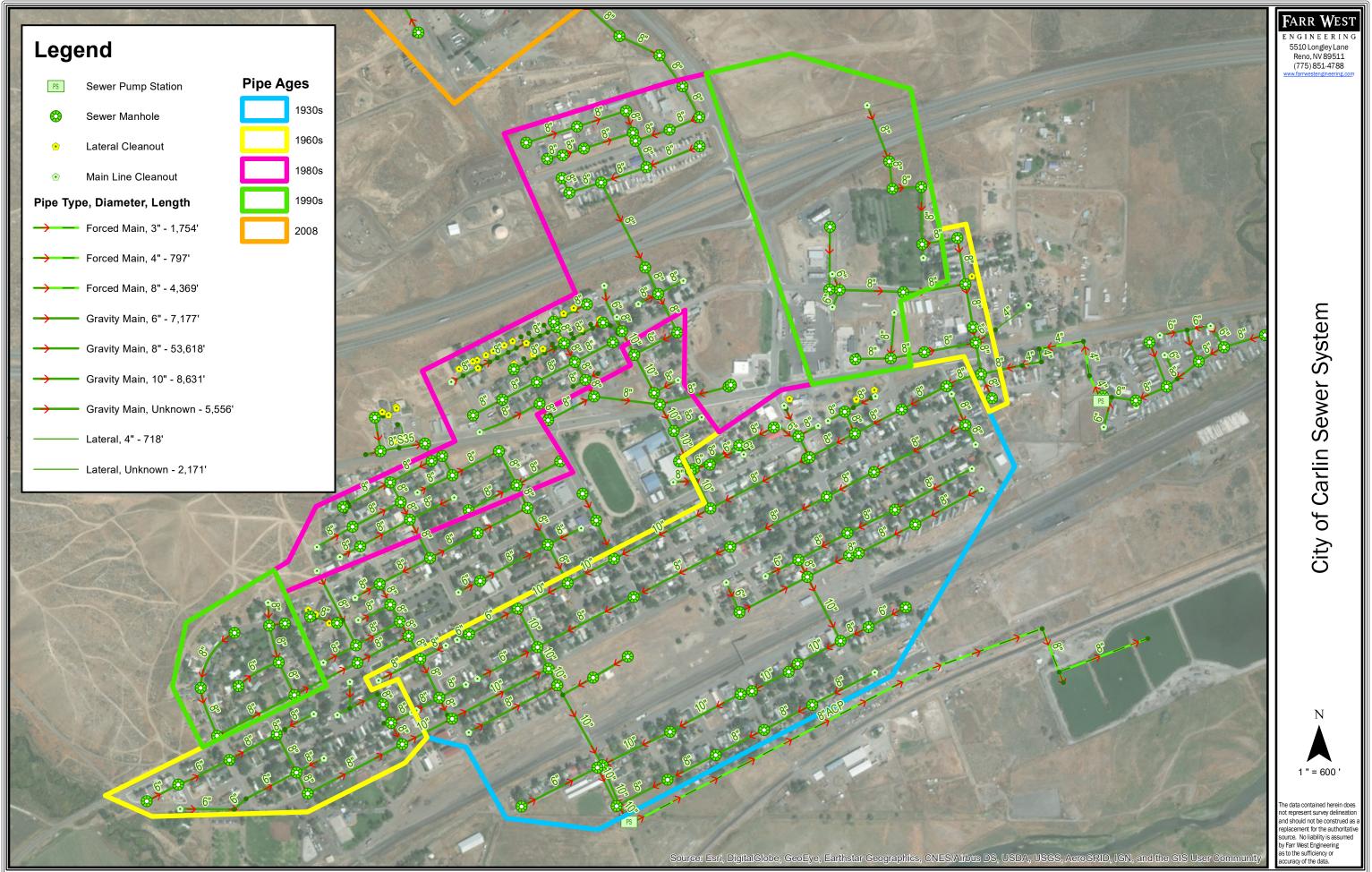
At this current time the City of Carlin has no concerns about historical structures in the City limits of Carlin.

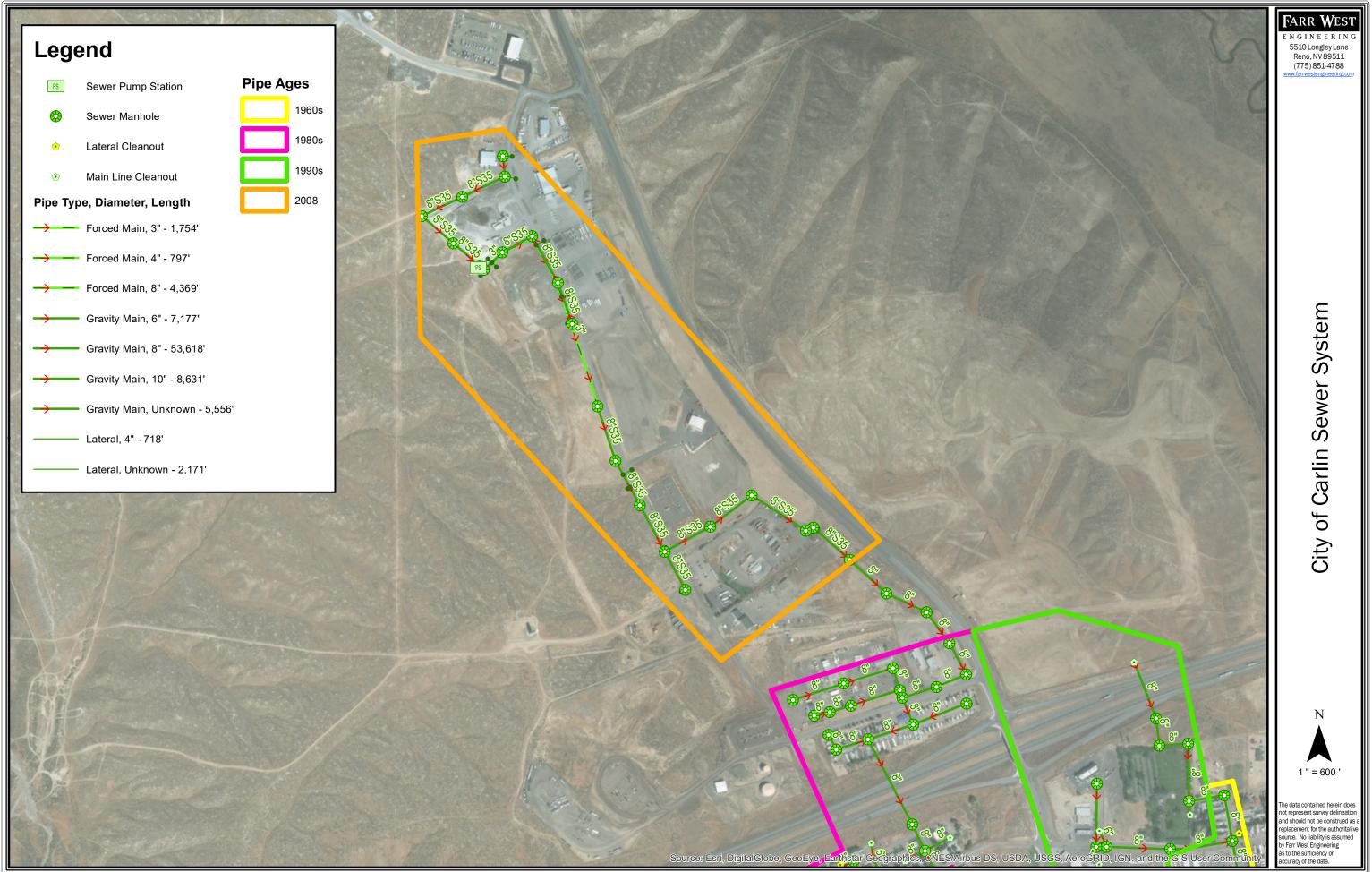
Sincerely,

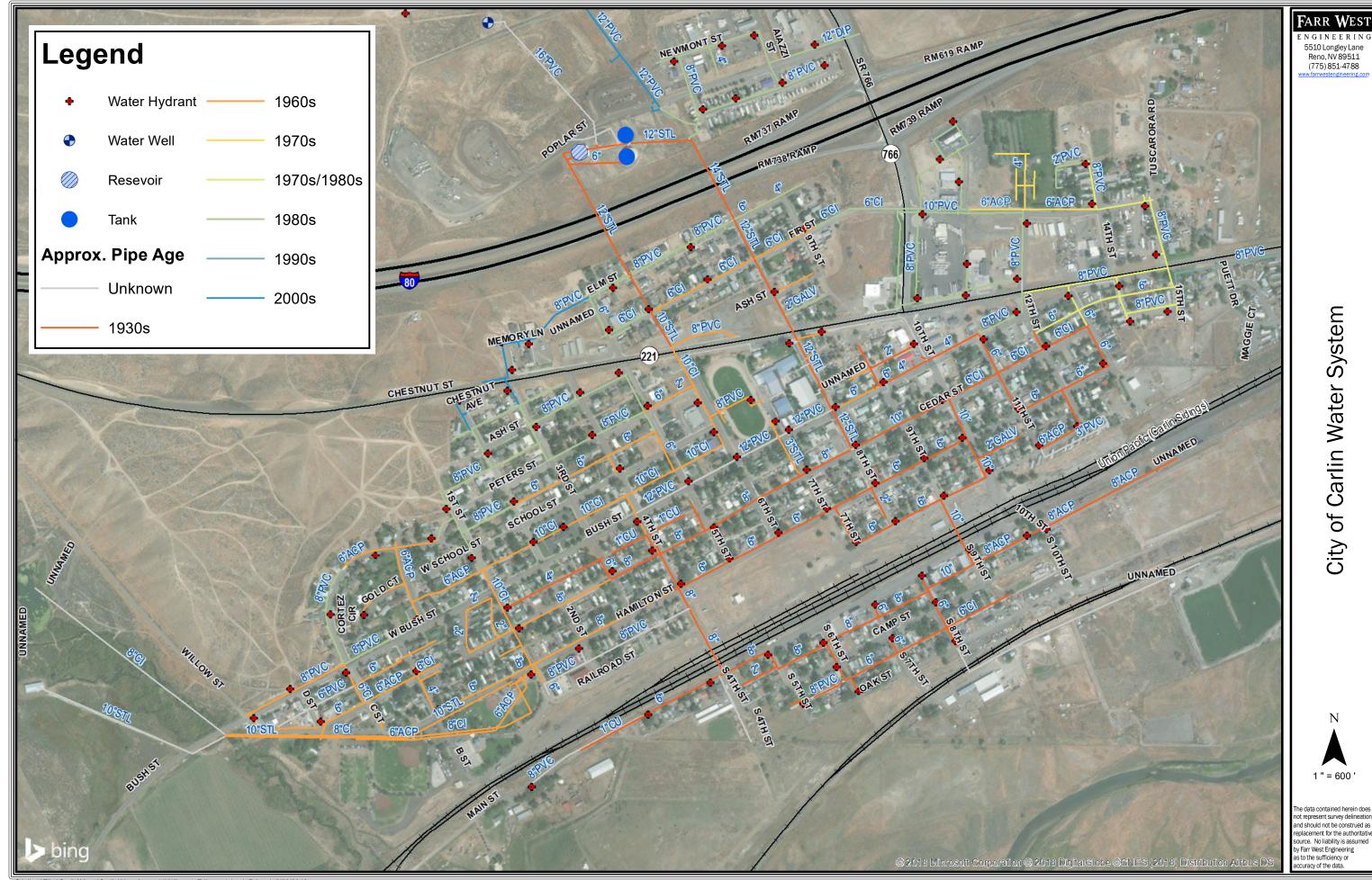
David Jones

Carlin, City Manager











Department of Conservation and Natural Resources

Brian Sandoval, Governor Kay Scherer, Interim Director Rebecca L. Palmer, SHPO

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May 1, 2018

Michelle Stamates, P.E. Bureau of Administrative Services Nevada Division of Environmental Protection 901 S. Stewart Street, Ste 4001 Carson City, NV 89701

Re: Section 106 consultation with the Nevada Division of Environmental Protection for the City of Carlin Sewer and Water System Improvements project, Carlin, Elko County, Nevada (UT 2018-5345)

Dear Ms. Stamates,

The Nevada State Historic Preservation Office (SHPO) has reviewed the subject documents received April 2, 2018 in accordance with Section 106 of the National Historic Preservation Act (NHPA) of 1966, as amended. The Nevada Division of Environmental Protection (NDEP) is coordinating this review on behalf of the U.S. Environmental Protection Agency.

Project Description

NDEP proposes to replace the sewer and water piping system in the City of Carlin. All work will occur within existing right-of-ways.

Area of Potential Effect (APE)

NDEP has defined the APE as an area approximately 480 acres in size that encompasses all streets where pipe replacement will occur, plus a buffer to include the parcels along those streets. The SHPO concurs with the adequacy of the APE for this undertaking.

Identification of Historic Properties

Archaeology:

The SHPO checked the Nevada Cultural Resources Inventory System (NVCRIS) on behalf of NDEP to identify historic properties, such as previously identified archaeological sites, within the APE. According to these records, portions of the APE have been inventoried for archaeological properties and no archaeological sites have been documented within the APE. However, numerous sites are within a 1-mile buffer of the APE. According to subject documents provided the APE is disturbed by development in the area. Thus, the SHPO would not recommend any additional archaeological inventory for this undertaking as there is a low potential for significant archaeological sites within the APE.

In the future, NVCRIS should be checked prior to any Section 106 submission as part of the identification effort for a federal undertaking. This records check is done via Ms. Annie Hershey the program coordinator for NVCRIS at (775) 684-3441 or via email at ahershey@shpo.nv.gov.

Architecture:

The existing water and sewer systems have not been identified and evaluated for National Register of Historic Places (NRHP) eligibility. What are the construction dates of the water and sewer systems? If they are 50 years of age or older, please indicate if NDEP wishes to evaluate them for NRHP eligibility. If

901 S. Stewart Street, Suite 5004 → Carson City, Nevada 89701 → Phone: 775.684.3448 Fax: 775.684.3442

Michelle Stamates, P.E. Page **2** of **2** May 1, 2018

the water and sewer systems have significant alterations that might render then *not eligible* for NRHP listing, please submit a description of alterations and a statement regarding the systems' overall integrity. The SHPO recommends using color-coded maps to depict the ages of the various system components.

The submitted materials includes a list of properties in Carlin that are 50 years or older. It is not clear which of these properties are located within the APE for this undertaking. Please submit:

- A list of all properties 50 years or older within the APE;
- A total count for how many properties 50 years or older are within the APE; and
- A statement regarding if NDEP intends to leave the (X number of) historic-age properties in the APE unevaluated and treat them as NRHP-eligible for the purposes of this undertaking.

Local Government Consultation

The SHPO acknowledges receipt of documentation that consultation with the affected local government has been completed. This consultation did not result in the identification of properties of historic or cultural significance that could be affected by the proposed undertaking.

Consultation with Tribes and Other Interested Parties

The SHPO has not received documentation that coordination with the affected Native American tribes, the general public, or other potentially-interested groups has occurred. Please submit documentation detailing your efforts in this regard, and indicate whether the consultation resulted in the identification of properties of religious, cultural, or historic significance that could be affected by the undertaking.

Determination of Effect

The SHPO will resume its review of project effect upon receipt of the above-described additional information regarding the consultation and identification efforts and the evaluation of historic-age resources.

Should you have questions concerning this correspondence, please contact SHPO staff archaeologist Ashley Wiley at (775) 684-3450 or by email at awiley@shpo.nv.gov or staff architectural historian Kristen Brown at (775) 684-3439 or by email at knbrown@shpo.nv.gov.

Sincerely,

Robin K. Reed

Deputy State Historic Preservation Officer

23599



May 21, 2018

Robin K. Reed Deputy State Historic Preservation Officer State Historic Preservation Office 901 S. Stewart Street, Suite 5004 Carson City, Nevada 89701

RE: SECTION 106 CONSULTATION FOR THE CITY OF CARLIN WATER AND SEWER IMPROVEMENTS PROJECT (UT-2018-5345)

Dear Robin.

This letter is in response to your letter dated May 1, 2018. The following addresses your concerns point-by-point (in bold):

Construction dates of water and sewer lines.

Maps showing the age of all water and sewer lines are attached.

• List of all properties 50 years or older within APE.

All of the properties shown in yellow on the attached list are located within the APE.

• Total count for how many properties 50 years or older are within the APE.

The total number of properties within the APE is 1,122. They are shown in yellow on the attached list.

• Statement from NDEP regarding evaluation of historic age properties within the APE.

NDEP will need to submit this item.

• Consultation with Tribes.

The following Tribes/entities may have an interest in the project and require consultation, however, we are unable to consult directly with the tribes. NDEP and/or USDA will need to provide the results of consultation to SHPO.

Te-Moak Tribe of Western Shoshone	Battle Mountain Band Council (18)
525 Sunset Street	37 Mountain View Drive #C
Elko, Nevada 89801	Battle Mountain, Nevada 89820
Phone: (775) 738-9251	Phone: (775) 635-2004
Fax: (775) 738-2345	Fax: (775) 635-8016
www.temoaktribe.com	. ,
Elko Band Council (19)	South Fork Band Council (20,21)
1745 Silver Eagle Dr	H.C. 30 Box B-13
Elko, Nevada 89801	Spring Creek, Nevada 89815
Phone: (775) 738-8889	Phone: (775) 744-4273
Fax: (775) 753-5439	Fax: (775) 744-4523
Bureau of Indian Affairs	Inter-Tribal Council of Nevada
Eastern Nevada Agency	680 Greenbrae Drive, Suite 280
1555 Shoshone Circle	Sparks, Nevada 89431
Elko, NV 89801	Phone: (775) 355-0600
Phone: (775) 738-5165	Fax: (775) 355-0648
	www.itcn.org

• Consultation with general public or other interested groups.

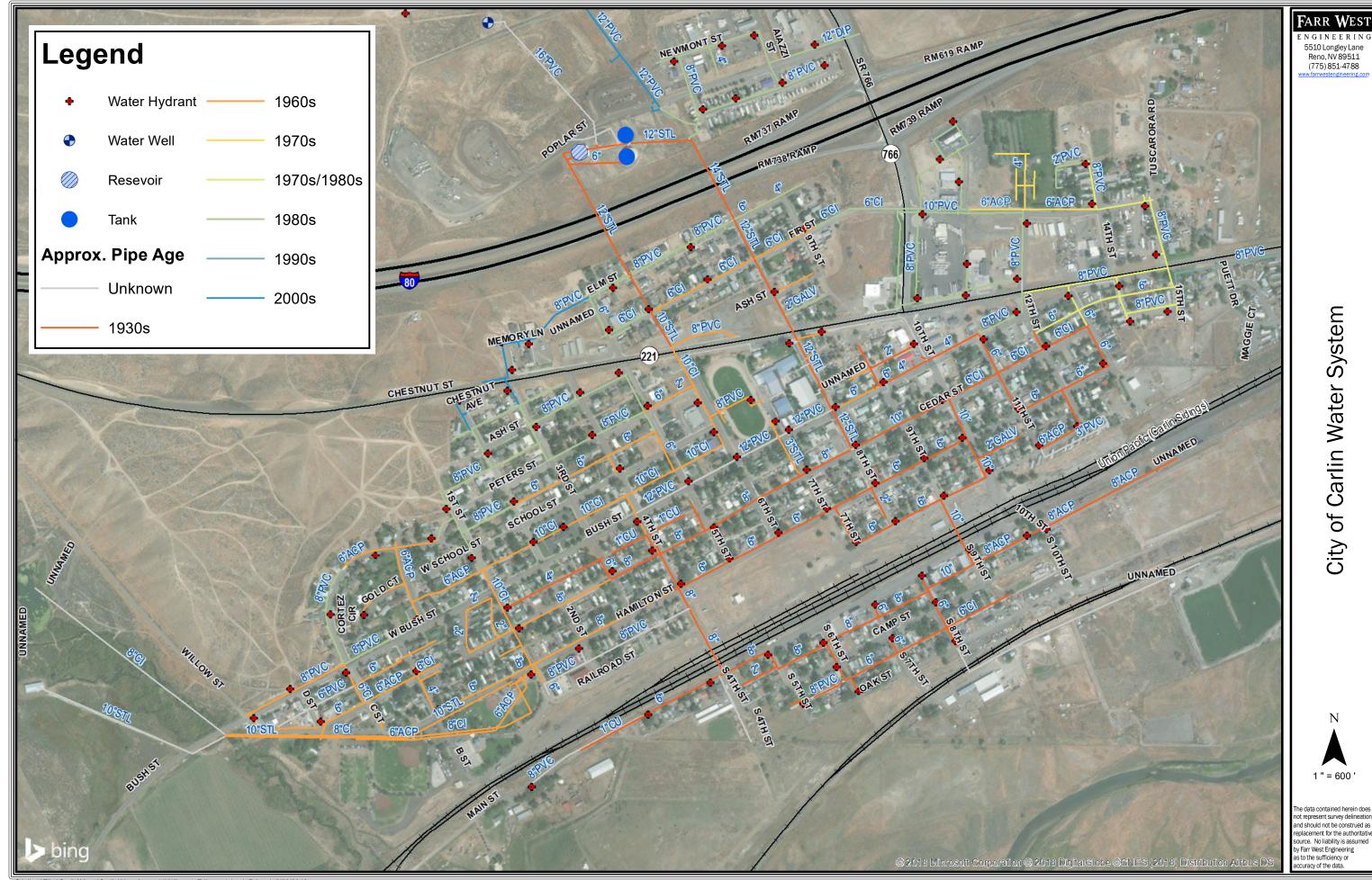
Public notification will be completed prior to approval of the environmental assessment. The public will have access to environmental assessment including all maps and descriptions of the proposed project.

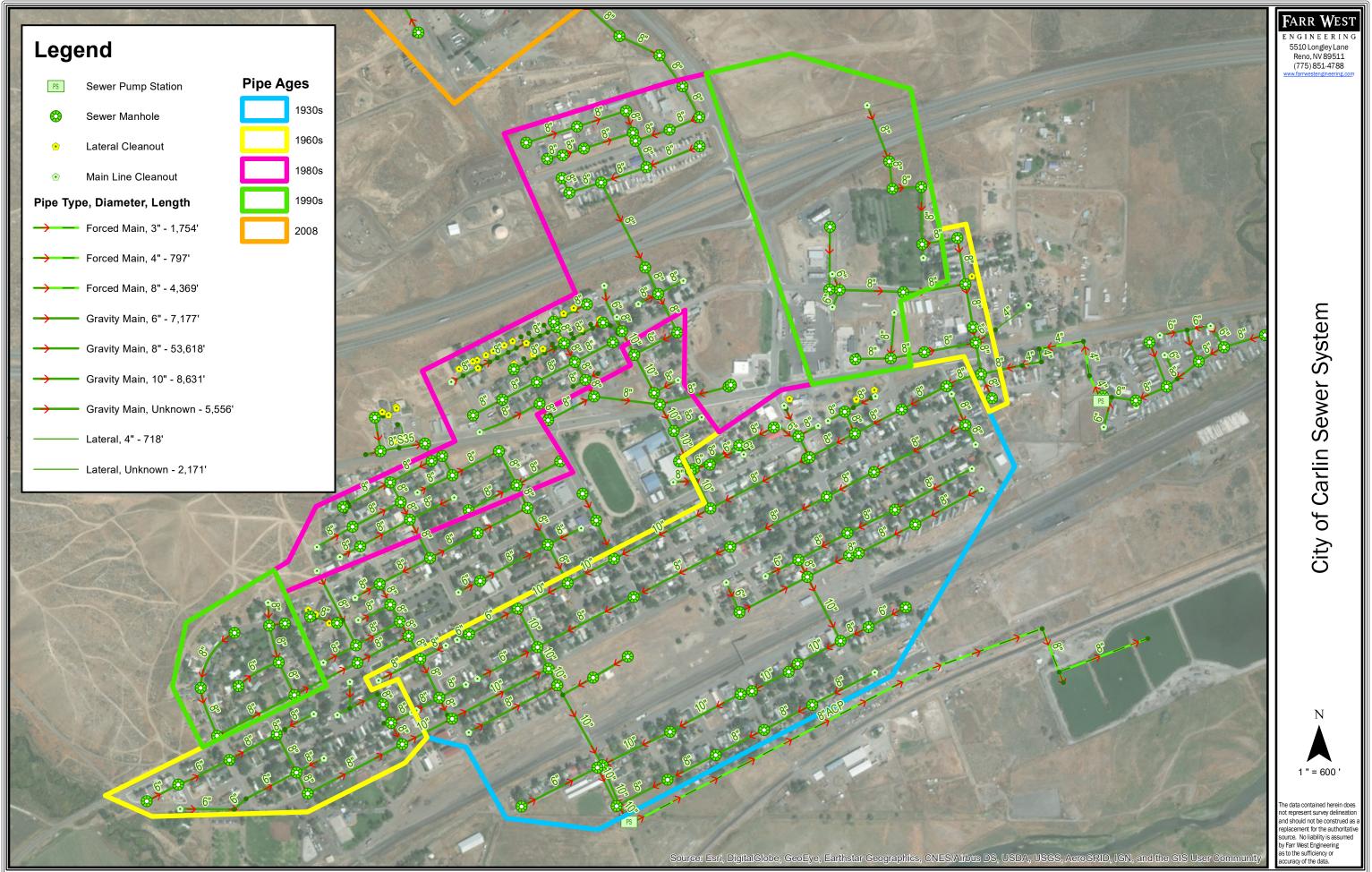
Please contact me with any additional questions you may have. I can be reached at (775) 853-7265.

Regards,

Danny Sommers Project Manager

Encl.: cc:





APN	Loc #	Loc Dir	Location or Street	DESCRIPTION	YR BUILT	MCCARTY, BRETT D GATES, DAVID M ET AL GATES, DAVID M ET AL DEXTER, MIKE NETHERY, SHIRLEY M NETHERY, SHIRLEY M NETHERY, SHIRLEY M DICKEY, JAMES E DICKEY, JAMES E DICKEY, JAMES E DICKEY, JAMES D GRAVES, GARREY L & LEONA M TR BENNETT, JAMES D ET AL ROGERS, NATHAN A ROGERS, NATHAN A CLUFF, DANNY J GRAVES, DAVID L & MICHELLINE M GILLESPIE, JOE E & CHERI A POE, GENE N TR WARREN, JOSHUA WARRE
002010050	502		ELM ST	SINGLE FAMILY RES.	1965	MCCARTY, BRETT D
002010050	502		ELM ST	CFW	1965	MCCARTY, BRETT D
002010050	502		ELM ST	WOOD DECK	1965	MCCARTY, BRETT D
002015017			CHESTNUT ST	RETAIL SPACE	1955	GATES, DAVID M ET AL
002015017			CHESTNUT ST	CFW	1955	GATES, DAVID M ET AL
002022001	861		8TH ST	SINGLE FAMILY RES.	1939	DEXTER, MIKE
002022002	821		ELM ST	SINGLE FAMILY RES.	1966	NETHERY, SHIRLEY M
002022002	821		ELM ST	CFW	<mark>1966</mark>	NETHERY, SHIRLEY M
002022003	862		9TH ST	SINGLE FAMILY RES.	1965	DICKEY, JAMES E
002022003	862		9TH ST	4'C/L FENCE	1965	DICKEY, JAMES E
002022003	862		9TH ST	CFW	1965	DICKEY, JAMES E
002022003	862		9TH ST	PORCH	1965	DICKEY, JAMES E
002022004	842		9TH ST	HOOKUP	1966	GRAVES, GARREY L & LEONA M TR
002022005	822		FIR ST	MOBILE HOME PARK SPACES	1964	BENNETT, JAMES D ET AL
002022006	802		FIR ST	SINGLE FAMILY RES.	1946	ROGERS, NATHAN A
002022006	802		FIR ST	MI HOOKID	1946	CLUEE DANK I
002023001	021		PIM CT	CINCLE FAMILY DEC	1964	CDAVEC DAVID I C MICHELLINE M
002023002	761		OTU CT	DETACUED CADAGE	1950	CTLIECTE TOP F C CUPPT A
002025001	921		ETD CT	CINCLE FAMILY PEC	1948	DOF GENE N TD
002025002	921		TIR SI	MH HOOKIDS	1948	DOE GENE N TD
002025002	821		FIR ST	6'C/L FENCE	1948	POE GENE N TP
002025002	821		FIR ST	CFW	1948	POE GENE N TR
002025003	852		ASH ST	SINGLE FAMILY RES.	1950	WARREN, JOSHUA
002025003	852		ASH ST	4'C/L FENCE	1950	WARREN, JOSHUA
002025003	852		ASH ST	5'S/B FENCE	1950	WARREN, JOSHUA
002025003	852		ASH ST	3'S/B FENCE	1950	WARREN, JOSHUA
002025003	852		ASH ST	SHED	1950	WARREN, JOSHUA
002025003	852		ASH ST	CFW	<mark>1950</mark>	WARREN, JOSHUA
002025004	822		ASH ST	SINGLE FAMILY RES.	<mark>1938</mark>	DEXTER, PATRICK J
002025004	822		ASH ST	4'C/L FENCE	1938	DEXTER, PATRICK J
002025004	822		ASH ST	CFW	1938	DEXTER, PATRICK J
002025004	822		ASH ST	SHED	1938	DEXTER, PATRICK J
002025004	822		ASH ST	PORCH CANALLY DDG	1938	DEXTER, PATRICK J
002025005	802		ASH ST	SINGLE FAMILY RES.	1949	BRYSON, CATHARINE
002025005	802		ASH SI	DODCH PENCE	1949	DRISON, CATHARINE
002025005	902		ACU CT	CEM	1949	DDVCON CATHARINE
002023003	842		CHESTNIT ST	SINCLE FAMILY DES	1942	MONDALE EVANCELINE S ET AL
002028002	842		CHESTNUT ST	4'S/B FENCE	1942	MONDALE EVANGELINE S ET AL
002028002	842		CHESTNUT ST	5'S/B FENCE	1942	MONDALE EVANGELINE S ET AL
002028002	842		CHESTNUT ST	C-BLOCK WALL	1942	MONDALE, EVANGELINE S ET AL
002028002	842		CHESTNUT ST	WMS FENCE	1942	MONDALE, EVANGELINE S ET AL
002028002	842		CHESTNUT ST	CFW	1942	MONDALE, EVANGELINE S ET AL
002028003	822		CHESTNUT ST	HOOKUP	1965	WILKINSON, STEVEN E ET AL
002028003	822		CHESTNUT ST	DETACHED GARAGE	1965	WILKINSON, STEVEN E ET AL
002028003	822		CHESTNUT ST	AWNING	1965	WILKINSON, STEVEN E ET AL
002028004	806		CHESTNUT ST	SINGLE FAMILY RES.	1950	NEILL, JEREMY S & SARAH
002028004	806		CHESTNUT ST	4'C/L FENCE	1950	NEILL, JEREMY S & SARAH
002028004	806		CHESTNUT ST	ROCK WALL	1950	NEILL, JEREMY S & SARAH

APN	Loc #	Loc Dir	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
002028004	806		CHESTNUT ST	CFW MULTI-FAMILY RES. STORAGE BUILDINGS STORAGE FLOORS CFW CFW CFW SINGLE FAMILY RES. CFW DETACHED GARAGE WMS FENCE SIDE SHED ON DET GARAGE SINGLE FAMILY RES. CFW SHOP/STORAGE/GARAGE WMW FENCE COTTAGE FENCE HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP SINGLE FAMILY RES. WMS FENCE MH HOOKUP SINGLE FAMILY RES. WMS FENCE MH PARK SINGLE FAMILY RES. 4'C/LL FENCE C/L TOPRAIL SHED DET. GARAGE SHED DETACHED GARAGE SHED DETACHED GARAGE SINGLE FAMILY RES. CFW 4'C/L FENCE C/L TOPRAIL HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP OTHER SHED CTH HOOKUP	1950	NEILL, JEREMY S & SARAH
002028005	681		8TH ST	MULTI-FAMILY RES.	1914	CARLIN NEVADA DEVELOPMENT LLC
002028005	681		8TH ST	STORAGE BUILDINGS	1937	CARLIN NEVADA DEVELOPMENT LLC
002028005	681		8TH ST	STORAGE FLOORS	1937	CARLIN NEVADA DEVELOPMENT LLC
002028005	681		8TH ST	CFW	1965	CARLIN NEVADA DEVELOPMENT LLC
002028005	<mark>681</mark>		8TH ST	CFW	<mark>1914</mark>	CARLIN NEVADA DEVELOPMENT LLC
002028006	<mark>661</mark>		8TH ST	SINGLE FAMILY RES.	<mark>1937</mark>	CARLIN PARTNERS LLC
002028006	661		8TH ST	CFW	1937	CARLIN PARTNERS LLC
002030003	1021		TUSCARORA RD	DETACHED GARAGE	1966	HOUSE, LARRY E
002030003	1021		TUSCARORA RD	WMS FENCE	1966	HOUSE, LARRY E
002030003	1021		TUSCARORA RD	SIDE SHED ON DET GARAGE	1966	HOUSE, LARRY E
002030009	821		TUSCARORA RD	SINGLE FAMILY RES.	1930	ANDERSON, CLAY E & TRACYY
002030009	821 651		TUSCARORA RD	CHW CHODAGE (CARAGE	1930	ANDERSON, CLAY E & TRACYY
002030035	651		TUSCARORA RD	MMM PPNCE	1930	HOLM, K RICK & JANEEN HOLM, K RICK & JANEEN
002030036	1542		CHESTNUT ST	COTTACE	1930	WESTERWELLE, MAX
002030036	1542		CHESTNUT ST	FENCE	1942	WESTERWELLE, MAX
002036001	1408		FIR ST	HOOKID	1943	GALYEAN, SAMUEL F & REBECCA S
002036002	1410		FIR ST	HOOKUP	1943	MONTES DE OCA, FRED
002036003	1412		FIR ST	MH HOOKUP	1943	MONTES DE OCA, FRED
002036004	1414		FIR ST	HOOKUP	1943	MONTES DE OCA, FRED
002036005	1416		FIR ST	HOOKUP	1943	MONTES DE OCA, FRED
002036008	831		14TH ST	HOOKUP	1943	MINCHEW, ARTHUR & EVA
002036009			TUSCARORA RD	HOOKUP	1943	MONTES DE OCA, FRED
002036010	<mark>832</mark>		TUSCARORA RD	HOOKUP	<mark>1943</mark>	MUNSTER, TRAVIS
002036011	842		TUSCARORA RD	MH HOOKUP	<mark>1943</mark>	DANNINGER, APRIL LYNN ET AL
002036012	<mark>852</mark>		TUSCARORA RD	MH HOOKUP	1943	PAICE, PATSY L
002036013	841		14TH ST	SINGLE FAMILY RES.	1943	URENDA, JOHNNY C & ROSIE C TR
002036013	841		14TH ST	WMS FENCE	1943	URENDA, JOHNNY C & ROSIE C TR
002060001	125	W	BUSH ST	MH PARK	1965	ERP PROPERTIES LLC
002067001 002067001	341 341		BUSH ST BUSH ST	ALC/II PENCE	1932	MCCULLOUGH, THOMAS E MCCULLOUGH, THOMAS E
002067001	341	W	BUSH ST	C/I TOPPATI	1932	MCCULLOUGH, THOMAS E
002067001	341	W	BUSH ST	CHED	1932	MCCULLOUGH, THOMAS E
002067001	341	W	BUSH ST	DET GARAGE	1932	MCCULLOUGH, THOMAS E
002067001	341	W	BUSH ST	SHED	1932	MCCULLOUGH, THOMAS E
002068012	251	W	BUSH ST	DETACHED GARAGE	1930	AIAZZI, PETER J & CHERIE J
002077002	107		BUSH ST	SINGLE FAMILY RES.	1935	APLAND, ROBERT L
002077002	107		BUSH ST	CFW	1935	APLAND, ROBERT L
002077002	107		BUSH ST	4'C/L FENCE	<mark>1935</mark>	APLAND, ROBERT L
002077002	107		BUSH ST	C/L TOPRAIL	<mark>1935</mark>	APLAND, ROBERT L
002077003	362		2ND ST	HOOKUP	<mark>1967</mark>	GRISWOLD, TOM C & DIANE M
002077003	<mark>362</mark>		2ND ST	ADDITION	1967	GRISWOLD, TOM C & DIANE M
002077003	362		2ND ST	COVERED PORCH	1967	GRISWOLD, TOM C & DIANE M
002077008	110		CEDAR ST	HOOKUP	1967	HUGHES, RANDALL
002077008	110		CEDAR ST	CFW	1967	HUGHES, RANDALL
002078002	372		3RD ST	HOOKUP	1966	LOPEZ, TONY
002078002	372		3RD ST	CFW	1966	LOPEZ, TONY
002078003	332		3RD ST	HOOKUP	1967	HUSTEAD, TRENT
002078006	216		CEDAR ST	TOOKUP	1366	CAREY, HUBERT L & MYRTLE E

APN	Loc #	Loc Dir	Location or Street	MH HOOKUP ENCLOSED PORCH WOOD DECK CFW SINGLE FAMILY RES. HOOKUP 4'C/L FENCE C/L PRIVACY SLATS ASPHALT CFW HOOKUP HOOKUP SINGLE FAMILY RES. CFW 3'S/B FENCE 5'S/B FENCE SINGLE FAMILY RES. 3'S/B FENCE DETACHED GARAGE CFW COMM'L-ELEMENTARY SCHOOL COMM'L-SECONDARY SCHOOL & GY MULTI-FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES. 6'S/B FENCE C/L PRIVACY SLATS 6'S/B FENCE C/L PRIVACY SLATS 6'S/B FENCE C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS 6'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS 6'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS CFW SINGLE FAMILY RES. 3'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS CFU SINGLE FAMILY RES. 6'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS CFU SINGLE FAMILY RES. 4'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS CFU SINGLE FAMILY RES. 4'C/L FENCE C/L TOPRAIL C/L FENCE C/L TOPRAIL	YR BUILT	Assessed Owner
002078011	220		CEDAR ST	MH HOOKUP	1966	GODWIN, KATHLEEN J ET AL
002078011	220		CEDAR ST	ENCLOSED PORCH	1966	GODWIN, KATHLEEN J ET AL
002078011	220		CEDAR ST	WOOD DECK	1966	GODWIN, KATHLEEN J ET AL
002078011	220		CEDAR ST	CFW	1966	GODWIN, KATHLEEN J ET AL
002079003	317		BUSH ST	SINGLE FAMILY RES.	1945	FERGUSON. DANIEL F & DEMOYA G
002079003	317		BUSH ST	HOOKUP	1945	FERGUSON, DANIEL F & DEMOYA G FERGUSON, DANIEL F & DEMOYA G
002079003	317		BUSH ST	4'C/L FENCE	1945	FERGUSON, DANIEL F & DEMOYA G
002079003	317		BUSH ST	C/L PRIVACY SLATS	1945	FERGUSON, DANIEL F & DEMOYA G
002079003	317		BUSH ST	ASPHALT	1945	FERGUSON, DANIEL F & DEMOYA G
002079003	317		BUSH ST	CFW	1945	FERGUSON, DANIEL F & DEMOYA G
002079004	318		CEDAR ST	HOOKUP	1966	TAYLOR, DONNA OVERHOLSER, SHECKY
002079005	314		CEDAR ST	HOOKUP	1966	OVERHOLSER, SHECKY
002079007	306		CEDAR ST	SINGLE FAMILY RES.	1926	TRUJILLO, DAVID & HEATHER
002079007	306		CEDAR ST	CFW	1926	TRUJILLO, DAVID & HEATHER TRUJILLO, DAVID & HEATHER
002079007	306		CEDAR ST	3 S/B FENCE	1926	TRUJILLO, DAVID & HEATHER
002079007	306		CEDAR ST	5'S/B FENCE	1926	TRUJILLO, DAVID & HEATHER
002079008	321		3RD ST	SINGLE FAMILY RES.	1950	CULLEY-REYNOLDS, CHERYL L
002079008	321		BUCH CE	DEMICHED CAPACE	1950	CULLEY-REYNOLDS, CHERYL L
002079012	305		BUSH ST	CON GARAGE	1963	MONTES DE OCA, ALFRED ET AL
002079012 002080001	305		BUSH ST	COMMIT ELEMENTARY COMOCI	1965	MONTES DE OCA, ALFRED ET AL
002080001	552		OTH SI	COMMUL CECONDARY SCHOOL CV	1901	ELKO COUNTY SCHOOL DISTRICT
002083003	416		DICU CT	MILTITERMILY DEC	1926	ELKO COUNTY SCHOOL DISTRICT HARDISTY, GARY A
002083003	416		BUSH SI	CEM	1935	HARDISTY, GARY A
002083003	416		RICU CT	SIC/D PENCE	1935	HARDISTY, GARY A
002084008	520		BUSH SI	SINCLE FAMILY DES	1963	TILLMAN, ABRAHAM N
002084008	520		BUSH ST	SINGLE PARTLI RES.	1963	TILLMAN, ABRAHAM N
002084008	520		BUCH CT	CUED PENCE	1963	TILLMAN, ABRAHAM N
002085001	401		RUSH ST	SINGLE FAMILY RES	1937	GAREY, GREGORY D
002085001	401		BUSH ST	3'C/I FENCE	1937	GAREY, GREGORY D
002085001	401		BUSH ST	C/L PRIVACY SLATS	1937	GAREY, GREGORY D
002085001	401		BUSH ST	6'S/B FENCE	1937	GAREY, GREGORY D
002085002	409		BUSH ST	SINGLE FAMILY RES.	1932	HYDE, RICHARD E
002085002	409		BUSH ST	2'S/B FENCE	1932	HYDE, RICHARD E
002085002	409		BUSH ST	4'C/L FENCE	1932	HYDE, RICHARD E
002085002	409		BUSH ST	6'S/B FENCE	1932	HYDE, RICHARD E
002085002	409		BUSH ST	CFW	1932	HYDE, RICHARD E
002085003	411		BUSH ST	SINGLE FAMILY RES.	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	3'C/L FENCE	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	C/L TOPRAIL	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	C/L PRIVACY SLATS	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	6'C/L FENCE	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	C/L TOPRAIL	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	C/L PRIVACY SLATS	1952	HOGUE, SHIRLEY M
002085003	411		BUSH ST	CFW	1952	HOGUE, SHIRLEY M
002085004	342		5TH ST	SINGLE FAMILY RES.	1932	EASTMAN, KEITH P & MARY E
002085004	342		5TH ST	4 C/L FENCE	1932	EASTMAN, KEITH P & MARY E
002085004	342		5TH ST	C/L TOPRAIL	1932	EASTMAN, KEITH P & MARY E
002085004	342		5TH ST	6'C/L FENCE	1932	EASTMAN, KEITH P & MARY E
002085004	342		5TH ST	C/L TOPRAIL	1932	EASTMAN, KEITH P & MARY E

APN	Loc #	Loc	Location or Street	MH HOOKUP CFW SINGLE FAMILY RES. SHED PORCH PORCH CFW HOOKUP RESIDENCE (BUNKHOUSE COST) UNFINISHED BASEMENT FIXTURES COVERED DECK PORCH WALLS SHED CFW PORCH SINGLE FAMILY RES. CFW DET GARAGE SINGLE FAMILY RES. 4 'C/L FENCE C/L TOPRAIL 6 'S/B FENCE CFW SINGLE FAMILY RES. 5 'S/B FENCE C/L TOPRAIL COVERED PORCH SHED SINGLE FAMILY RES. CFW COVERED FAMILY RES. CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SHED PORCH SINGLE FAMILY RES. CFW SHED PORCH SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW AWNING BUNKHOUSE FIXTURES	YR BUILT	Assessed Owner
		Dir				
000005004	342		5TH ST	MH HOOKID	1022	EASTMAN, KEITH P & MARY E
002085004 002085004	342		5TH ST	CEM CEM	1932	EASTMAN, KEITH P & MARY E
002085004	422		CEDAR ST	SINGLE FAMILY DES	1920	HUSSEY, NANCY
002085006	422		CEDAR ST	CHED	1920	HUSSEY, NANCY
002085006	422		CEDAR ST	DOBCA	1920	HUSSEY, NANCY
002085006	422		CEDAR ST	DODCH	1920	HUSSEY, NANCY
002085006	422		CEDAR ST	CEM	1920	HUSSEY, NANCY
002085007	420		CEDAR ST	HOOKID	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	PESIDENCE (BINKHOUSE COST)	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	INFINISHED BASEMENT	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	FIXTURES	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	COVERED DECK	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	PORCH WALLS	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	SHED	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	CFW	1926	LITCHFIELD, LINCOLN & DIANA S
002085007	420		CEDAR ST	PORCH	1926	LITCHFIELD, LINCOLN & DIANA S
002085008	416		CEDAR ST	SINGLE FAMILY RES.	1926	LITCHFIELD, LINCOLN RJR
002085008	416		CEDAR ST	CFW	1926	LITCHFIELD, LINCOLN RJR
002085009	414		CEDAR ST	DET GARAGE	1932	SIERRA, CATALINA
002086001	501		BUSH ST	SINGLE FAMILY RES.	1943	SIMPSON, VALERIE JO
002086001	501		BUSH ST	4'C/L FENCE	1943	SIMPSON, VALERIE JO
002086001	501		BUSH ST	C/L TOPRAIL	1943	SIMPSON, VALERIE JO
002086001	501		BUSH ST	6'S/B FENCE	1943	SIMPSON, VALERIE JO
002086001	501		BUSH ST	CFW	1943	SIMPSON, VALERIE JO
002086003	523		BUSH ST	SINGLE FAMILY RES.	1947	MICHELI, WILLIAM & JUDY M
002086003	523		BUSH ST	CFW	1947	MICHELI, WILLIAM & JUDY M
002086003	<mark>523</mark>		BUSH ST	6'S/B FENCE	1947	MICHELI, WILLIAM & JUDY M
002086003	<mark>523</mark>		BUSH ST	4'C/L FENCE	1947	MICHELI, WILLIAM & JUDY M
002086003	523		BUSH ST	C/L TOPRAIL	1947	MICHELI, WILLIAM & JUDY M
002086003	<mark>523</mark>		BUSH ST	COVERED PORCH	1947	MICHELI, WILLIAM & JUDY M
002086003	<mark>523</mark>		BUSH ST	PORCH	<mark>1947</mark>	MICHELI, WILLIAM & JUDY M
002086003	<mark>523</mark>		BUSH ST	SHED	1947	MICHELI, WILLIAM & JUDY M
002086004	<mark>524</mark>		CEDAR ST	SINGLE FAMILY RES.	1942	COSENS, BRUCE & TRACIE
002086004	<mark>524</mark>		CEDAR ST	5'S/B FENCE	1942	COSENS, BRUCE & TRACIE
002086004	524		CEDAR ST	CFW	1942	COSENS, BRUCE & TRACIE
002086004	524		CEDAR ST	COVERED PORCH	1942	COSENS, BRUCE & TRACIE
002086007	514		CEDAR ST	SINGLE FAMILY RES.	1965	KITTS, BRANDON T & LORIE ANN
002086007	514		CEDAR ST	4 C/L FENCE	1965	KITTS, BRANDON T & LORIE ANN
002086007	514		CEDAR ST	CFU TOPRATE	1965	KITTS, BRANDON T & LORIE ANN
002086007	514		CEDAR ST	CFW	1965	KITTS, BRANDON T & LORIE ANN
002086007	514		CEDAR ST	8 "C-BLOCK WALL	1965	KITTS, BRANDON T & LORIE ANN HUTCHISON, DOUGLAS M
002086008	506		CEDAR ST	CEW CEW	1952	HUTCHISON, DOUGLAS M
002086008	506		CEDAR ST CEDAR ST	CUED	1952	HUTCHISON, DOUGLAS M
002086008	506 506		CEDAR SI	DOBCH	1952	HUTCHISON, DOUGLAS M
002086008	506 502		CEDAR ST CEDAR ST	CINCIE DAMILY DEC	1952	HENDERSON, JOHN & CHRISTINA
002086009	502		CEDAR ST	CEW CEW	1951	HENDERSON, JOHN & CHRISTINA HENDERSON, JOHN & CHRISTINA
002086009	502		CEDAR ST	AMBITAIC	1951	HENDERSON, JOHN & CHRISTINA
002086010	518		CEDAR ST	BINKHOUSE	1920	CLOUGH, MARK A & CONNIE R
002086010	518		CEDAR ST	FIYTIDEC	1920	CLOUGH, MARK A & CONNIE R
00200010	218		CEDAR SI	FIATORES	1920	CHOOSII, PIARR A & CONNIE R

APN	Loc #	Loc Dir	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
002007001	623	D11	BUSH ST	RV PARK 4'C/L FENCE SINGLE FAMILY RES. 4'C/L FENCE 4'S/B FENCE CFW SINGLE FAMILY RES. CFW 5'C/L FENCE SINGLE FAMILY RES. 4'C/L FENCE CBLOCK WALL CFW C-BLOCK WALL SINGLE FAMILY RES. WOOD DECK SINGLE FAMILY RES. 6'S/B FENCE CFW COMM'L-STORAGE MH SPACES CFW RETAINING WALL STORAGE COMM'L-BAR/TAVERN CFW COVERED PORCH SINGLE FAMILY RES. 6'S/B FENCE CFW SINGLE FAMILY RES. 6'S/B FENCE CFW SINGLE FAMILY RES. 6'S/B FENCE CFW SINGLE FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES. 6'S/B FENCE CFW ASPHALT 6'S/B FENCE COMM'L-RETAIL STORE ASPHALT 6'S/B FENCE COMM'L-RETAIL STORE ASPHALT 6'C/L FENCE C/L TOPRAIL C/L BARBED WIRE COLD STORAGE SINGLE FAMILY RES.	1064	VINC EDWARD O C TERRY I
002087001 002087001	623		BUSH ST	ALC/I PENCE	1964	KING, EDWARD O & TERRY L KING, EDWARD O & TERRY L
002087001	618		CEDAR ST	STUCIE FAMILY DES	1939	ALEXANDER, JEFFERY D TR ET AL
002087002	618		CEDAR ST	4'C/L FENCE	1938	ALEXANDER, JEFFERY D TR ET AL
002087002	618		CEDAR ST	4'S/B FENCE	1938	ALEXANDER, JEFFERY D TR ET AL
002087002	618		CEDAR ST	CEM	1938	ALEXANDER, JEFFERY D TR ET AL
002087003	614		CEDAR ST	SINGLE FAMILY RES.	1932	JNCF HOLDINGS LLC
002087003	614		CEDAR ST	CFW CFW	1932	JNCF HOLDINGS LLC
002087003	614		CEDAR ST	5'C/L FENCE	1932	JNCF HOLDINGS LLC
002087004	610		CEDAR ST	SINGLE FAMILY RES.	1945	ANDERSON, JEFFREY K & NANCY LEE
002087004	610		CEDAR ST	4'C/L FENCE	1945	ANDERSON, JEFFREY K & NANCY LEE
002087004	610		CEDAR ST	C-BLOCK WALL	1945	ANDERSON, JEFFREY K & NANCY LEE
002087004	610		CEDAR ST	CFW	1945	ANDERSON, JEFFREY K & NANCY LEE
002087004	610		CEDAR ST	C-BLOCK WALL	1945	ANDERSON, JEFFREY K & NANCY LEE
002087008	606		CEDAR ST	SINGLE FAMILY RES	1920	CAILOR, ROBERT MICHAEL ET AL
002087008	606		CEDAR ST	WOOD DECK	<mark>1920</mark>	CAILOR, ROBERT MICHAEL ET AL
002090001	551		8TH ST	SINGLE FAMILY RES.	<mark>1945</mark>	WHITE, REBECCA
002090001	551		8TH ST	6'S/B FENCE	1945	WHITE, REBECCA
002090001	<mark>551</mark>		8TH ST	CFW	<mark>1945</mark>	WHITE, REBECCA
002090005	825		1/2 CHESTNUT ST	COMM'L-STORAGE	1948	MONTES DE OCA, ALFRED RYAN ETAL
002090005	825		1/2 CHESTNUT ST	MH SPACES	<mark>1962</mark>	MONTES DE OCA, ALFRED RYAN ETAL
002090005	825		1/2 CHESTNUT ST	CFW	<mark>1948</mark>	MONTES DE OCA, ALFRED RYAN ETAL
002090005	825		1/2 CHESTNUT ST	RETAINING WALL	1948	MONTES DE OCA, ALFRED RYAN ETAL
002090005	825		1/2 CHESTNUT ST	STORAGE	1948	MONTES DE OCA, ALFRED RYAN ETAL
002090006	915		CHESTNUT ST	COMM'L-BAR/TAVERN	1947	ATKINS, SONNY & TERI L
002090006	915		CHESTNUT ST	CFW	1947	ATKINS, SONNY & TERI L
002090006	915		CHESTNUT ST	COVERED PORCH	1947	ATKINS, SONNY & TERI L
002091001	451		8TH ST	SINGLE FAMILY RES.	1966	GILLESPIE, RICHARD D
002091001	451		8TH ST	6 S/B FENCE	1966	GILLESPIE, RICHARD D
002091001	451		8TH ST	CINCLE ENMILY DEC	1966	GILLESPIE, RICHARD D
002091003	818 818		BUSH ST BUSH ST	SINGLE FAMILI RES.	1960	CARPENTER MARIE TR CARPENTER MARIE TR
002091003 002091003	818		BUSH ST	3 C/I PENCE	1960	CARPENTER MARIE TR
002091003	818		BUSH ST	CEM CEM	1960	CARPENTER MARIE TR
002091005	808		BUSH ST	WH HOOKIID	1964	CARPENTER, MARIE A TR
002091005	808		BUSH ST	MOOD DECK	1964	CARPENTER, MARIE A TR
002091005	808		BUSH ST	CONCRETE	1964	CARPENTER, MARIE A TR
002091006	802		BUSH ST	SINGLE FAMILY RES	1962	RAY, KODEE ET AL
002091006	802		BUSH ST	SHED	1962	RAY, KODEE ET AL
002091006	802		BUSH ST	CFW	1962	RAY, KODEE ET AL
002091006	802		BUSH ST	ASPHALT	1962	RAY, KODEE ET AL
002091006	802		BUSH ST	6'S/B FENCE	1962	RAY, KODEE ET AL
002092001	924		BUSH ST	COMM'L-RETAIL STORE	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	ASPHALT	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	COVERED PORCH	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	6'C/L FENCE	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	C/L TOPRAIL	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	C/L BARBED WIRE	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092001	924		BUSH ST	COLD STORAGE	1962	OWENS, BRADLEY NEAL &KATHRYN M
002092002	902		BUSH ST	SINGLE FAMILY RES.	1964	MARCHAND, CHAD KEITH & CARLENE

APPN	APN	Loc #	Loc	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
00293000 902 BUSH ST			Dir				
02093004 932 BUSH ST ST COMM'L-OFFICES 1964 KERR, BRUCE ET AL 02093004 372 BTH ST COMM'L-OFFICES 1963 KERR, BRUCE ET AL 02093004 372 BTH ST CPW 1963 KERR, BRUCE ET AL 02093004 372 BTH ST CPW 1963 KERR, BRUCE ET AL 02093006 AT 18 CEDAR ST CPW 1963 KERR, BRUCE ET AL 02093006 AT 18 CEDAR ST CPW 1963 KERR, BRUCE ET AL 02093006 AT 18 CEDAR ST SINGLE FAMILY RES. 1914 CARLIN, CITY OF COMM'L-SENIOR CENTER 1910 CARLIN, CITY OF CARLINS TO COMM'L-SENIOR CENTER 1910 CARLING, CAR	002092002	902		RIICH CT	CEW	1964	MARCHAND CHAD KETTH & CARLENE
002939004 372 8TH ST		902		BUSH ST	5'C/L FENCE	1964	
002093004 372 8TH ST		372		8TH ST	COMM' L-OFFICES	1963	KEDD BRICE ET AL.
02093006 718 CEDAR ST CPW 1910 CARLIN, CITY OF 02093006 718 CEDAR ST CPW 1910 CARLIN, CITY OF 02093006 718 CEDAR ST CPW 1910 CARLIN, CITY OF 02093007 710 CEDAR ST SINGLE FAMILY RES 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 720 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 720 CEDAR ST SINGLE FAMILY RES 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST SINGLE FAMILY RES 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST SINGLE FAMILY RES 1938 RASMUSSEN, ROGER L & PATRICIA J 02093009 705 BUSH ST SINGLE FAMILY RES 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST CPW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093009 705 BUSH ST CPW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093009 705 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BUSH ST CPW 1939 HOME, DAVID & ANGELICA 02093010 701 BU		372		8TH ST	ASPHALT	1963	KERR BRICE ET AL
02093006 718 CEDAR ST COMM'L-SENIOR CENTER 1910 CARLIN CITY OF 02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1932 SANTO, CHARLES T 02093007 710 CEDAR ST SHED 1932 SANTO, CHARLES T 02093007 710 CEDAR ST GFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST GFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST GFW 1932 SANTO, CHARLES T 02093008 702 CEDAR ST GFW 1932 SANTO, CHARLES T 02093008 702 CEDAR ST GFW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST GARAGE 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST GARAGE 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 703 CEDAR ST GARAGE 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 703 CEDAR ST GARAGE 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 703 BUSH ST GARAGE 1939 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST GARAGE 1939 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST GEW 1939 HOWE, DAVID & ANGELICA 02093010 701 BUSH ST GEW 1939 HOWE, DAVID & ANGELICA 02093010 701 BUSH ST GEW 1939 HOWE, DAVID & ANGELICA 02093010 701 BUSH ST GEW 1939 HOWE, DAVID & ANGELICA 02093011 711 BUSH ST GINCLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST GINCLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02094003 821 BUSH ST GINCLE FAMILY RES. 1944 RED, JERRY & ASHLEY 02094003 821 BUSH ST GINCLE FAMILY RES. 1944 RED, JERRY & ASHLEY 02094003 821 BUSH ST GINCLE FAMILY RES. 1944 CARPENTER, MARIE A TR 02094003 821 BUSH ST GINCLE FAMILY RES. 1944 CARPENTE		372		8TH ST	CFW	1963	KEDD BRICE ET AL
O2093005		718		CEDAR ST	COMM'IL SENTOR CENTER	1910	CAPLIN CITY OF
02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1914 SANTO, CHARLES T 02093007 710 CEDAR ST SINGLE FAMILY RES. 1912 SANTO, CHARLES T 02093007 710 CEDAR ST SHOLE FAMILY RES. 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093008 701 CEDAR ST SINGLE FAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST SINGLE FAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST CFW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST SINGLE FAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 703 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA O2093009 705 BUSH ST RETAINING WALL 1959 HOWE, DAVID & ANGELICA O2093009 705 BUSH ST RETAINING WALL 1959 HOWE, DAVID & ANGELICA O2093010 701 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA O2093010 701 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA O2093010 701 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA O2093011 711 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA O2093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1940 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1940 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1940 RED, JERRY & ASHLEY O2093011 711 BUSH ST SINGLE FAMILY RES. 1940 AGREE & ROV O2094002 811 BUSH ST SINGLE FAMILY RES. 1940 AGREE & ROV O2094003 821 BUSH ST CFW 1940 AGREE & ROV O2094003 821 BUSH ST CFW 1940 AGREE & ROV O2094003 821 BUSH ST CFW 1940 AGREE & ROV O2094003 821 BUSH ST GETAIN OACH AGREE & ROV O2094003 821 BUSH ST GETAIN OACH AGREE & ROV O2094003 821 BUSH ST GETAIN OA		718		CEDAR ST	CEM	1910	CAPLIN CITY OF
O2093007 710 CEDAR ST SINGLE FAMILY RES 1914 SANTO CHARLES T		710		CEDAR ST	SINGLE FAMILY PES	1914	SANTO CHARLES T
02093007 710 CEDAR ST SINGLE FAMILY RES 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093007 710 CEDAR ST CFW 1932 SANTO, CHARLES T 02093008 702 CEDAR ST GINGLE FAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST GINGLE FAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST CFW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST CFW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093009 705 BUSH ST SINGLE FAMILY RES. 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST RETAINING WALL 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST CFW 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST CFW 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST CFW 1959 HOME, DAVID & ANGELICA 02093009 705 BUSH ST CFW 1959 HOME, DAVID & ANGELICA 02093010 701 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093010 701 BUSH ST GINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093011 711 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST CFW 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1947 RED, JERRY & ASHLEY 02094002 811 BUSH ST SINGLE FAMILY RES. 1946 GATES, ROY 02094002 811 BUSH ST SINGLE FAMILY RES. 1964 GATES, ROY 02094002 811 BUSH ST SINGLE FAMILY RES. 1964 GATES, ROY 02094002 811 BUSH ST SINGLE FAMILY RES. 1964 GATES, ROY 02094003 821 BUSH ST SINGLE FAMILY RES. 1964 GATES, ROY 02094004 824 CEDAR ST SINGLE FAMILY RES. 1947 CERRY & ASHLEY 02094004 816 CEDAR ST SINGLE FAMILY RES. 1945 COUTRIN, DERKE M. & RUTH E 02094006 816 CEDA		710		CEDAR ST	SINGLE FAMILY RES	1914	
O2093007 710 CEDAR ST SHED 1932 SANTO CHARLES T		710		CEDAR ST	SINGLE FAMILY RES	1932	
O2093007 710 CEDAR ST CFM		710		CEDAR ST	SHED	1932	SANTO CHARLES T
02093007 710 CEDAR ST 6'S/B FENCE 1932 SANTO CHARLES T 02093008 702 CEDAR ST SINGLE PAMILY RES. 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST GARAGE 1938 RASMUSSEN, ROGER L & PATRICIA J 02093008 702 CEDAR ST CW 1938 RASMUSSEN, ROGER L & PATRICIA J 02093009 705 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST RETAINING WALL 02093009 705 BUSH ST CW 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST CW 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST SINGLE FAMILY RES. 1959 HOWE, DAVID & ANGELICA 02093010 701 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093010 701 BUSH ST SINGLE FAMILY RES. 1959 CARDONA, ANGEL & VICTORIA 02093010 701 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST SINGLE FAMILY RES. 1942 RED, JERRY & ASHLEY 02093011 711 BUSH ST CW 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST CW 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST CW 1947 RED, JERRY & ASHLEY 02093011 711 BUSH ST CW 1947 RED, JERRY & ASHLEY 02093002 811 BUSH ST CW 1947 RED, JERRY & ASHLEY 02094002 811 BUSH ST CW 1946 GATES, ROY 02094002 811 BUSH ST CW 1946 GATES, ROY 02094003 821 BUSH ST SINGLE FAMILY RES. 1964 CARPENTER, MARIE A TR 02094003 821 BUSH ST SINGLE FAMILY RES. 1964 CARPENTER, MARIE A TR 02094003 821 BUSH ST SINGLE FAMILY RES. 1964 CARPENTER, MARIE A TR 02094004 824 CEDAR ST SINGLE FAMILY RES. 1942 JESS, KENNETH A & TERESA A 02094005 818 CEDAR ST SINGLE FAMILY RES. 1945 COLTRIN, DERK M & RUTH E 02094006 816 CEDAR ST SINGLE FAMILY RES. 1945 COLTRIN, DERK M & RUTH E 02094006 816 CEDAR ST SINGLE FAMILY RES. 1945 COLTRIN, DERK M & RUTH E 02094007 810 CEDAR ST SINGLE FAMILY RES. 1945 COLTRIN, DERK M & RUTH E 02094007 810 CEDAR ST SINGLE FAMILY RES. 1945 TERRY, JACK & SANDRA J 02094007 810 CEDAR ST SINGLE FAMILY RES. 1945 TERRY, JACK & SANDRA J 02094007 810 CE		710		CEDAR ST	CEM	1932	
O2093008		710		CEDAR ST	6'S/R FENCE	1932	SANTO CHARLES T
002093008 702 CEDAR ST GARAGE 1938 RASMUSSEN ROCER L & PATRICIA J 002093009 705 BUSH ST SINGLE PAMILY RES, 1959 HOWE, DAVID & ANGELICA 002093009 705 BUSH ST RETAINING WALL 1959 HOWE, DAVID & ANGELICA 002093009 705 BUSH ST RETAINING WALL 1959 HOWE, DAVID & ANGELICA 1950 HOWE, DAVID		702		CEDAR ST	SINGLE FAMILY RES	1938	RASMUSSEN ROGER I. & PATRICIA J
1938 RASMUSSEN ROCER L E PATRICIA J		702		CEDAR ST	GARAGE	1938	RASMUSSEN ROGER L & PATRICIA J
02093009 705 BUSH ST SINGLE FAMILY RES, 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST RETAINING WALL 1959 HOWE, DAVID & ANGELICA 02093009 705 BUSH ST CFW 1959 HOWE, DAVID & ANGELICA 1959 HOWE, DAVID & ANGELICA 02093010 701 BUSH ST CFW 1959 HOWE, DAVID & ANGELICA 1959 HOWE, DAVID		702		CEDAR ST	CFW	1938	RASMUSSEN ROCER L & PATRICIA J
O2093009		705		RUSH ST	SINGLE FAMILY RES	1959	HOWE DAVID & ANGELICA
02093009 705 BUSH ST		705		BUSH ST	RETAINING WALL	1959	HOWE DAVID & ANGELICA
O2093010		705		BUSH ST	4'C/L FENCE	1959	HOWE DAVID & ANGELICA
O2093010 701 BUSH ST		705		BUSH ST	CFW	1959	HOWE DAVID & ANGELICA
O2093011 711		701		BUSH ST	SINGLE FAMILY RES.	1959	CARDONA ANGEL & VICTORIA
O2093011 711		701		BUSH ST	CFW	1959	CARDONA ANGEL & VICTORIA
O2093011		711		BUSH ST	SINGLE FAMILY RES.	1942	RED JERRY & ASHLEY
O22093011 711 BUSH ST		711		BUSH ST	SINGLE FAMILY RES.	1942	RED JERRY & ASHLEY
O22093011 711		711		BUSH ST	SINGLE FAMILY RES.	1947	RED JERRY & ASHLEY
1947 1947 1947 1947 1947 1947 1947 1947 1948		711		BUSH ST	CFW CFW	1942	RED JERRY & ASHLEY
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002094006 816 CEDAR ST SHED 1945 COLTRIN, DEREK M & RUTH E 002094006 816 CEDAR ST PICKET FENCE 1945 COLTRIN, DEREK M & RUTH E 002094007 810 CEDAR ST SINGLE FAMILY RES. 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST CFW 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'C/L FENCE 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		816		CEDAR ST	CFW	1945	COLTRIN, DEREK M & RUTH E
002094006 816 CEDAR ST PICKET FENCE 1945 COLTRIN, DEREK M & RUTH E 002094007 810 CEDAR ST SINGLE FAMILY RES. 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST CFW 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'C/L FENCE 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		816		CEDAR ST	SHED	1945	COLTRIN, DEREK M & RUTH E
002094007 810 CEDAR ST SINGLE FAMILY RES. 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST CFW 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'C/L FENCE 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		816		CEDAR ST	PICKET FENCE	1945	COLTRIN, DEREK M & RUTH E
002094007 810 CEDAR ST CFW 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'C/L FENCE 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		810		CEDAR ST	SINGLE FAMILY RES.	1945	TERRY, JACK K & SANDRA J
002094007 810 CEDAR ST 5'C/L FENCE 1945 TERRY, JACK K & SANDRA J 002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		810		CEDAR ST	CFW	1945	TERRY, JACK K & SANDRA J
002094007 810 CEDAR ST 5'SB FENCE 1945 TERRY, JACK K & SANDRA J		810		CEDAR ST	5'C/L FENCE	1945	TERRY, JACK K & SANDRA J
		810		CEDAR ST	5'SB FENCE	1945	TERRY, JACK K & SANDRA J

APN	Loc #	Loc Dir	Location or Street	SINGLE FAMILY RES. CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. 4'C/L FENCE CFW 5'SB FENCE MH HOOKUPS SHED COVERED DECK 6'S/B FENCE 4'C/L FENCE CFW COMM'L-RESTAURANT/LAUNDROMAT CFW SINGLE FAMILY RES. 5'S/B FENCE 4'C/L FENCE CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. WMS FENCE CFW SINGLE FAMILY RES. WMS FENCE CFW SINGLE FAMILY RES. WMS FENCE COMM'L-MINI-MART SHED COMM'L-STORAGE BLDG. COMM'L-STORAGE BLDG. COVERED PORCH MH HOOKUP ATTACHED GARAGE SHED MH HOOKUP SINGLE FAMILY RES. CFW SHED FLOOR 4'C/L FENCE C/L TOPRAIL SINGLE FAMILY RES. CFW SHED FLOOR 4'C/L FENCE C/L TOPRAIL SINGLE FAMILY RES. CFW SHED FLOOR 4'C/L FENCE C/L TOPRAIL SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SHED FLOOR 4'C/L FENCE C/L TOPRAIL SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW	YR BUILT	Assessed Owner
002094008	806		CEDAR ST	SINGLE FAMILY RES.	1947	NUNEZ, HELIODORO & ANNA
002094008	806		CEDAR ST	CFW	1947	NUNEZ, HELIODORO & ANNA
002094009	802		CEDAR ST	SINGLE FAMILY RES.	1952	GRIFFITH, PATRICK S & PATRICIA D
002094009	802		CEDAR ST	4'C/L FENCE	1952	GRIFFITH, PATRICK S &PATRICIA D
002094009	802		CEDAR ST	CFW	1952	GRIFFITH, PATRICK S &PATRICIA D
002095001	371		9TH ST	SINGLE FAMILY RES.	1954	CHASE, DELINDA
002095001	371		9TH ST	4'C/L FENCE	1954	CHASE, DELINDA
002095001	371		9TH ST	CFW	1954	CHASE, DELINDA
002095001	371		9TH ST	5'SB FENCE	1954 1954	CHASE, DELINDA
002095002	909		BUSH ST	MH HOOKUPS	<mark>1966</mark>	CHIN, KAI YUEN & LI JU
002095002	909		BUSH ST	SHED	<mark>1966</mark>	CHIN, KAI YUEN & LI JU
002095002	909		BUSH ST	COVERED DECK	1966	CHIN, KAI YUEN & LI JU
002095002	909		BUSH ST	6'S/B FENCE	1966	CHIN, KAI YUEN & LI JU
002095002	909		BUSH ST	4'C/L FENCE	1966	CHIN, KAI YUEN & LI JU CHIN, KAI YUEN & LI JU
002095002	909		BUSH ST	CFW	1966	CHIN, KAI YUEN & LI JU
002095003	917		BUSH ST	COMM'L-RESTAURANT/LAUNDROMAT	1966	CHIN, KAI YUEN & LI JU
002095003	917		BUSH ST	CFW	1966	CHIN, KAI YUEN & LI JU
002095004	922		CEDAR ST	SINGLE FAMILY RES.	1926	ALEGRIA, JOSE R ET AL
002095004	922		CEDAR ST	5'S/B FENCE	1926	ALEGRIA, JOSE R ET AL
002095004	922		CEDAR ST	4 C/L FENCE	1926	ALEGRIA, JOSE R ET AL
002095004	922		CEDAR ST	CFW DENTLY DEC	1926	ALEGRIA, JOSE R ET AL
002095005	916		CEDAR ST	SINGLE FAMILY RES.	1949	GUNNELS, MERVA RUTH GUNNELS, MERVA RUTH
002095005	916		CEDAR SI	CINCLE BANILY BEC	1949	KULISEK, MICHAEL LOUIS JR
002095006	910		CEDAR SI	WAG PENCE	1946	KULISEK, MICHAEL LOUIS JR
002095006	910		CEDAR SI	CEW CEW	1946	KULISEK, MICHAEL LOUIS JR
002095006	910		CEDAR SI	CINCIE DAMIIV DEC	1941	MIEDO MAYINE D C MADOU E
002095007	908		CEDAR SI	AIC/I DENCE	1941	MIERS, MAXINE D & MARSH E MIERS, MAXINE D & MARSH E
002033007	1003		CHECTMIT CT	COMMUL. MINI MADT	1946	SINGH, AMARJOT
002100001	1003		CHESTNIT ST	SHED	1950	SINGH, AMARJOT
002100001	1003		CHESTNIT ST	SHED	1950	SINGH, AMARJOT
002100005	1105		CHESTNUT ST	COMM'IL-STORAGE BLDG	1926	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	COMM'L-STORAGE BLDG.	1926	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	COVERED PORCH	1950	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	PATIO COVER	1950	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	ENCLOSED PORCH	1950	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	MH HOOKUP	1950	GUNNELS, BENJAMIN
002100005	1105		CHESTNUT ST	ATTACHED GARAGE	1950	GUNNELS, BENJAMIN
002100006	1124		BUSH ST	SHED	1966	GUNNELS, BENJAMIN
002101003	362		11TH ST	MH HOOKUP	1966	OWENS, DENNIS L
002101006	1012		CEDAR ST	SINGLE FAMILY RES.	1945	HOFELDT, DORTHA M TR
002101006	1012		CEDAR ST	CFW	1945	HOFELDT, DORTHA M TR
002101008	1014		CEDAR ST	SINGLE FAMILY RES.	1965	SEXTON, JUSIN L & LILA L
002101008	1014		CEDAR ST	CFW	1965	SEXTON, JUSIN L & LILA L
002101008	1014		CEDAR ST	SHED	1965	SEXTON, JUSIN L & LILA L
002101008	1014		CEDAR ST	SHED FLOOR	1965	SEXTON, JUSIN L & LILA L SEXTON, JUSIN L & LILA L SEXTON, JUSIN L & LILA L
002101008	1014		CEDAR ST	4'C/L FENCE	1965	SEXTON, JUSIN L & LILA L
002101008	1014		CEDAR ST	C/L TOPRAIL	1965	SEXTON, JUSIN L & LILA L
002101009	1022		CEDAR ST	SINGLE FAMILY RES.	1948	MICHELI, RUTH ANN
002101009	1022		CEDAR ST	CFW	1948	MICHELI, RUTH ANN

APN	Loc #	Loc	Location or Street	4'C/L FENCE SINGLE FAMILY RES. CFW SHED 3-POLE FENCE 6'S/B FENCE SINGLE FAMILY RES. SINGLE FAMILY RES. SINGLE FAMILY RES. CFW STORAGE SHED SINGLE FAMILY RES. CFW 4'C/L FENCE SHED CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RESIDENCE CFW 6'S/B FENCE 4'C/L FENCE C/L PRIVACY SLATS MH HOOKUPS HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP HOOKUP SINGLE FAMILY RES. CVERED PORCH HOOKUP SINGLE FAMILY RES SINGLE FAMILY RES COVERED FAMILY RES SINGLE FAMILY RES CFW SHED DET GARAGE C/L 4 FENCE COVERED PORCH PORCH WALLS SINGLE FAMILY RES CFW PATIO COVER 6'S/B FENCE	YR BUILT	Assessed Owner
		Dir				
000101000	1022		CEDAD CT	ALC/I PENCE	1040	MICURIT DIPU ANN
002101009 002102001	371		11TU CT	CINCIP PAMILY DEC	1954	MICHELI, RUTH ANN GIBSON, CHARLES TILT
002102001	371		11TH ST	CEM	1954	GIBSON, CHARLES TILT
002102001	371		11TH CT	CLM	1954	GIBSON, CHARLES TILT
002102001	371		1170 07	2-DOLE FENCE	1954	CIBCON CUADLES TILT
002102001	371		1174 07	C'C/D FENCE	1954	GIBSON, CHARLES TILT GIBSON, CHARLES TILT
002102001	311		1174 CT	CINCLE FAMILY DEC	1964	FOSTER, LARRY D
002102007		W	CEDAR CT	CINCLE DAMILY DEC	1932	FOBES, DENNIS A
002121007	321	W	CEDAR SI	CEM CEM	1932	FOBES, DENNIS A
002121007	321	W	CEDAR ST	STOPACE SHED	1932	FOBES, DENNIS A
002121007	302	W	HAMILTON CT	SINGLE FAMILY DES	1920	BROOK FAMILY LIVING TRUST
002121008	302	W	HAMILTON ST	CPW	1920	BROOK FAMILY LIVING TRUST
002121008	302	W	HAMILTON ST	A'C/L FENCE	1920	BROOK FAMILY LIVING TRUST
002121009	302	W	HAMILTON ST	CHED CE	1920	BROOK FAMILY LIVING TRUST
002121009		W	HAMILTON ST	CEM	1920	BROOK FAMILY LIVING TRUST
002122001	251	W	CEDAR ST	SINGLE FAMILY PES	1938	WATSON, CARRIE M
002122001	251	W	CEDAR ST	A'C/L FENCE	1938	WATSON, CARRIE M
002122001	251	W	CEDAR ST	CEM	1938	WATSON, CARRIE M
002122002	241	W	CEDAR ST	STACLE FAMILY RESIDENCE	1920	EKLUND, ERIC & TERA
002122002	241	W	CEDAR ST	CFW CFW	1920	EKLUND, ERIC & TERA
002122002	241	W	CEDAR ST	6'S/B FENCE	1920	EKLUND, ERIC & TERA
002122002	241	W	CEDAR ST	4'C/L FENCE	1950	EKLUND, ERIC & TERA
002122002	241	W	CEDAR ST	C/L PRIVACY SLATS	1950	EKLUND, ERIC & TERA
002122003	110	W	HAMILTON ST	MH HOOKUPS	1966	KAHEMAN BEVERLY J
002122005	126	W	HAMILTON ST	HOOKUP	1966	CLOUGH, MARK & CONNIE JOHNSON, MICHAEL J & TONIA J BRIDGES, SHEILA
002122006	202	W	HAMILTON ST	HOOKUPS	1966	JOHNSON, MICHAEL J & TONIA J
002131001	101	•••	CEDAR ST	HOOKUP	1966	BRIDGES, SHEILA
002131003	113		CEDAR ST	HOOKUP	1967	SCRIPTER, CATHY
002131005	212		2ND ST	HOOKUP	1967	SPENCER, BONNIE L ET AL
002131010	121		CEDAR ST	HOOKUP	1967	HOLMES, VIRGINIA F HOLMES, VIRGINIA F
002131010	121		CEDAR ST	COVERED PORCH	1967	HOLMES, VIRGINIA F
002132009	214		HAMILTON ST	HOOKUP	1965	MONTES DE OCA, ALFRED
002132012	201		2ND ST	HOOKUP	<mark>1966</mark>	CAREY, HUBERT L ET AL
002132012	201		2ND ST	ADDITION	1966	CAREY, HUBERT L ET AL
002132013	220		HAMILTON ST	DETACHED GARAGE	1965	WILCOX, ROBERT A
002133005	242		4TH ST	SINGLE FAMILY RES.	1926	HOLBROOK, JORDAN & BRANDY
002133005	242		4TH ST	CFW	<mark>1950</mark>	HOLBROOK, JORDAN & BRANDY
002133005	242		4TH ST	SHED	1926	HOLBROOK, JORDAN & BRANDY
002133006	324		HAMILTON ST	SINGLE FAMILY RES	1906	STRESS, EDWARD J
002133008	316		HAMILTON ST	SINGLE FAMILY RES	1942	MELENDEZ, MATTHEW & KATIE
002133008	316		HAMILTON ST	CFW	<mark>1950</mark>	MELENDEZ, MATTHEW & KATIE
002133008	316		HAMILTON ST	SHED	1942	MELENDEZ, MATTHEW & KATIE
002133008	316		HAMILTON ST	DET GARAGE	1942	MELENDEZ, MATTHEW & KATIE
002133008	<mark>316</mark>		HAMILTON ST	C/L 4 FENCE	1950	MELENDEZ, MATTHEW & KATIE
002133008	<mark>316</mark>		HAMILTON ST	COVERED PORCH	1950	MELENDEZ, MATTHEW & KATIE
002133008	316		HAMILTON ST	PORCH WALLS	1950	MELENDEZ, MATTHEW & KATIE
002133009	304		HAMILTON ST	SINGLE FAMILY RES	1959	WRIGHT, NANCY A TR
002133009	304		HAMILTON ST	CFW	1959	WRIGHT, NANCY A TR
002133009	304		HAMILTON ST	PATIO COVER	1959	WRIGHT, NANCY A TR
002133009	304		HAMILTON ST	6'S/B FENCE	1959	WRIGHT, NANCY A TR

APN	 ,, 10 10.33.	• •				IAGE 7
002133009	APN	Loc #	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
0021330012 315 CEDAR ST HOOKUP 1956 CUTTS, LINDA 002133015 315 CEDAR ST HOOKUP 1956 CUTTS, LINDA 002133015 315 CEDAR ST HOOKUPS 1966 CUTTS, LINDA 002133015 311 CEDAR ST HOOKUPS 1966 CUTTS, LINDA 002135003 21 HANLITON ST HOOKUPS 1966 FORD, JAMES CERS CHARD & KATHY 002135003 221 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED ET AL 002135003 21 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1901 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1901 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1901 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1901 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1901 HANLITON ST DETACHED GARAGE 1965 MONTES DE CCA, ALFRED COLLISON 1902 MONTES DE CCA, ALFRE	002133009	304	HAMILTON ST	STORAGE	1959	WRIGHT, NANCY A TR
002133015 311 CEDAR ST HOOKUP 1966 WOTTS DE CCA, AFFRED ET AL 002135015 311 CEDAR ST HOOKUPS 1966 WOTTS DE CCA, AFFRED ET AL 002135013 221 HAMILTON ST MH HOOKUPS 1966 FORD, JAMES GEME CA, AFFRED ET AL 002135013 221 HAMILTON ST MH HOOKUPS 1966 FORD, JAMES GEME ARTHY 002135013 301 HAMILTON ST HOOKUPS GARAGE 1965 WOTTS DE CCA, AFFRED E ARTHY 002135013 301 HAMILTON ST HOOKUP GARAGE 1965 WOTTS DE CCA, AFFRED E ARTHY 002135001 301 HAMILTON ST HOOKUP GARAGE 1965 WOTTS DE CCA, AFFRED E ARTHY 002135001 301 HAMILTON ST GINCLE FAMILY RES. 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST GINCLE FAMILY RES. 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002136004 315 HAMILTON ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001 401 CEDAR ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001 401 CEDAR ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001 401 CEDAR ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001 401 CEDAR ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001 401 CEDAR ST C/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE T ET AL 002141001	002133009	304	HAMILTON ST	4'C/L FENCE W/TR	1959	WRIGHT, NANCY A TR
002135015 311 CEDAR ST HONGUES 1966 FORD, JAMES GENE MATHY 002135003 221 HAMILTON ST MH HOCKUES 1966 FORD, JAMES GENE MATHY 002135003 221 HAMILTON ST MH HOCKUES 1966 FORD, JAMES GENE MATHY 002135003 221 HAMILTON ST ME BOOKA, RICHARD & KATHY 002135001 301 HAMILTON ST DETACHED GARAGE 1965 MONTES DE OCA, RICHARD & KATHY 002136004 315 HAMILTON ST DETACHED GARAGE 1965 MONTES DE OCA, RICHARD & KATHY 002136004 315 HAMILTON ST DETACHED GARAGE 1965 MONTES DE OCA, RICHARD & KATHY 002136004 315 HAMILTON ST GENERALLE STATE SINGLE FAMILY RES, 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST G/L PRIVACY SLATS 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002136004 315 HAMILTON ST MMS FENCE 1954 KILPATRICK, LAWRENCE TET AL 002141001 401 CEDAR ST GFW FENCE 1954 KILPATRICK, LAWRENCE TET AL 002141001 401 CEDAR ST GFW FENCE 1954 KILPATRICK, LAWRENCE TET AL 002141001 401 CEDAR ST GFW FENCE 1954 KILPATRICK, LAWRENCE TET AL 002141001 401 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141002 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141002 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141003 407 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141004 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141005 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141006 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141005 407 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141006 405 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141007 406 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN F 002141006 407 CEDAR ST GFW FENCE 1958 SCHULZ, JOHN	002133012		CEDAR ST	HOOKUP	<mark>1966</mark>	CUTTS, LINDA
002135001 203 HAMILTON ST MH HOOKUPS 1966 FORD, JAMES GRNE 002135003 221 HAMILTON ST MH HOOKUPS 1965 MONTES DE CCA, RICHARD & KATHY 002135001 201 HAMILTON ST DETACHED GARAGE 1965 MONTES DE CCA, RICHARD & KATHY 002135001 301 HAMILTON ST DETACHED GARAGE 1965 MONTES DE CCA, RICHARD & KATHY 002135004 315 HAMILTON ST SINGLE PAMILY RES. 1964 MONTES DE CCA, RICHARD & KATHY 002135004 315 HAMILTON ST SINGLE PAMILY RES. 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GINGLE PAMILY RES. 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GINGLE PAMILY RES. 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST CFM 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GINGLE PAMILY RES. 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GFM 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GFM 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GFM 1954 KILPATRICK, LAWRENCE TET AL 002135004 315 HAMILTON ST GFM 1954 KILPATRICK, LAWRENCE TET AL 002141001 401 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141001 401 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141001 401 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141001 401 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141001 401 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141002 405 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141002 405 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141003 407 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141004 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141005 407 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141004 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141005 407 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141006 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141007 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141008 407 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR ST GFM 1958 SCHULZ, JOHN F 002141009 409 CEDAR			CEDAR ST	HOOKUPS	<mark>1966</mark>	MONTES DE OCA, ALFRED ET AL
002135003 221 HAMILTON ST DETACHED GARAGE 1955 MONTES DE CCA, RICHARD & KATHY OC135003 221 HAMILTON ST DETACHED GARAGE 1955 MONTES DE CCA, RICHARD & KATHY OC135001 301 AMILTON ST DETACHED GARAGE 1956 MONTES DE CCA, RICHARD & KATHY OC135001 301 AMILTON ST DETACHED GARAGE 1956 MONTES DE CCA, ALFRED CO. ALFRED			HAMILTON ST	MH HOOKUPS	1966	FORD, JAMES GENE
MARILION ST			HAMILTON ST	MH HOOKUP	1965	MONTES DE OCA, RICHARD & KATHY
			HAMILTON ST	DETACHED GARAGE	1965	MONTES DE OCA, RICHARD & KATHY
OCCUPATION STATE SINCLE PARTLY RES. 1954 KILDATRICK, LAWRENCE TET AL	002136001		HAMILTON ST	DETACHED CARACE	1965	MONTES DE OCA, ALFRED
O02136004 315			HAMILTON ST	SINCLE FAMILY DES	1963	KILDATRICK LAWDENCE T ET AL
O22136004 315			HAMILTON ST	6'C/L FENCE	1954	KILPATRICK, LAWRENCE I EI AL
1950 1954 ILIPATRICK, LAWRENCE T ET AL			HAMILTON ST	C/L PRIVACY SLATS	1954	KILPATRICK, LAWRENCE T ET AL
O22141001 O10 CEDAR ST			HAMILTON ST	WMS FENCE	1954	KILPATRICK, LAWRENCE T ET AL
OC2141001 401 CEDAR ST CFW 1938 SCHULZ, JOHN F			HAMILTON ST	CFW	1954	KILPATRICK, LAWRENCE T ET AL
O02141001 401 CEDAR ST CFW 1938 SCHULZ, JOHN F			CEDAR ST	SINGLE FAMILY RES.	1938	SCHULZ, JOHN F
O02141001 401 CEDAR ST 6'S/B FENCE 1938 SCHULZ, JOHN F			CEDAR ST	CFW	<mark>1938</mark>	SCHULZ, JOHN F
OC2141001 401 CEDAR ST 6'S/B FENCE 1931 SCHULZ, JOHN F			CEDAR ST	4'C/L FENCE	<mark>1938</mark>	SCHULZ, JOHN F
O02141002			CEDAR ST	6'S/B FENCE	<mark>1938</mark>	SCHULZ, JOHN F
002141002			CEDAR ST	SINGLE FAMILY RES.	1931	SUTHERLAND, SHARON F
O02141002			CEDAR ST	4'C/L FENCE	1931	SUTHERLAND, SHARON F
OC2141003			CEDAR ST	CFW	1931	SUTHERLAND, SHARON F
OC2141003	002141002		CEDAR ST	6'S/B FENCE	1938	SUTHERLAND, SHARON F
OCCUPATION OCC			CEDAR SI	CEW CEW	1926	CUTUEDIAND CHARON E
O02141004 409			CEDAR SI	4'C/I FENCE	1948	CUTUEDIAND CUADON E
1948 MONTES DE OCA, ALFRED ET AL			CEDAR ST	SINGLE FAMILY RES	1948	MONTES DE OCA ALERED ET AL
002141004 409 CEDAR ST			CEDAR ST	CFW	1948	MONTES DE OCA, ALFRED ET AL
O2141005			CEDAR ST	4'C/L FENCE	1948	MONTES DE OCA. ALFRED ET AL
OCC141005			CEDAR ST	SINGLE FAMILY RES.	1961	TAYLOR, GEORGE G JR &JANICE A
O02141005	002141005	411	CEDAR ST	CFW	1961	TAYLOR, GEORGE G JR &JANICE A
O02141005	002141005		CEDAR ST	4'C/L FENCE	<mark>1961</mark>	TAYLOR, GEORGE G JR &JANICE A
O02141005			CEDAR ST	6'S/B FENCE	<mark>1961</mark>	TAYLOR, GEORGE G JR &JANICE A
002141005 411 CEDAR ST SIDE SHED 1961 TAYLOR, GEORGE G JR &JANICE A 002141006 272 5TH ST SINGLE FAMILY RES. 1932 OTT, MARTHA ET AL 002141006 272 5TH ST CFW 1932 OTT, MARTHA ET AL 002141006 272 5TH ST SHED 1932 OTT, MARTHA ET AL 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1932 OTT, MARTHA ET AL 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1931 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1931 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D			CEDAR ST	SHED	<mark>1961</mark>	TAYLOR, GEORGE G JR &JANICE A
002141006 272 5TH ST CFW 1932 OTT, MARTHA ET AL 002141006 272 5TH ST CFW 1932 OTT, MARTHA ET AL 002141006 272 5TH ST SHED 1932 OTT, MARTHA ET AL 002141006 272 5TH ST SHED 1932 OTT, MARTHA ET AL 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1931 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1931 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST SINGLE FAMILY RES.			CEDAR_ST	SIDE SHED	1961	TAYLOR, GEORGE G JR &JANICE A
002141006 272 5TH ST CFW 1932 OTT, MARTHA ET AL 002141006 272 5TH ST SHED 1932 OTT, MARTHA ET AL 002141006 272 5TH ST SHED 1932 OTT, MARTHA ET AL 002141009 408 HAMILTON ST SINGLE FAMILY RES. 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141009 408 HAMILTON ST CFW 1926 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1931 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1926 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST SINGLE FAMILY RES.	002141006		5TH ST	SINGLE FAMILY RES.	1932	OTT, MARTHA ET AL
002141006 272 5TH ST	002141006	272	STH ST	ALC/P PENCE	1932	OTT, MARTHA ET AL
1932 Oliver Oli			STH ST	4 S/B FENCE	1932	OTT, MARTHA ET AL
1920 1931 1932 1931			HAMILTON CT	CINCIP PAMILY DEC	1934	DE VOE VIRCINIA I
1926 DE VOE, VIRGINIA L			HAMILTON ST	SINGLE FAMILY RES	1931	DE VOE VIRGINIA I.
002141010 408 HAMILTON ST 2'S/B FENCE 1926 DE VOE, VIRGINIA L 002141010 402 HAMILTON ST SINGLE FAMILY RES. 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST 4'C/L FENCE 1932 MACDONALD FAMILY TRUST 1932 MACDONALD FAMILY TRU			HAMILTON ST	CFW CFW	1926	
002141010 402 HAMILTON ST SINGLE FAMILY RES. 1932 MACDONALD FAMILY TRUST			HAMILTON ST	2'S/B FENCE	1926	DE VOE. VIRGINIA L
002141010 402 HAMILTON ST 4'C/L FENCE 1932 MACDONALD FAMILY TRUST 002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST MH HOOKUPS 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4'C/L FENCE 1926 JONES, VICTOR J & RENEE D			HAMILTON ST	SINGLE FAMILY RES.	1932	
002141010 402 HAMILTON ST CFW 1932 MACDONALD FAMILY TRUST 002141011 420 HAMILTON ST MH HOOKUPS 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4 °C/L FENCE 1926 JONES, VICTOR J & RENEE D	002141010	402	HAMILTON ST	4'C/L FENCE	1932	MACDONALD FAMILY TRUST
002141011 420 HAMILTON ST MH HOOKUPS 1966 EQUITY TRUST COMPANY FB0 BRENT 002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FB0 BRENT 002141011 420 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FB0 BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4 C/L FENCE 1926 JONES, VICTOR J & RENEE D	002141010		HAMILTON ST	CFW	1932	MACDONALD FAMILY TRUST
002141011 420 HAMILTON ST CABIN 1966 EQUITY TRUST COMPANY FBO BRENT 002141011 420 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4 C/L FENCE 1926 JONES, VICTOR J & RENEE D			HAMILTON ST	MH HOOKUPS	1966	EQUITY TRUST COMPANY FBO BRENT
002141011 420 HAMILTON ST CABIN FIXTURES 1966 EQUITY TRUST COMPANY FBO BRENT 002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4 'C/L FENCE 1926 JONES, VICTOR J & RENEE D			HAMILTON ST	CABIN	1966	EQUITY TRUST COMPANY FBO BRENT
002141013 416 HAMILTON ST SINGLE FAMILY RES. 1926 JONES, VICTOR J & RENEE D 002141013 416 HAMILTON ST 4'C/L FENCE 1926 JONES, VICTOR J & RENEE D			HAMILTON ST	CABIN FIXTURES	1966	EQUITY TRUST COMPANY FBO BRENT
UUZI4IUI3 416 HAMILTON ST 4'C/L FENCE 1926 JONES, VICTOR J & RENEE D			HAMILTON ST	SINGLE FAMILY RES.	1926	
	002141013	416	HAMILTON ST	4 C/L FENCE	1926	JONES, VICTOR J & RENEE D

APN	Loc #	Loc Dir	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
		DIL		CFW SINGLE FAMILY RES. 3'C/L FENCE CFW DUPLEX CFW DUPLEX CFW 6'C/L FENCE 4'C/L FENCE 4'C/L FENCE 6'S/B FENCE SHED (CABIN) SINGLE FAMILY RES. 6'S/B FENCE SHED SINGLE FAMILY RES. BUNKHOUSE BUNKHOUSE FIXTURES 6'S/B FENCE CFW CARPORT SINGLE FAMILY RES. CFW 6'S/B FENCE 4'C/L FENCE 3'PICKET FENCE SINGLE FAMILY RES. SINGLE FAMILY RES. 6'S/B FENCE CFW SINGLE FAMILY RES. 6'C/L FENCE 6'S/B FENCE CFW SINGLE FAMILY RES. 6'C/L FENCE 6'S/B FENCE SHED CFW SINGLE FAMILY RES. CFW 6'S/B FENCE HOOKUP CFW BUNKHOUSE SHED SINGLE FAMILY RES. DETACHED GARAGE 3'C/L FENCE W/TR CFW AWNING 6'S/B FENCE		
002141013	416		HAMILTON ST	CFW	<mark>1926</mark>	JONES, VICTOR J & RENEE D
002142001	503		CEDAR ST	SINGLE FAMILY RES.	1926	DOYLE, MICHAEL J
002142001	503		CEDAR ST	3'C/L FENCE	1926	DOYLE, MICHAEL J
002142001	503		CEDAR ST	CFW	1926	DOYLE, MICHAEL J
002142002	509		CEDAR ST	DUPLEX	1926	JRT INVESTMENTS LLC
002142002	509		CEDAR ST	CFW	1926	JRT INVESTMENTS LLC
002142005	<mark>514</mark>		HAMILTON ST	SINGLE FAMILY RES.	1932	BAYSINGER, CLIFFORD B& LISA L J
002142005	514		HAMILTON ST	CFW	1932	BAYSINGER, CLIFFORD B& LISA L J
002142005	514		HAMILTON ST	6'C/L FENCE	1932	BAYSINGER, CLIFFORD B& LISA L J
002142005	514		HAMILTON ST	4'C/L FENCE	1932	BAYSINGER, CLIFFORD B& LISA L J
002142005	514		HAMILTON ST	6'S/B FENCE	1932	BAYSINGER, CLIFFORD B& LISA L J
002142006	508		HAMILTON ST	SHED (CABIN)	1896	JEFFERSON, APRIL
002142007	506		HAMILTON ST	SINGLE FAMILY RES.	1934	JEFFERSON, APRIL
002142007	506		HAMILTON ST	6'S/B FENCE	1934	JEFFERSON, APRIL
002142007	506		HAMILTON ST	SHED	1934	JEFFERSON, APRIL
002142008	502		HAMILTON ST	SINGLE FAMILY RES.	1938	ZOMAR, GAYLE I
002142008	502		HAMILTON ST	BUNKHOUSE	1938	ZOMAR, GAYLE I
002142008	502		HAMILTON ST	BUNKHOUSE FIXTURES	1938	ZOMAR, GAYLE I
002142008	502		HAMILTON ST	6'S/B FENCE	1938	ZOMAR, GAYLE I
002142008	502		HAMILTON ST	CFW	1938	ZOMAR, GAYLE I
002142008	502		HAMILTON ST	CARPORT	1938	ZOMAR, GAYLE I
002142009	512		HAMILTON ST	SINGLE FAMILY RES.	1949	SIMON, DICK W & JANELLE J TR
002142009	<mark>512</mark>		HAMILTON ST	SINGLE FAMILY RES.	1949	SIMON, DICK W & JANELLE J TR
002142009	512 512		HAMILTON ST	CFW	1949	SIMON, DICK W & JANELLE J TR
002142009	512		HAMILTON ST	6'S/B FENCE	1949	SIMON, DICK W & JANELLE J TR
002142009	512		HAMILTON ST	4 C/L FENCE	1949	SIMON, DICK W & JANELLE J TR
002142009	512 515		GEDIN OF	3 PICKET FENCE	1949	SIMON, DICK W & JANELLE J TR
002142011	515		CEDAR SI	SINGLE FAMILY RES.	1942	MONTES DE OCA, RICHARD & KATHY MONTES DE OCA, RICHARD & KATHY
002142011 002142011	515		CEDAR ST	SINGLE FAMILY RES.	1938	MONTES DE OCA, RICHARD & KATHY
002142011	515		CEDAR SI	CPW FENCE	1942	MONTES DE OCA, RICHARD & KATHY
002142011	601		CEDAR SI	CINCLE DAMILY DEC	1938	MONTES DE OCA, RICHARD & KATHY SIMPKINS, RONDA LEE TR ET AL
002143001	601		CEDAR SI	SINGLE FAMILI RES.	1952	CIMPAINS, KONDA LEE IR EI AL
002143001	601		CEDAR SI	CIC/D PENCE	1952	SIMPKINS, RONDA LEE TR ET AL SIMPKINS, RONDA LEE TR ET AL
002143001	601		CEDAR SI	GUED LENCE	1952	SIMPKINS, RONDA LEE TR ET AL
002143001	601		CEDAR ST	CPW	1952	SIMPKINS, RONDA LEE TR ET AL
002143001	613		CEDAR ST	SINGLE FAMILY DES	1932	GROVER, DAVID T
002143002	613		CEDAR ST	CEW CEW	1945	GROVER, DAVID T
002143002	613		CEDAR ST	6'S/B FENCE	1945	GROVER, DAVID T
002143002	615		CEDAR ST	HOOKIID	1965	SALAZ, RAMON & ERNESTINE
002143003	615		CEDAR ST	CEM	1965	SALAZ, RAMON & ERNESTINE
002143004	619		CEDAR ST	RINKHOUSE	1920	JENSEN, TODD
002143004	619		CEDAR ST	SHED	1920	JENSEN, TODD
002143004	618		HAMILTON ST	SHED	1887	BENDER, WILLIAM F & ISABELLA
002143006	614		HAMILTON ST	SINGLE FAMILY RES	1947	EVENSON, WAYNE ALLEN
002143006	614		HAMILTON ST	DETACHED GARAGE	1947	EVENSON, WAYNE ALLEN
002143006	614		HAMILTON ST	3'C/L FENCE W/TR	1947	EVENSON, WAYNE ALLEN
002143006	614		HAMILTON ST	CFW CFW	1947	EVENSON, WAYNE ALLEN
002143006	614		HAMILTON ST	AWNING	1947	EVENSON, WAYNE ALLEN
002143006	614		HAMILTON ST	6'S/B FENCE	1947	EVENSON, WAYNE ALLEN

APN	Loc #	Loc Dir	Location or Street	SINGLE FAMILY RES. CFW 6'S/B FENCE WMS FENCE WMS FENCE SINGLE FAMILY RES. 6'S/B FENCE CFW 5'S/B FENCE SINGLE FAMILY RES. CFW 5'S/B FENCE 4'C/L FENCE SHED COLOR CFW WOOD DECK HOOKUP CARPORT PATIO COVER SINGLE FAMILY RES. 4'C/L FENCE CFW DETACHED GARAGE AWNING SINGLE FAMILY RES. 5'C/L FENCE SHED DETACHED GARAGE SINGLE FAMILY RES. 4'C/L FENCE C/L TOPRAIL CFW SINGLE FAMILY RES. 5'S/B FENCE CFW SINGLE FAMILY RES. 5'S/B FENCE CFW SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. S'S/B FENCE SINGLE FAMILY RES. S'S/B FENCE SINGLE FAMILY RES. SHED CFW 4'S/B FENCE SINGLE FAMILY RES.	YR BUILT	Assessed Owner
002143007	602		HAMILTON ST	SINGLE FAMILY RES.	1926	ANTHONY, AHREN
002143007	602		HAMILTON ST	CFW	<mark>1926</mark>	ANTHONY, AHREN
002143007	602		HAMILTON ST	6'S/B FENCE	<mark>1926</mark>	ANTHONY, AHREN ANTHONY, AHREN
002143007	602		HAMILTON ST	WMS FENCE	<mark>1926</mark>	ANTHONY, AHREN
002151002	711		CEDAR ST	SINGLE FAMILY RES.	<mark>1920</mark>	DUKE, DARYL
002151002	711		CEDAR ST	6'S/B FENCE	<mark>1920</mark>	DUKE, DARYL
002151002	711		CEDAR ST	CFW	1920	DUKE, DARYL
002151003	713		CEDAR ST	SINGLE FAMILY RES.	1955	MATHERS, HARRY R & VIVIAN E
002151003	713		CEDAR ST	CFW	1955	MATHERS, HARRY R & VIVIAN E MATHERS, HARRY R & VIVIAN E MATHERS, HARRY R & VIVIAN E
002151003	713		CEDAR ST	5'S/B FENCE	1955	MATHERS, HARRY R & VIVIAN E
002151003	713		CEDAR ST	4'C/L FENCE	1955	MATHERS, HARRY R & VIVIAN E
002151003	713		CEDAR ST	SHED	1955	MATHERS, HARRY R & VIVIAN E
002151003	713		CEDAR ST	COLOR CFW	1955	MATHERS, HARRY R & VIVIAN E
002151003 002151004	713		CEDAR SI	MOOD DECK	1955	MATHERS, HARRY R & VIVIAN E
002151004	719		CEDAR ST	CARRORE	1965	SIENUVIUM, BELLY
002151004	719		CEDAR SI	DATE COURT	1965	STENOVICH, BETTY STENOVICH, BETTY
002151004	713		OTU CT	CINCLE FAMILY DEC	1905	DANN, MARY L
002151005	242		STU ST	AIC/L PENCE	1926	DANN, MARY L
002151005	242		8TH ST	CFW	1926	DANDY MADDY Y
002151005	222		8TH ST	DETACHED CAPACE	1920	ZACHTE DOREDT D & CHADON A TO
002151006	222		8TH ST	AWNING	1920	ZACHTE PORERT D & SHARON A TR
002151008	708		HAMILTON ST	SINGLE FAMILY RES	1926	ANTHONY ALLEN R & KATHLEEN C
002151008	708		HAMILTON ST	5'C/L FENCE	1926	ANTHONY, ALLEN R & KATHLEEN G
002151008 002151008	708		HAMILTON ST	SHED	1926	ZACHTE, ROBERT D & SHARON A TR ZACHTE, ROBERT D & SHARON A TR ZACHTE, ROBERT D & SHARON A TR ANTHONY, ALLEN R & KATHLEEN G ANTHONY, ALLEN R & KATHLEEN G ANTHONY, ALLEN R & KATHLEEN G ALEXANDER, JEFFERY D TR ET AL BRAGG, BORBY E & ANNA
002151009	702		HAMILTON ST	DETACHED GARAGE	1914	ALEXANDER, JEFFERY D TR ET AL
002152002	807		CEDAR ST	SINGLE FAMILY RES.	1926	BRAGG, BOBBY E & ANNA
002152002	807		CEDAR ST	4'C/L FENCE	<mark>1926</mark>	BRAGG, BOBBY E & ANNA
002152002	807		CEDAR ST	C/L TOPRAIL	<mark>1926</mark>	BRAGG, BOBBY E & ANNA BRAGG, BOBBY E & ANNA
002152002	807		CEDAR ST	CFW	<mark>1926</mark>	BRAGG, BOBBY E & ANNA
002152003	811		CEDAR ST	SINGLE FAMILY RES.	1932	ZEITER, CHRISTINA LINK
002152003	811		CEDAR ST	5'S/B FENCE	<mark>1932</mark>	ZEITER, CHRISTINA LINK
002152003	811		CEDAR ST	CFW	<mark>1932</mark>	ZEITER, CHRISTINA LINK
002152004	815		CEDAR ST	SINGLE FAMILY RES.	1932	KAFTON, CLARK W & PHYLLIS
002152004	815		CEDAR ST	CFW	1932	KAFTON, CLARK W & PHYLLIS
002152004	815		CEDAR ST	6'S/B FENCE	1932	KAFTON, CLARK W & PHYLLIS
002152004	815 821 821		CEDAR ST	4 C/L FENCE	1932	KAFTON, CLARK W & PHYLLIS
002152005	821		CEDAR ST	SINGLE FAMILY RES.	1941	WILSON, CODY
002152005	821		CEDAR ST	CPW	1941	WILSON, CODY
002152005 002152005	821		CEDAR ST	SIED PENCE	1941	WILSON, CODY
002152005	021		CEDAR SI	ALBITAIC	1941	WILSON, CODY WILSON, CODY
002152006	021		UNMILITAN CT	CINCIE PAMILY DEC	1920	AQUARIAN MINING EXPLORATION, IN
002152006	824		HAMILTON ST	CUPD PARILLI RES.	1930	AQUARIAN MINING EXPLORATION, IN
002152006	824		HAMILTON ST	CEM	1920	AQUARIAN MINING EXPLORATION, IN
002152006	824		HAMILTON ST	4'S/B FENCE	1938	AQUARIAN MINING EXPLORATION, IN
002152007	818		HAMILTON ST	SINGLE FAMILY RES	1908	ESPARZA CARLOS & SARRA
002152007	818		HAMILTON ST	SINGLE FAMILY RES	1908	ESPARZA, CARLOS & SABRA ESPARZA, CARLOS & SABRA
002152007	818		HAMILTON ST	CFW CFW	1932	ESPARZA, CARLOS & SABRA
002152007	818		HAMILTON ST	5'S/B FENCE	1932	ESPARZA, CARLOS & SABRA
	020			,	2552	DITTELLI, CIRCOO & DIDITE

APN	Loc #	Loc Dir	Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
		DII		3'PICKET FENCE PICKET FENCE SINGLE FAMILY RES. CFW LOFT WOOD STAIRS WOOD DECK SINGLE FAMILY RES. COMM'L-CHURCH W/SUNDAY SCHOO		
002152007	818		HAMILTON ST	3'PICKET FENCE	<mark>1932</mark>	ESPARZA, CARLOS & SABRA
002152007	818		HAMILTON ST	PICKET FENCE	<mark>1908</mark>	ESPARZA, CARLOS & SABRA
002152009	808		HAMILTON ST	SINGLE FAMILY RES.	1932	TERRELL, JASON P
002152009	808		HAMILTON ST	CFW	1932	TERRELL, JASON P
002152009	808		HAMILTON ST	LOFT	1932	TERRELL, JASON P
002152009	808		HAMILTON ST	WOOD STAIRS	1932	TERRELL, JASON P
002152009	808		HAMILTON ST	WOOD DECK	1932	TERRELL, JASON P
002152010	806		HAMILTON ST	SINGLE FAMILY RES.	1935	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	COMM'L-CHURCH W/SUNDAY SCHOO	1920	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	CFW	1920	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	PORCH	1920	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	SHED	1920	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	4 C/L FENCE	1935	CARLIN UNITED METHODIST CHURCH
002152010	806		HAMILTON ST	CFW	1935	CARLIN UNITED METHODIST CHURCH
002153001	903		CEDAR ST	SINGLE FAMILY RES.	1914	LESTER, THOMAS M & KAREN
002153001	903		CEDAR ST	SINGLE FAMILY RES.	1950	LESTER, THOMAS M & KAREN LESTER, THOMAS M & KAREN
002153001	903		CEDAR ST	4 C/L FENCE W/TR	1914	LESTER, THOMAS M & KAREN LESTER, THOMAS M & KAREN
002153001	903		CEDAR ST	4 C/L FENCE W/TR	1950	LESTER, THOMAS M & KAREN LESTER, THOMAS M & KAREN
002153001	903		CEDAR SI	CINCIP DAMILY DEC	1914	HARRER, WILLIAM
002153002	907		CEDAR ST	ALCA PENCE	1920	HARRER, WILLIAM
002153002 002153002	907		CEDAR SI	CEM CEM	1920	HARRER, WILLIAM
002153002	907		CEDAR SI	CINCLE EAMILY DEC	1920	JOYCE, VERONICA
002153003	911		CEDAR SI	CEW CEW	1920	JOYCE, VERONICA
002153003	911		CEDAR SI	CIW EPNCE	1920	JOYCE, VERONICA
002153003	912		CEDAR SI	SINCLE FAMILY DES	1926	HALE, BRENDA A
002153004	913		CEDAR SI	6'C/L FENCE	1926	HALE, BRENDA A
002153004	913		CEDAR ST	CEM	1926	HALE, BRENDA A
002153004	916		CEDAR ST	STNGLE FAMILY RES	1927	DANN, PEARL L
002153006	916		CEDAR ST	CFW CFW	1914	DANN, PEARL L
002153007	924		HAMILTON ST	SINGLE FAMILY RES.	1926	HAZZARD, MICHAEL K
002153007	924		HAMILTON ST	SINGLE FAMILY RES.	1931	HAZZARD, MICHAEL K
002153008	918		HAMILTON ST	SINGLE FAMILY RES.	1938	GUINN, ANDY & MARJORIE M
002153008	918		HAMILTON ST	4'C/L FENCE	1938	GUINN, ANDY & MARJORIE M
002153008	918		HAMILTON ST	6'S/B FENCE	1938	GUINN, ANDY & MARJORIE M
002153008	918		HAMILTON ST	CFW	1938	GUINN, ANDY & MARJORIE M
002153009	914		HAMILTON ST	SINGLE FAMILY RES.	1953	DTK PROPERTIES LLC
002153009	914		HAMILTON ST	CFW	1953	DTK PROPERTIES LLC
002153010	910		HAMILTON ST	BUNKHOUSE (RES)	1920	OWENS, BRADLEY N & KATHRYN G
002153010	910		HAMILTON ST	HOOKUP	1920	OWENS, BRADLEY N & KATHRYN G
002153011	906		HAMILTON ST	SINGLE FAMILY RES.	1943	OWENS, BRADLEY N & KATHRYN G MESHEFSKI, SCOTT B & ELLEN
002153011	906		HAMILTON ST	CFW	1943	MESHEESKI SCOTT B & ELLEN
002153011	808 808 806 806 806 806 806 903 907 907 911 913 916 918 918 918 918 919 906 906 9002 902		HAMILTON ST	SINGLE FAMILY RES. CFW LOFT WOOD STAIRS WOOD DECK SINGLE FAMILY RES. COMM'L-CHURCH W/SUNDAY SCHOO CFW PORCH SHED 4'C/L FENCE CFW SINGLE FAMILY RES. SINGLE FAMILY RES. 4'C/L FENCE W/TR 4'C/L FENCE W/TR CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. CFW 6'C/L FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. SINGLE FAMILY RES. CFW SINGLE FAMILY RES. SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. SINGLE FAMILY RES. CFW SINGLE FAMILY RES. 4'C/L FENCE SINGLE FAMILY RES.	1943	MESHEFSKI, SCOTT B & ELLEN MESHEFSKI, SCOTT B & ELLEN GARAMENDI, MITCHELL GUY
002153011	906		HAMILTON ST	SHED	1943	MESHEFSKI, SCOTT B & ELLEN
002153012	902		HAMILTON ST	SINGLE FAMILY RES.	1914	GARAMENDI, MITCHELL GUY
002153012	902		HAMILTON ST	4'C/L FENCE	1914	GARAMENDI, MITCHELL GUY
002153012	902		HAMILTON ST	CFW	1914	GARAMENDI, MITCHELL GUY
002154001	709		HAMILTON ST	SINGLE FAMILY RES.	1939	ROWE, BRADLEY
002154001	709		HAMILTON ST	4'C/L FENCE	1939	ROWE, BRADLEY
002154002	182		BTH ST	SINGLE FAMILY RES.	1942	WHITE, DANIEL W

APN	Loc #	Loc	Location or Street	4'C/L FENCE WMS FENCE SHED CFW CFW 4'C/L FENCE CFW 4'C/L FENCE CFW WMS FENCE SINGLE FAMILY RES. SINGLE FAMILY RES. CFW WMS FENCE DUPLEX CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SHED SINGLE FAMILY RES. WMS FENCE CFW SHED SINGLE FAMILY RES. WMS FENCE CFW SINGLE FAMILY RES. WMS FENCE CFW SINGLE FAMILY RES. WMW FENCE 6'C/L FENCE 3'S/B FENCE CFW SINGLE FAMILY RES. CFW 6'S/B FENCE CFW 6'S/B FENCE CABIN CABIN FIXTURES SINGLE FAMILY RES. CFW WMS FENCE CABIN CABIN FIXTURES SINGLE FAMILY RES. CFW WMS FENCE SINGLE FAMILY RES. CFW WIRE FENCE SHED SINGLE FAMILY RES.	YR BUILT	Assessed Owner
		Dir				
002154002	182		8TH ST	ALC/L PRICE	1040	WHITE, DANIEL W
002154002	182		OTU CT	MMC PENCE	1942	WHITE, DANIEL W WHITE, DANIEL W
002154002	182		OTH SI	CUTD CUTD	1942	WHITE, DANIEL W
002154002	182		RTH ST	CEM	1942	WHITE, DANIEL W
002154003	162		OTH CT	CPW	1932	JOHNSTON, DONALD J & KEELY J TR
002154003	162		8TH ST	4'C/L PENCE	1932	JOHNSTON DONALD J & KEELY J TR
002154003	162		8TH ST	CFW	1932	JOHNSTON, DONALD J & KEELY J TR JOHNSTON, DONALD J & KEELY J TR
002154004	122		8TH ST	SINGLE FAMILY RES.	1926	JOHNSTON, DONALD J & KEELY J TR
002154004	122		8TH ST	SINGLE FAMILY RES.	1926	JOHNSTON, DONALD J & KEELY J TR
002154004	122		8TH ST	CFW	1926	TOUNSTON DONALD I & KEELV I TP
002154004	122		8TH ST	WMS FENCE	1926	JOHNSTON, DONALD J & KEELY J TR SHEEN, KENDALL L ET AL SHEEN, KENDALL L ET AL CARPENTER, JOSEPH C & CATRINA M CARPENTER, JOSEPH C & CATRINA M
002154005	724		RAILROAD ST	DUPLEX	1920	SHEEN, KENDALL L ET AL
002154005	724		RAILROAD ST	CFW	1920	SHEEN, KENDALL L ET AL
002154006	712		RAILROAD ST	SINGLE FAMILY RES.	1926	CARPENTER, JOSEPH C & CATRINA M
002154006	712		RAILROAD ST	4'C/L FENCE	1926	CARPENTER, JOSEPH C & CATRINA M
002154006	712		RAILROAD ST	CFW	<mark>1926</mark>	CARPENTER, JOSEPH C & CATRINA M CARPENTER, JOSEPH C & CATRINA M
002154006	712		RAILROAD ST	SHED	<mark>1926</mark>	CARPENTER, JOSEPH C & CATRINA M
002154007	<mark>708</mark>		RAILROAD ST	SINGLE FAMILY RES.	<mark>1926</mark>	SHEEN, KENDALL L & MARY L ET AL
002154007	708		RAILROAD ST	WMS FENCE	<mark>1926</mark>	SHEEN, KENDALL L & MARY L ET AL SHEEN, KENDALL L & MARY L ET AL
002154007	708		RAILROAD ST	CFW	<mark>1926</mark>	SHEEN, KENDALL L & MARY L ET AL
002154008	<mark>131</mark>		7TH ST	SINGLE FAMILY RES.	<mark>1926</mark>	NICHOLS, DIANA M NICHOLS, DIANA M
002154008	<mark>131</mark>		7TH ST	WMS FENCE	<mark>1926</mark>	NICHOLS, DIANA M
002154008	131		7TH ST	CFW	<mark>1926</mark>	NICHOLS, DIANA M
002154011	701		HAMILTON ST	SINGLE FAMILY RES.	1914	JOHNSTON, DONALD J & KEELY J TR
002154011	701		HAMILTON ST	WMW FENCE	1914	JOHNSTON, DONALD J & KEELY J TR
002154011	701		HAMILTON ST	6'C/L FENCE	1914	JOHNSTON, DONALD J & KEELY J TR JOHNSTON, DONALD J & KEELY J TR
002154011	701		HAMILTON ST	3'S/B FENCE	1914	JOHNSTON, DONALD J & KEELY J TR
002154011	701		HAMILTON ST	CINCIE ENNIES DEC	1914	JOHNSTON, DONALD J & KEELY J TR
002155001 002155001	141 141		omi cm	CEM	1930	HARPER, JON C HARPER, JON C
002155001	141		OTH SI	CLC/D PENCE	1930	HARPER, JON C
002155001	141		oru er	O D/D PENCE	1930	HARPER, JON C
002155001	141		OTH ST	C'C/D PENCE	1930	HARPER, JON C
002155001	141		ATH ST	WMS FENCE	1930	HARPER, JON C
002155001	141		8TH ST	CARIN	1930	HARPER, JON C
002155001	141		8TH ST	CABIN FIXTURES	1930	HARPER, JON C
002155003	807		HAMILTON ST	SINGLE FAMILY RES.	1945	BALLARD, TIMOTHY S
002155003	807		HAMILTON ST	CFW	1945	BALLARD, TIMOTHY S
002155003	807		HAMILTON ST	WMS FENCE	1945	BALLARD, TIMOTHY S
002155003	807		HAMILTON ST	AWNING	1945	BALLARD, TIMOTHY S
002155004	811		HAMILTON ST	SINGLE FAMILY RES.	<mark>1926</mark>	WRIGHT, NANCY A TR WRIGHT, NANCY A TR
002155004	811		HAMILTON ST	CFW	<mark>1926</mark>	WRIGHT, NANCY A TR
002155005	<mark>815</mark>		8TH ST RAILROAD ST S	SINGLE FAMILY RES.	1950	KAFTON, CLARK SCOTT
002155005	<mark>815</mark>		HAMILTON ST	CFW	1942	KAFTON, CLARK SCOTT
002155005	815		HAMILTON ST	WMS FENCE	1942	KAFTON, CLARK SCOTT
002155006	<mark>819</mark>		HAMILTON ST	SINGLE FAMILY RES.	<mark>1920</mark>	Y & T INVESTMENTS LLC
002155006	819		HAMILTON ST	CFW	1920	Y & T INVESTMENTS LLC
002155006	819		HAMILTON ST	WIRE FENCE	1920	Y & T INVESTMENTS LLC
002155006	819		HAMILTON ST	SHED	1920	Y & T INVESTMENTS LLC
002155007	823		HAMILTON ST	SINGLE FAMILY RES.	1920	GRENFELL, SANDRA MARIE

APN	Loc #	Loc Dir	Location or Street	WMS FENCE CFW DETACHED GARAGE SINGLE FAMILY RES. 4'C/L FENCE AWNING CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. 4'C/L FENCE SHED CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. 5TORAGE 4'C/L FENCE CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. WMS FENCE C/L PENCE CFW SINGLE FAMILY RES. WMS FENCE 4'C/L FENCE CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. SINGLE FAMILY RES. SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES. SINGLE FAMILY RES. 4'C/L FENCE CFW SINGLE FAMILY RES.	YR BUILT	Assessed Owner
002155007	823		HAMILTON ST	WMS FENCE	1920	GRENFELL, SANDRA MARIE
002155007	823		HAMILTON ST	CFW	1920	GRENFELL, SANDRA MARIE
002155008	132		9TH ST	DETACHED GARAGE	1930	WRIGHT, LARRY & KATHY
002155011	816		RAILROAD ST	SINGLE FAMILY RES.	1920	GREEN, DEREK C
002155011	816		RAILROAD ST	4'C/L FENCE	1920	GREEN, DEREK C
002155011	816		RAILROAD ST	AWNING	<mark>1920</mark>	GREEN, DEREK C
002155011	816		RAILROAD ST	CFW	<mark>1920</mark>	GREEN, DEREK C
002155012	812		RAILROAD ST	SINGLE FAMILY RES.	<mark>1937</mark>	GREEN, DEREK C MIRELES, LUIS ET AL
002155012	812		RAILROAD ST	4'C/L FENCE	<mark>1937</mark>	MIRELES, LUIS ET AL
002155012	812		RAILROAD ST	CFW	<mark>1937</mark>	MIRELES, LUIS ET AL
002155013	808		RAILROAD ST	SINGLE FAMILY RES.	<mark>1967</mark>	KRANTZ, TERRY E
002155013	808		RAILROAD ST	4'C/L FENCE	<mark>1967</mark>	KRANTZ, TERRY E
002155013	808		RAILROAD ST	CFW	<mark>1967</mark>	KRANTZ, TERRY E
002155014	802		RAILROAD ST	SINGLE FAMILY RES.	<mark>1897</mark>	PEARSON, BETTY F ETAL PEARSON, BETTY F ETAL
002155014	802		RAILROAD ST	4'C/L FENCE	<mark>1897</mark>	PEARSON, BETTY F ETAL
002155014	802		RAILROAD ST	SHED	<mark>1897</mark>	PEARSON, BETTY F ETAL PEARSON, BETTY F ETAL
002155014	802		RAILROAD ST	CFW	1897	PEARSON, BETTY F ETAL
002155015	820		RAILROAD ST	SINGLE FAMILY RES.	1926	WILSON, TINA M
002155015	820		RAILROAD ST	STORAGE	1926	WILSON, TINA M
002155015	820		RAILROAD ST	4'C/L FENCE	1926	WILSON, TINA M
002155015	820		RAILROAD ST	CFW	1926	WILSON, TINA M
002156001	901		HAMILTON ST	SINGLE FAMILY RES.	1948	GONZALEZ, MICHAEL C &CECILIA M
002156001	901		HAMILTON ST	4 C/L FENCE	1948	GONZALEZ, MICHAEL C &CECILIA M
002156001	901		HAMILTON ST	CLC/L PRIVACY SLATS	1948	GONZALEZ, MICHAEL C &CECILIA M GONZALEZ, MICHAEL C &CECILIA M
002156001 002156001	901		HAMILION SI	6 C/L FENCE	1948	CONTALEZ, MICHAEL C &CECILIA M
002156001	901		HAMILION ST	CINCLE ENNILY DEC	1948	GONZALEZ, MICHAEL C &CECILIA M JOHNSTON, WILLIAM H ET AL
002156002	909		HAMILION SI	DMC PENCE	1927	JOHNSTON, WILLIAM H ET AL
002156002	909		HAMILION SI	ALC/I DENCE	1927	JOHNSTON, WILLIAM H ET AL
002156002	909		HAMILTON ST	61C/I PENCE	1927	JOHNSTON, WILLIAM H ET AL
002156002	909		HAMILTON ST	CFW PENCE	1927	JOHNSTON, WILLIAM H ET AL
002156002	909		HAMILTON ST	SHED	1927	JOHNSTON, WILLIAM H ET AL
002156003	913		HAMILTON ST	SINGLE FAMILY RES	1920	BECK, MARTY DUANE ET AL
002156003	913		HAMILTON ST	SINGLE FAMILY RES.	1945	RECK MARTY DUAME ET AL
002156003	913		HAMILTON ST	CFW	1945	BECK, MARTY DUANE ET AL
002156004	917		HAMILTON ST	SINGLE FAMILY RES.	1938	BECK, MARTY DUANE ET AL TROUSDALE, EARL
002156004	917		HAMILTON ST	WMS FENCE	1938	TROUSDALE, EARL
002156004	917		HAMILTON ST	CFW	<mark>1938</mark>	TROUSDALE, EARL
002156005	172		10TH ST	SINGLE FAMILY RES.	1948	LIEBSACK, TASHA L
002156005	172		10TH ST	4'C/L FENCE	<mark>1948</mark>	LIEBSACK, TASHA L
002156005	172		10TH ST	CFW	<mark>1948</mark>	LIEBSACK, TASHA L
002156006	122		10TH ST	COMM'L-STORAGE	1920	CAMP CARLIN LLC
<mark>002156006</mark>	122		10TH ST	PATIO COVER	1920	CAMP CARLIN LLC
002156007	920		RAILROAD ST	SINGLE FAMILY RES.	1920	BUTTARS, MILTON ROGER ET AL
002156008	916		RAILROAD ST	SINGLE FAMILY RES.	<mark>1926</mark>	SANTO, CHARLES
002156008	916		RAILROAD ST	4'C/L FENCE	1926	SANTO, CHARLES
002156008	916		RAILROAD ST	CFW	1926	SANTO, CHARLES CAMP CARLIN LLC
002156009	912		RAILROAD ST	SINGLE FAMILY RES.	1926	CAMP CARLIN LLC
002156009	912		RAILROAD ST	CFW	1926	CAMP CARLIN LLC
002156010	908		RAILROAD ST	SINGLE FAMILY RES.	1920	BROWN, MORRIS WAYNE

APN	Loc #	Loc Dir	Location or Street	WMS FENCE CFW 6'C/L FENCE SINGLE FAMILY RES. 6'S/B FENCE 3'C/L FENCE 3'C/L FENCE CFW SINGLE FAMILY RES. 4'S/B FENCE 6'S/B FENCE CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. ASPHALT 4'C/L FENCE SHED CFW SINGLE FAMILY RES. 4'C/L FENCE PRIVACY SLATS CFW SINGLE FAMILY RES. CFW 4'C/L FENCE CINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE C/L TOPRAIL 6'S/B FENCE C/FW 6'S/B FENCE CFW 6'S/B FENCE A'C/L FENCE RETAINING WALL SHED AWNING	YR BUILT	Assessed Owner
002156010	908		RAILROAD ST	WMS FENCE	1920	BROWN, MORRIS WAYNE
002156010	908		RAILROAD ST	CFW	1920	BROWN, MORRIS WAYNE
002156010	908		RAILROAD ST	6'C/L FENCE	1920	BROWN, MORRIS WAYNE
002156011	101		9TH ST	SINGLE FAMILY RES.	<mark>1926</mark>	DTK PROPERTIES LLC
002156011	101		9TH ST	6'S/B FENCE	<mark>1926</mark>	DTK PROPERTIES LLC
002156011	101		9TH ST	3'C/L FENCE	<mark>1926</mark>	DTK PROPERTIES LLC
002156011	101		9TH ST	CFW	<mark>1926</mark>	DTK PROPERTIES LLC
002156013	121		9TH ST	SINGLE FAMILY RES.	<mark>1914</mark>	LACY, J RAYMOND
002156013	121		9TH ST	4'S/B FENCE	1914	LACY, J RAYMOND
002156013	121		9TH ST	6'S/B FENCE	1914	LACY, J RAYMOND
002156013	121		9TH ST	CFW	1914	LACY, J RAYMOND
002156014	131		9TH ST	SINGLE FAMILY RES.	1914	SUMPTER, SCOTT L
002156014	131		OTH ST	6'S/B FENCE	1914	SUMPTER, SCOTT L
002156014 002161002	131		GEDAD CO	CINCLE FAMILY DEC	1914	SUMPTER, SCOTT L MARTIN, KAREN W
002161002	1011		CEDAR ST	SINGLE FAMILY RES.	1934	
002161002	1011		CEDAR SI	CINCIE EXMILY BEC	1914	MARTIN, KAREN W OVERMAN, BERTHA ANN
002161003	1017		CEDAR SI	ACDUALT	1914	OVERNAM DEPTHA ANN
002161003	1017		CEDAR ST	A'C/L PENCE	1914	OVERMAN, BERTHA ANN OVERMAN, BERTHA ANN
002161003	1017		CEDAR ST	SHED	1914	OVERMAN, BERTHA ANN
002161003	1017		CEDAR ST	CFW	1914	OVERMAN, BERTHA ANN
002161005	1024		HAMILTON ST	SINGLE FAMILY RES.	1941	GATES, DAVID M ET AL
002161005	1024		HAMILTON ST	4'C/L FENCE	1941	GATES, DAVID M ET AL
002161005	1024		HAMILTON ST	PRIVACY SLATS	1941	GATES, DAVID M ET AL
002161005	1024		HAMILTON ST	CFW	<mark>1941</mark>	GATES, DAVID M ET AL
002161006	1018		HAMILTON ST	SINGLE FAMILY RES.	<mark>1926</mark>	GATES, DAVID MORGAN
002161006	1018		HAMILTON ST	SINGLE FAMILY RES.	1938	GATES, DAVID MORGAN
002161006	1018		HAMILTON ST	CFW	1926	GATES, DAVID MORGAN
002161006	1018		HAMILTON ST	4'C/L FENCE	<mark>1926</mark>	GATES, DAVID MORGAN
002161006	1018		HAMILTON ST	RETAINING WALL	1926	GATES, DAVID MORGAN
002161006	1018		HAMILTON ST	6'S/B FENCE	1938	GATES, DAVID MORGAN
002161008	1002		HAMILTON ST	SINGLE FAMILY RES.	1945	GLENNON, JODY WOODS ET AL
002161008 002161008	1002		HAMILION ST	CLC/D PENGE	1945	GLENNON, JODY WOODS ET AL
002161008	1002		HAMILION SI	DETAINING WALL	1945	GLENNON, JODY WOODS ET AL GLENNON, JODY WOODS ET AL
002161008	1002		DAMILLION SI	CINCIP PAMILY DEC	1946	FEASEL, TERI L
002161009	1016		HAMILTON ST	CFW	1946	FEASEL, TERI L
002161009	1016		HAMILTON ST	4'C/L PENCE	1946	FEASEL, TERI L
002161009	1016		HAMILTON ST	C/L TOPRAIL	1946	FEASEL, TERI L
002161009	1016		HAMILTON ST	6'S/B FENCE	1946	FEASEL, TERI L
002161010	1014		HAMILTON ST	SINGLE FAMILY RES.	1932	CHAVEZ, RAFAEL
002161010	1014		HAMILTON ST	SHED	<mark>1932</mark>	CHAVEZ, RAFAEL
002161010	1014		HAMILTON ST	CFW	1932	CHAVEZ, RAFAEL
002162001	251		11TH ST	SINGLE FAMILY RES.	1967	DOXEY, LOREN THOMAS & CATERINA
002162001	251		11TH ST	CFW	1967	DOXEY, LOREN THOMAS & CATERINA
002162001	251		11TH ST	6'S/B FENCE	1967	DOXEY, LOREN THOMAS & CATERINA DOXEY, LOREN THOMAS & CATERINA
002162001	251		11TH ST	4'C/L FENCE	1967	DOXEY, LOREN THOMAS & CATERINA
002162001	251		11TH ST	RETAINING WALL	1967	DOXEY, LOREN THOMAS & CATERINA
002162001	251		11TH ST	SHED	1967	DOXEY, LOREN THOMAS & CATERINA
002162001	251		IITH ST	AWNING	1967	DOXEY, LOREN THOMAS & CATERINA

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1	APN	Loc #	Loc Dir	Location or Street	HOOKUP MULTI-FAMILY RES. CFW ASPHALT SHED SHED SINGLE FAMILY RES. 6'C/L FENCE SINGLE FAMILY RES. CFW 6'C/L FENCE SINGLE FAMILY RES. CFW 6'C/L FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW PAVERS SINGLE FAMILY RES. CFW 4'C/L FENCE 4'S/B FENCE SINGLE FAMILY RES. CFW 4'C/L FENCE 4'S/B FENCE SINGLE FAMILY RES. CFW 4'C/L FENCE 4'C/L FENCE SINGLE FAMILY RES. CFW WMW FENCE AWNING SINGLE FAMILY RES. CFW 4'C/L FENCE SINGLE FAMILY RES.	YR BUILT	Assessed Owner
(002162003	1117		CEDAR ST	HOOKUP	1966	KEARNEY, RAYMOND L & CAROLYN E
	002162010	1102		HAMILTON ST	MULTI-FAMILY RES.	1932	HUFFMAN, KEVIN KORY ET AL
	002162010	1102		HAMILTON ST	CFW	1932	HUFFMAN, KEVIN KORY ET AL
	002162010	1102		HAMILTON ST	ASPHALT	1932	HUFFMAN, KEVIN KORY ET AL
	002162010	1102		HAMILTON ST	SHED	<mark>1932</mark>	HUFFMAN, KEVIN KORY ET AL
	002162010	1102		HAMILTON ST	SHED	1932	HUFFMAN, KEVIN KORY ET AL
	002164001	151		10TH ST	SINGLE FAMILY RES.	1946	TOGNINI, TODD L
	002164001	151		10TH ST	6'C/L FENCE	<mark>1946</mark>	TOGNINI, TODD L
(002164002	171		10TH ST	SINGLE FAMILY RES.	1945	JONES, MICHAEL R
(002164002	171		10TH ST	CFW	1945	JONES, MICHAEL R
(002164002	171		10TH ST	6'C/L FENCE	1945	JONES, MICHAEL R
	002164002	171		10TH ST	4'C/L FENCE	<mark>1945</mark>	JONES, MICHAEL R
(002164003	1009		HAMILTON ST	SINGLE FAMILY RES.	<mark>1942</mark>	PATERSON, SCOTT C & HOLLY M
	002164003	1009		HAMILTON ST	CFW	<mark>1942</mark>	PATERSON, SCOTT C & HOLLY M
	002164003	1009		HAMILTON ST	6'S/B FENCE	<mark>1942</mark>	PATERSON, SCOTT C & HOLLY M PATERSON, SCOTT C & HOLLY M PATERSON, SCOTT C & HOLLY M
(002164003	1009		HAMILTON ST	SHED	<mark>1920</mark>	PATERSON, SCOTT C & HOLLY M
	002164004	1015		HAMILTON ST	SINGLE FAMILY RES.	<mark>1920</mark>	VINING, SCOTT & MONICA VINING, SCOTT & MONICA
	002164004	1015		HAMILTON ST	CFW	1920	VINING, SCOTT & MONICA
	002164007	1022		RAILROAD ST	SINGLE FAMILY RES.	1931	JRT INVESTMENTS LLC
	002164007	1022		RAILROAD ST	SINGLE FAMILY RES.	1908	JRT INVESTMENTS LLC
	002164007	1022		RAILROAD ST	SINGLE FAMILY RES.	1908	JRT INVESTMENTS LLC
	002164007	1022		RAILROAD ST	6'S/B FENCE	1931	JRT INVESTMENTS LLC
	002164007	1022		RAILROAD ST	CFW	1931	JRT INVESTMENTS LLC
	002164007	1022		RAILROAD ST	PAVERS	1931	JRT INVESTMENTS LLC
	002164008	1016		RAILROAD ST	SINGLE FAMILY RES.	1932	HANSEN, GARY D
	002164008	1016		RAILROAD ST	CFW	1932	HANSEN, GARY D
	002164008	1016		RAILROAD ST	4'C/L FENCE	1932	HANSEN, GARY D
	002164008	1016		RAILROAD ST	4'S/B FENCE	1932	HANSEN, GARY D ULLMAN, LINDA D
	002164009	1014		RAILROAD ST	SINGLE FAMILY RES.	1920	ULLMAN, LINDA D
	002164009 002164009	1014 1014		RAILROAD ST	4 S/B FENCE	1920	ULLMAN, LINDA D
	002164009	1014		PATIBOAD CT	CEM LENCE	1920	ULLMAN, LINDA D
	002164010	1010		PATIFICAD ST	CINCIE EXMITY DEC	1920	MONGER, ROBERT & SUSAN
	002164010	1010		DATIDOAD CT	CPW CPW	1930	MONGER, ROBERT & SUSAN
	002164010	1010		DATIDOAD ST	AIC/I PENCE	1938	MONGER, ROBERT & SUSAN
	002164010	1010		PATIPOAD ST	4'S/R FENCE	1938	MONGER ROBERT & SUSAN
	002164011	1006		RATIROAD ST	SINGLE FAMILY RES	1932	MONGER, ROBERT & SUSAN ROWE, JOHN F TR
	002164011	1006		RAILROAD ST	CFW CFW	1932	ROWE, JOHN F TR
	002164011	1006		RAILROAD ST	4'C/L FENCE	1932	ROWE, JOHN F TR
	002164012	1002		RAILROAD ST	SINGLE FAMILY RES.	1940	JOHNSON, HENRY C
	002164012	1002		RAILROAD ST	CFW	1940	JOHNSON, HENRY C
	002164012	1002		RAILROAD ST	WMW FENCE	1940	JOHNSON, HENRY C
	02164012	1002		RAILROAD ST	AWNING	1940	JOHNSON, HENRY C
	02164013	131		10TH ST	SINGLE FAMILY RES.	1931	JOHNSON, HENRY C
(02164013	131		10TH ST	CFW	1931	JOHNSON, HENRY C
	002164013	131		10TH ST	4'C/L FENCE	1931	JOHNSON, HENRY C
	02164014	1017		HAMILTON ST	SINGLE FAMILY RES.	1914	DTK PROPERTIES LLC
(002164014	1017		HAMILTON ST	SINGLE FAMILY RES.	1920	DTK PROPERTIES LLC
	002164014	1017		HAMILTON ST	4'C/L FENCE	1920	DTK PROPERTIES LLC
	02164014	1017		HAMILTON ST	5'C/L FENCE	1914	DTK PROPERTIES LLC
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APN	Loc #		Location or Street		YR BUILT	Assessed Owner
002164014	1017		HAMILTON ST TUSCARORA RD TUSCARORA RD TUSCARORA RD TUSCARORA RD 4TH ST 4TH ST 4TH ST 4TH ST	CFW RESIDENCE (LOW-COST BUNKHOUS STORAGE FIXTURES HOOKUP BARN CORRALS WMW FENCE BARBED WIRE FENCE SINGLE FAMILY RES. CFW SHED 4'S/B FENCE SINGLE FAMILY RES. CFW 4'C/L FENCE SINGLE FAMILY RES. CFW PICKET FENCE SINGLE FAMILY RES. CFW ASPHALT 4'C/L FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW S'S/B FENCE SINGLE FAMILY RES. CFW 4'C/L FENCE SINGLE FAMILY RES. CFW 3'C-BLOCK WALL MH HOOKUP	1914	DTK PROPERTIES LLC
002164015	822		TUSCARORA RD	RESIDENCE (LOW-COST BUNKHOUS	1914	DTK PROPERTIES LLC
002164015	822		TUSCARORA RD	STORAGE	1914	DTK PROPERTIES LLC
002164015	822		TUSCARORA RD	FIXTURES	1914	DTK PROPERTIES LLC
002164015	822		TUSCARORA RD	HOOKUP	1914	DTK PROPERTIES LLC
002170001			4TH ST	BARN	1966	WRIGHT, GARY L & RACHEL
002170001			4TH ST	CORRALS	1966	WRIGHT, GARY L & RACHEL
002170001			4TH ST	WMW FENCE	1966	WRIGHT, GARY L & RACHEL
002170001	-		4TH ST	BARBED WIRE FENCE	1966	WRIGHT, GARY L & RACHEL
0021/1001	221		MAIN ST	SINGLE FAMILY RES.	1930	SANDSTEDT, ROBERT M
002171001	221		MAIN ST	CFW	1950	SANDSTEDT, ROBERT M
002171001	221		MAIN ST	SHED	1950	SANDSTEDT, ROBERT M
002171001	221		MAIN ST	4 S/B FENCE	1950	SANDSTEDT, ROBERT M
002171002	231		MAIN ST	SINGLE FAMILY RES.	1926	HOLD, HARVEY HOLD, HARVEY
002171002	231		MAIN ST	CTW PANTLY DEC	1950	FERRIN, LAVINIA KIM TR ET AL
002171003 002171003	245 245		MAIN SI	CINCLE PAMILY DEC	1902	FERRIN, LAVINIA KIM TR ET AL
002171003	245		MAIN SI	CINCLE PAMILY DEC	1906	FERRIN, LAVINIA KIM TR ET AL
002171003	245		MAIN SI	COM	1950	FERRIN, LAVINIA KIM TR ET AL
002171003	245		MATH CT	AIC/I PENCE	1950	FERRIN, LAVINIA KIM TR ET AL
002171003	245		MATH CT	6'C/I FENCE	1950	FERRIN, LAVINIA KIM TR ET AL
002171005	271		MAIN ST	STUCIE FAMILY DES	1935	JOHNSON, MARY F TR
002171005	271		MAIN ST	CFW CFW	1950	JOHNSON, MARY F TR
002171005	271		MAIN ST	PICKET FENCE	1950	JOHNSON, MARY F TR
002171006	301		MAIN ST	SINGLE FAMILY RES	1920	FERRIN, LAVINIA KIM TR ET AL
002171006	301		MAIN ST	CFW CFW	1920	FERRIN, LAVINIA KIM TR ET AL
002171006	301		MAIN ST	ASPHALT	1920	FERRIN, LAVINIA KIM TR ET AL
002171006	301		MAIN ST	4'C/L FENCE	1920	FERRIN, LAVINIA KIM TR ET AL
002171007	305		MAIN ST	SINGLE FAMILY RES.	1940	MANGUM, BRADY & LARA
002171007	305		MAIN ST	CFW	1940	MANGUM, BRADY & LARA
002171007	305		MAIN ST	4'C/L FENCE	1940	MANGUM, BRADY & LARA
002171008	309		MAIN ST	SINGLE FAMILY RES.	1926	COLTON, DANIEL R & CONNIE L TR
002171008	309		MAIN ST	CFW	1926	COLTON, DANIEL R & CONNIE L TR
002171008	309		MAIN ST	5'S/B FENCE	1926	COLTON, DANIEL R & CONNIE L TR
002171009	311		MAIN ST	SINGLE FAMILY RES.	<mark>1956</mark>	WALLACE, DONALD S
002171009	311		MAIN ST	CFW	<mark>1930</mark>	WALLACE, DONALD S
002171010	317		MAIN ST	SINGLE FAMILY RES.	1940	BURNEY, THOMAS J & KATHLEEN L
002171010	317		MAIN ST	CFW	1950	BURNEY, THOMAS J & KATHLEEN L
002171010	317		MAIN ST	4'C/L FENCE	1950	BURNEY, THOMAS J & KATHLEEN L
002171011	321		MAIN ST	SINGLE FAMILY RES.	1915	CAMP CARLIN LLC
002171011	321		MAIN ST	CFW	1950	CAMP CARLIN LLC
002171011	321		MAIN ST	4'C/L FENCE	1950	CAMP CARLIN LLC
002171011	321		MAIN ST	SHED	1950	CAMP CARLIN LLC
002181005	419		MAIN ST	CFW CFW	1950	RIDDLE, JOHN G & JANET L
002181005	419		MAIN ST	6'S/B FENCE	1950	RIDDLE, JOHN G & JANET L
002181005	419	_	MAIN ST	4 S/B FENCE	1950	RIDDLE, JOHN G & JANET L
002181007	152 152	S	5TH ST	SINGLE FAMILY RES.	1926	DANN, RUSSELL J & ELIZABETH J
002181007	152	S	5TH ST	CFW	1950	DANN, RUSSELL J & ELIZABETH J
002181007	152	S	STH ST	3.C-BLOCK WALL	1950	DANN, RUSSELL J & ELIZABETH J
002181007	152	S	5TH ST	MH HOOKUP	1950	DANN, RUSSELL J & ELIZABETH J

APN	Loc #	Loc Dir	Location or Street	SINGLE FAMILY RES. CFW 6'S/B FENCE 4'C/L FENCE SINGLE FAMILY RES. CFW 4'C/L FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW 5'C/L FENCE 2-RAIL FENCE 4'C/L FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. 4'C/L FENCE SINGLE FAMILY RES. 4'C/L FENCE SINGLE FAMILY RES. CFW SINGLE FAMILY RES. CFW PICKET FENCE SHED SINGLE FAMILY RES. CFW SINGLE FAMILY RES.	YR BUILT	Assessed Owner
002181008	414		CAMP ST	SINGLE FAMILY RES.	1902	DOYLE, MIKE
002181008	414		CAMP ST	CFW	<mark>1950</mark>	DOYLE, MIKE
002181008	414		CAMP ST	6'S/B FENCE	<mark>1950</mark>	DOYLE, MIKE
002181008	414		CAMP ST	4'C/L FENCE	(1950)	DOYLE, MIKE
002181009	410		CAMP ST	SINGLE FAMILY RES.	<mark>1955</mark>	KINNEY, CAMERON
002181009	<mark>410</mark>		CAMP ST	CFW	1956	KINNEY, CAMERON
002181009	410		CAMP ST	4'C/L FENCE	1956	KINNEY, CAMERON
002181011	407		MAIN ST	SINGLE FAMILY RES.	1902	DRESEN, JERRY & LORETTA
002181011	407		MAIN ST	CFW	1902	DRESEN, JERRY & LORETTA
002181013	401		MAIN ST	SINGLE FAMILY RES.	1908	GRIFFIN, GREGORY LOGAN GRIFFIN, GREGORY LOGAN
002181013	401		MAIN ST	CPW PRINCE	1950	CRIFFIN, GREGORY LOGAN
002181013 002181013	401 401		MAIN SI	O-DATI PENCE	1950	GRIFFIN, GREGORY LOGAN GRIFFIN, GREGORY LOGAN
002181013	401		MATH CT	AIC/I PENCE	1950	GRIFFIN, GREGORY LOGAN
002181013	501 501 501 505		MAIN SI MAIN ST	CINCLE FAMILY DEC	1920	CORDOVA, PHILLIP EUGENE
002182001	501		MATH ST	4'C/L FENCE	1950	CORDOVA PHILLIP EUGENE
002182001	501		MAIN ST	CEM	1950	CORDOVA, PHILLIP EUGENE
002182002	505		MAIN ST	SINGLE FAMILY RES.	1925	CORDOVA, PHILLIP EUGENE KULISEK, MICHAEL LOUIS JR KULISEK, MICHAEL LOUIS JR
002182002	505		MAIN ST	4'C/L FENCE	1950	KULISEK, MICHAEL LOUIS JR
002182003	509		MAIN ST	SINGLE FAMILY RES.	1914	BROWN, DAVID F BROWN, DAVID F
	509 509		MAIN ST	SINGLE FAMILY RES.	1942	BROWN, DAVID F
002182003	509		MAIN ST	4'C/L FENCE	1950	BROWN, DAVID F
002182003	509		MAIN ST	5'S/B FENCE	(1950)	BROWN, DAVID F
002182003	509		MAIN ST	CFW	(<mark>1950</mark>)	BROWN, DAVID F
002182004	517		MAIN ST	SINGLE FAMILY RES.	(1914)	MONTES DE OCA, ALFRED
002182004	509 509 509 517 517 517 517 521		MAIN ST	SHED (CABIN)	<mark>1914</mark>	MONTES DE OCA, ALFRED
002182004	517		MAIN ST	CFW	1950	MONTES DE OCA, ALFRED
002182004	517		MAIN ST	4'C/L FENCE	1950	MONTES DE OCA, ALFRED MONTES DE OCA, ALFRED BROCK, BRENDA D
002182004	517		MAIN ST	5'S/B FENCE	1950	MONTES DE OCA, ALFRED BROCK, BRENDA D BROCK, BRENDA D KIRKHAM, RONALD DAVID& BEVERLY KIRKHAM, RONALD DAVID& BEVERLY
002182005	521		MAIN ST	SINGLE FAMILY RES.	1938	BROCK, BRENDA D
002182005 002182005	521		MAIN SI	CLA	1938	BROCK, BRENDA D
002182007	521 131 131 131	<u>_</u>	MAIN SI	CINCID DAMILY DEC	1936	VIDVUAM DONALD DAVIDS DEVEDLY
002182007	131	20	CTU CT	CEW CEW	1950	KIRKHAM, RONALD DAVID& BEVERLY KIRKHAM, RONALD DAVID& BEVERLY KIRKHAM, RONALD DAVID& BEVERLY
002182007	131	20	STH ST	DICKET FENCE	1950	KIRKHAM PONALD DAVIDE BEVERLY
002182008	520	<u>.</u>	CAMP ST	SINGLE FAMILY RES	1932	ROMANS DANTEL F & BECKY
002182008	520		CAMP ST	CFW CFW	1950	ROMANS, DANIEL F & BECKY ROMANS, DANIEL F & BECKY
002182008	520		CAMP ST	PICKET FENCE	1950	ROMANS, DANIEL F & BECKY
002182008	520		CAMP ST	SHED	1950	ROMANS, DANIEL F & BECKY ROMANS, DANIEL F & BECKY
002182009	516		CAMP ST	SINGLE FAMILY RES.	1949	JOHN, CRISTINA V
002182009	516		CAMP ST	CFW	<mark>1954</mark>	JOHN, CRISTINA V
002182009	516		CAMP ST	4'PICKET FENCE	<mark>1954</mark>	JOHN, CRISTINA V
002182009	<mark>516</mark>		CAMP ST	SHED 1	1954	JOHN, CRISTINA V
002182009	<mark>516</mark>		CAMP ST	SHED 2	1954	JOHN, CRISTINA V
002182009	516		CAMP ST	SHED 3	1954	JOHN, CRISTINA V
002182009	516	_	CAMP ST	SHED 4	1954	JOHN, CRISTINA V
002182010	151	S	5TH ST	DETACHED GARAGE	1946	SIMPSON, KARLA JUNE CONNER, PATRICK SR & WENDY M CONNER, PATRICK SR & WENDY M
002182011	506		CAMP ST	SINGLE FAMILY RES.	1930	CONNER, PATRICK SR & WENDY M
002182011	506		CAMP ST	WMS FENCE	1950	CONNER, PATRICK SR & WENDY M
002183001	601		MAIN ST	STORAGE WAREHOUSE	1920	RUTHERFORD, J BRETT ET AL

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	APN	Loc #	Loc Dir	Location or Street	RES. HOTEL/APTS. SINGLE FAMILY RES. 3'C/L FENCE C/L PRIVACY SLATS 6'C/L FENCE C/L PRIVACY SLATS 6'C/L FENCE C/L PRIVACY SLATS CFW SINGLE FAMILY RES. CFW 4'C/L FENCE SINGLE FAMILY RES. CFW WIRE MESH FENCE SHED COMM'L-FRATERNAL BLDG. SINGLE FAMILY RES CFW 6'C/L FENCE SALVAGE VALUE FOR BLDG. BARN 3-RAIL FENCE SINGLE FAMILY RES. WIRE FENCE SINGLE FAMILY RES. CFW DORMITORY COVERED PORCH BALCONY (BOTH SIDES) FLIGHTS OF STAIRS SINGLE FAMILY RES. STORAGE BLDG. CFW SINGLE FAMILY RES. SSINGLE FAMILY RES. STORAGE BLDG. CFW SINGLE FAMILY RES. SB FENCE CFW MOBILE HOME HOOKUP AWNING WMS FENCE SHED SINGLE FAMILY RES. CFW 5'S/B FENCE ALUMINUM AWNING SINGLE FAMILY RES. CFW SHED 4'C/L FENCE 4'S/B FENCE	YR BUILT	Assessed Owner
	002183003	609		MAIN ST	RES. HOTEL/APTS.	1926	ATKINS, SONNY B & TERI L
	002183005	172	S	7TH ST	SINGLE FAMILY RES.	1918	MOEN, JAMES A TR
	002183005	172	S	7TH ST	3'C/L FENCE	1950	MOEN, JAMES A TR
	002183005	172	SS	7TH ST	C/L PRIVACY SLATS	1950	MOEN, JAMES A TR
	002183005	172	S	7TH ST	6'C/L FENCE	1950	MOEN, JAMES A TR
	002183005	172	S	7TH ST	C/L PRIVACY SLATS	1950	MOEN, JAMES A TR
	002183005	172	S	7TH ST	CFW	1950	MOEN, JAMES A TR
	002183007	614		CAMP ST	SINGLE FAMILY RES.	1914	CARDENAS, JENNY ELIZABETH
	002183007	614		CAMP ST	CFW	1950	CARDENAS, JENNY ELIZABETH
	002183007	614		CAMP ST	4'C/L FENCE	1950	CARDENAS, JENNY ELIZABETH
	002183008	610		CAMP ST	SINGLE FAMILY RES.	<mark>1942</mark>	MEALEY, DANTEL P & AMY D
	002183008	610		CAMP ST	CFW	1942	MEALEY, DANIEL P & AMY D
	002183008	<mark>610</mark>		CAMP ST	WIRE MESH FENCE	1942	MEALEY, DANIEL P & AMY D
	002183008	610		CAMP ST	SHED	1942	MEALEY, DANIEL P & AMY D
	002183009	141	S	6TH ST	COMM'L-FRATERNAL BLDG.	<mark>1936</mark>	AMERICAN LEGION
	002183010	132	S	7TH ST	SINGLE FAMILY RES	1938	ABBOT/DAVIS LLC
	002183011	617		MAIN ST	CFW	<mark>1938</mark>	CARLIN, CITY OF
	002183011	<mark>617</mark>		MAIN ST	6'C/L FENCE	<mark>1938</mark>	CARLIN, CITY OF
	002183011	617		MAIN ST	SALVAGE VALUE FOR BLDG.	<mark>1938</mark>	CARLIN, CITY OF
	002184001			5TH ST	BARN	<mark>1943</mark>	SHRODE, ATHENA LYNNE
	002184001			5TH ST	3-RAIL FENCE	<mark>1943</mark>	SHRODE, ATHENA LYNNE
	002184002	212	S S	5TH ST	SINGLE FAMILY RES.	<mark>1908</mark>	SHRODE, ATHENA LYNNE
	002184002	212	S	5TH ST	WIRE FENCE	<mark>1950</mark>	SHRODE, ATHENA LYNNE
	002185004	262	S	6TH ST	SINGLE FAMILY RES.	1941	ABRAM, BRIAN L ET AL
	002185004	262	S	6TH ST	CFW	1950	ABRAM, BRIAN L ET AL
	002185007	519		CAMP ST	DORMITORY	1902	CAMP STREET LLC
	002185007	519		CAMP ST	COVERED PORCH	1902	CAMP STREET LLC
	002185007	519		CAMP ST	BALCONY (BOTH SIDES)	1902	CAMP STREET LLC
	002185007	519		CAMP ST	FLIGHTS OF STAIRS	1902	CAMP STREET LLC
	002185009	513		CAMP ST	SINGLE FAMILY RES.	1922	DOXEY, ELIZABETH C TR
	002185009	513		CAMP ST	STORAGE BLDG.	1922	DOXEY, ELIZABETH C TR
	002185009	513		CAMP ST	CFW	1950	DOXEY, ELIZABETH C TR
	002186001	601		CAMP ST	SINGLE FAMILY RES.	1920	BINGHAM, ELAINA
	002186001	601		CAMP ST	S/B FENCE	1950	BINGHAM, ELAINA
	002186002	603 603		CAMP ST	SINGLE FAMILY RES.	1939	LUDWIG, JOHN C & LESLIE L
	002186002 002186002	603		CAMP ST	SB FENCE	1950	LUDWIG, JOHN C & LESLIE L
	002186002	607		CAMP ST	MODILE HOME HOOKID	1950	LUDWIG, JOHN C & LESLIE L
	002186003	607		CAMP SI	NUBILE HOME HOURUP	1950	LUDWIG, JOHN C & LESLIE L LUDWIG, JOHN C & LESLIE L
	002186003	607		CAMP OT	AMNING	1950	LIDWIG, JOHN C & LESLIE L
	002186003	607		CAMP CT	CHED CHED	1930	LUDWIG, JOHN C & LESLIE L LUDWIG, JOHN C & LESLIE L
	002186003	609		CAMP OT	CINCIE ENMILY DEC	1931	ARNOLD, STEVEN
	002186004	609		CAMD CT	CEM	1950	ARNOLD, SIEVEN
	002186004	609		CAMD CT	EIC/D DENCE	1950	ARNOLD, SIEVEN
	002186004	609		CAMD CT	ALIMINIM AWNING	1950	ARNOLD, STEVEN
	002186005	613		CAMP CT	SINCLE FAMILY DES	1914	CARPLUK, CHRIS & CYNDI
	002186005	613		CAMP CT	CEM	1950	CARPLUK, CHRIS & CINDI
	002186005	613		CAMP CT	CHED	1950	CARPLUK, CHRIS & CINDI
	002186005	613		CAMP ST	4'C/L FENCE	1950	CARPLUK, CHRIS & CYNDI
	002186005	613		CAMD CT	AIC/D PENCE	1950	CARPLUK, CHRIS & CINDI
	002100000	212		CHILE DI	T D/D PENCE	T 200	CHAPTON, CHAPT & CINDI

APN	Loc #	Loc	Location or Street	SINGLE FAMILY RES. CFW SINGLE FAMILY RES. SHED 6'C/L FENCE CFW S/B FENCE SINGLE FAMILY RES. CFW S/B FENCE WIRE FENCE SINGLE FAMILY RES. CFW WMS FENCE SHED SINGLE FAMILY RES. SHED HOOKUP CFW 5'S/B FENCE PORCH PORCH STORAGE STORAGE BUNKHOUSE BUNKHOUSE BUNKHOUSE BUNKHOUSE BUNKHOUSE BUNKHOUSE CFW STORAGE FAMILY RES. WIRE FENCE DET GARAGE HORSE SHED S/B FENCE WIRE FENCE COMM'L-RETAIL STORE COMM'L-RETAIL STORE COMM'L-RESTAURANT POTATO STORAGE COMM'L-RESTAURANT POTATO STORAGE COMM'L-JAIL PORCH SINGLE FAMILY RES.	YR BUILT	Assessed Owner
		Dir				
				*******	4005	DIMMIN DUDDOND D C DINA
002186006	619		CAMP ST	SINGLE FAMILY RES.	1926	BATTLE, BRADFORD E & DIANA S
002186006	619	<u></u>	CAMP ST	CFW CFW	1950	BATTLE, BRADFORD E & DIANA S
002186007	202	S	7TH ST	SINGLE FAMILY RES.	1914	SUPP, VICTORIA
002186007	202	S	7TH ST	SHED SHED	1950	SUPP, VICTORIA SUPP, VICTORIA
002186007	202	S	7TH ST	6.C/L FENCE	1950	SUPP, VICTORIA
002186007	202	S S	7TH ST	C / D FENCE	1950	LUDWIC TOUN C LEGITE
002186008	262	S	ON ST	S/B FENCE	1950	LUDWIG, JOHN & LESLIE
002186009	620		ONK ST	SINGLE FAMILY RES.	1932	ANDERSON, JULIE H ROUNDTREE, LISA
002186010 002186010	616		ONK CT	CINCLE FAMILY DEC	1922	ROUNDTREE, LISA
002186010	616		ONK CT	SINGLE FAMILI RES.	1950	ROUNDTREE, LISA
002186010	616 616		OAK SI	C/B EENCE	1950	ROUNDTREE, LISA
002186010	616		OAK SI	MIDD DENCE	1950	ROUNDTREE, LISA
002186010	614		OAK SI	CINCIP PAMILY DEC	1930	PEARSON, RONALD ET AL
002186011	614		OAK ST	CEM	1950	PEARSON, RONALD ET AL
002186011	614		OAK ST	LIMC DENCE	1950	PEARSON, RONALD ET AL
002186011	614		OWN SI	CHED LENCE	1950	PEARSON, RONALD ET AL
002186012	261	S	CTU CT	CINCLE FAMILY DEC	1924	LUDWIG, JOHN C & LESLIE L
002186012	261	S	CTH CT	CUED PARTIE RES.	1908	LUDWIG, JOHN C & LESLIE L
002186012	261	S	STH ST	HOOKIID	1908	LUDWIG, JOHN C & LESLIE L
002186012	261	S	STH ST	CEM	1950	LUDWIG, JOHN C & LESLIE L
002186012	261	S	STH ST	5'S/B FENCE	1950	LUDWIG, JOHN C & LESLIE L
002186012	261	S	6TH ST	PORCH	1925	LUDWIG, JOHN C & LESLIE L
002186012	261	S	6TH ST	PORCH	1925	LUDWIG, JOHN C & LESLIE L
002186012	261	s	6TH ST	SHED	1925	LUDWIG, JOHN C & LESLIE L
002190003	904		OAK ST	STORAGE	1903	ROUNDTREE, LISA
002190003	904		OAK ST	STORAGE	1903	ROUNDTREE, LISA
002190003	904		OAK ST	BUNKHOUSE	1903	ROUNDTREE, LISA
002190003	904		OAK ST	BUNKHOUSE	1903	ROUNDTREE, LISA
002190003	904		OAK ST	PORCH	1903	ROUNDTREE, LISA
002190003	904		OAK ST	STORAGE FLOORS	1903	ROUNDTREE, LISA
002190004	825		CAMP ST	SINGLE FAMILY RES.	<mark>1920</mark>	HOUSE, KEITH
002190004	825		CAMP ST	CFW	1960	HOUSE, KEITH
002190007	171	S	10TH ST	SINGLE FAMILY RES.	<mark>1966</mark>	DEMING, COLLEEN MARIE
002190007	171	S	10TH ST	WIRE FENCE	1966	DEMING, COLLEEN MARIE
002190007	171	S	10TH ST	DET GARAGE	<mark>1966</mark>	DEMING, COLLEEN MARIE
002190007	171	S	10TH ST	HORSE SHED	<mark>1966</mark>	DEMING, COLLEEN MARIE
002190007	171	S	10TH ST	S/B FENCE	<mark>1966</mark>	DEMING, COLLEEN MARIE
002190007	171	S	10TH ST	WIRE FENCE	<mark>1966</mark>	DEMING, COLLEEN MARIE
002191001	703		MAIN ST	COMM'L-RETAIL STORE	1925	MONTES DE OCA, ALFRED
002191003	<mark>707</mark>		MAIN ST	COMM'L-RETAIL STORE	<mark>1910</mark>	DTK PROPERTIES LLC
002191004	711		MAIN ST	COMM'L-RESTAURANT	<mark>1927</mark>	FONG, JOHN & YOSHIKO
002191006	719		MAIN ST	POTATO STORAGE	1918	SANDSTEDT, ROBERT M & TERRI
002191008	152	S	8TH ST	COMM'L-JAIL	1948	CARLIN, CITY OF CARLIN, CITY OF
002191008	152	S	8TH ST	PORCH	1948	CARLIN, CITY OF
002191009	720		CAMP ST	SINGLE FAMILY RES.	1938	CAMP CARLIN LLC
002191010	716		CAMP ST	SINGLE FAMILY RES.	1920	CONNER, WENDY M
002191010	716		CAMP ST	4'C/L FENCE	1950	CONNER, WENDY M
002191010	716		CAMP ST	6'C/L FENCE	1950	CONNER, WENDY M
002191011	712		CAMP ST	SINGLE FAMILY RES.	1936	SUTHERLAND, SHARON F

APN	Loc #	Loc Dir	Location or Street	DESCRIPTION 5'S/B FENCE SHED CFW SINGLE FAMILY RES. BAR/TAVERN BUNKHOUSE BUNKHOUSE FIXTURES COMM'L-OFFICE BLDG. CFW ASPHALT RETAIL STORE CARPORT COMM'L-SERVICE GARAGE 6'C/L FENCE C/L TOPRAIL C/L PRIVACY SLATS SINGLE FAMILY RES. WMS FENCE DETACHED GARAGE SINGLE FAMILY RES. 3'S/B FENCE CFW 3'C/L FENCE CFW 3'C/L FENCE SINGLE FAMILY RES. SHED COMM'L-CHURCH CFW SINGLE FAMILY RES. SHED COMM'L-CHURCH CFW SINGLE FAMILY RES. 6'S/B FENCE CFW AWNINGS SINGLE FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES. 6'S/B FENCE SINGLE FAMILY RES.	YR BUILT	Assessed Owner
		DII				
002191011	712		CAMP ST	5'S/B FENCE	<mark>1950</mark>	SUTHERLAND, SHARON F
002191011	712		CAMP ST	SHED	1950	SUTHERLAND, SHARON F SUTHERLAND, SHARON F
002191011	712	_	CAMP ST	CFW	1950	SUTHERLAND, SHARON F
002191012	171	S	7TH ST	SINGLE FAMILY RES.	1914	FORNESS, JAMES A SANDSTEDT, ROBERT M & TERRI
002191014	717		MAIN ST	BAR/TAVERN	1910	SANDSTEDT, ROBERT M & TERRI
002191015	713		MAIN ST	BUNKHOUSE	1942	TERRALL, LEWIS D TERRALL, LEWIS D
002191015	713	_	MAIN ST	BUNKHOUSE FIXTURES	1942	TERRALL, LEWIS D
002192001	101	S	8TH ST	COMM'L-OFFICE BLDG.	1964	CARLIN, CITY OF
002192001	101	5	STH ST	CFW	1966	CARLIN, CITY OF
002192001	101	5	MATAL CE	ASPHALT CHORE	1966	CARLIN, CITY OF
002192003	815		MAIN ST	CARRORE	1919	PIERETTI, DOMINEK J TR PIERETTI, DOMINEK J TR
002192003 002192004	815 823		MAIN SI	COMMIT CERVICE CARACE	1930	GATES, DAVID
002192004	823		MAIN SI	CLC/I PENCE	1050	GATES, DAVID
002192004	823		MAIN SI	C/I TOPPATI	1950	GATES, DAVID
002192004	823		MAIN SI	C/L DRIVACY CLATC	1950	GATES, DAVID
002192007	810		CAMP CT	CTNCLE FAMILY DEC	1930	RIAL, FRANK M
002192007	810		CAMP CT	WMC PENCE	1952	RIAL, FRANK M
002192010	818		CAMP ST	DETACHED GARAGE	1930	SUMPTER, SCOTT ET AL
002193001	903		MAIN ST	SINGLE FAMILY DES	1926	SMITH, GRANT R
002193001	903		MAIN ST	3'S/B FENCE	1950	SMITH, GRANT R
002193001	903 903		MAIN ST	CFW	1960	SMITH GRANT R
002193002	913		MAIN ST	SINGLE FAMILY RES.	1920	FERRIN, LAVINIA KIM TR ET AL
002193002	913		MAIN ST	CFW CFW	1950	FERRIN, LAVINIA KIM TR ET AL
002193002	913		MAIN ST	3'C/L FENCE	1950	FERRIN, LAVINIA KIM TR ET AL FERRIN, LAVINIA KIM TR ET AL FERRIN, LAVINIA KIM TR ET AL
002193002	913		MAIN ST	3'S/B FENCE	1960	FERRIN, LAVINIA KIM TR ET AL
002193003	913 917		MAIN ST	SINGLE FAMILY RES.	1932	FERRIN, LAVINIA KIM TR ET AL BELSEY, ROBERT & APRIL C
002193003	917		MAIN ST	SHED	1932	RELSEY, ROBERT & APRIL C
002193004	923		MAIN ST	COMM'L-CHURCH	1922	GORS, ROBERT A & BRYAN L GORS, ROBERT A & BRYAN L WAGNER, MILO J
002193004	923		MAIN ST	CFW	1922	GORS, ROBERT A & BRYAN L
002193006	1002		CAMP ST	SINGLE FAMILY RES.	(1930)	WAGNER, MILO J
002193006	1002		CAMP ST	SINGLE FAMILY RES.	<mark>1918</mark>	WAGNER, MILO J
002193006	1002		CAMP ST	6'S/B FENCE	<mark>1950</mark>	WAGNER, MILO J
002193006	1002		CAMP ST	4'C/L FENCE	(<mark>1950</mark>)	WAGNER, MILO J
002193006	1002		CAMP ST	CFW	1930	WAGNER, MILO J
002193006	1002		CAMP ST	AWNINGS	1930	WAGNER, MILO J
002193007	930		CAMP ST	SINGLE FAMILY RES.	1914	SMITH, ROGER M
002193007	930		CAMP ST	6'S/B FENCE	1950	SMITH, ROGER M
002193008	924		CAMP ST	SINGLE FAMILY RES.	1935	TONG, APRIL D
002193008	924		CAMP ST	6'S/B FENCE	1950	TONG, APRIL D
002193008	924		CAMP ST	CFW	1950	TONG, APRIL D
002193009	914		CAMP ST	SINGLE FAMILY RES.	1914	THOMPSON, JANET R
002193009	914		CAMP ST	SINGLE FAMILY RES.	1920	THOMPSON, JANET R
002193009	914		CAMP ST	SUED FENCE	1950	THOMPSON, JANET R
002193009	914		CAMP ST	CEM	1914	THOMPSON, JANET R. JANET R.
002193009 002193010	914 906		CAMP CT	CINCLE PAMILY DEC	1920	WILMINGTON SAVINGS FUND SOCIETY
002193010	906		CAMP CT	ALC/I PENCE	1920	WILMINGTON SAVINGS FUND SOCIETY
002193010	906		CAMP CT	CUED FENCE	1930	WILMINGTON SAVINGS FUND SOCIETY
002193010	906		CAMP CT	CEM	1950	WILMINGTON SAVINGS FUND SOCIETY
002133010	300		CHITE SI	CP II	1950	WILHITHGION SAVINGS FUND SOCIETI

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APN	Loc #	Loc Dir	Location or Street	S/B FENCE SINGLE FAMILY RES. 6'C/L FENCE SHED CFW CAR COVER SINGLE FAMILY RES. 3'S/B FENCE CFW SINGLE FAMILY RES. 3'S/B FENCE SINGLE FAMILY RES. 3'S/B FENCE CFW SINGLE FAMILY RES. CFW SINGLE FAMILY RES. WMS FENCE CFW HOOKUP RESIDENCE (SHED VALUE) SHED FLOOR SINGLE FAMILY RES. FENCE SHED SINGLE FAMILY RES. 6'C/L FENCE SINGLE FAMILY RES. 6'C/L FENCE SINGLE FAMILY RES. BUNKHOUSE HOOKUP COVERED PORCH CFW SINGLE FAMILY RES. CFW SHED 5'S/B FENCE SINGLE FAMILY RES. CFW SHED 5'S/B FENCE SINGLE FAMILY RES. CFW SHED 5'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW 6'S/B FENCE SINGLE FAMILY RES. CFW COTTAGE	YR BUILT	Assessed Owner
002193010	906		CAMP ST	S/B FENCE	1950	WILMINGTON SAVINGS FUND SOCIETY
002193011	902		CAMP ST	SINGLE FAMILY RES.	1920	CAMP CARLIN LLC
002193011	902		CAMP ST	6'C/L FENCE	1950	CAMP CARLIN LLC
002193011	902		CAMP ST	SHED	1950	CAMP CARLIN LLC
002193011	902		CAMP ST	CFW	1950	CAMP CARLIN LLC
002193011	902		CAMP ST	CAR COVER	1950	CAMP CARLIN LLC
002193012	927		MAIN ST	SINGLE FAMILY RES.	1922	BELSEY, APRIL CHANTELLE ET AL
002193012	927		MAIN ST	3'S/B FENCE	1950	BELSEY, APRIL CHANTELLE ET AL
002193012	927		MAIN ST	CFW	<mark>1950</mark>	BELSEY, APRIL CHANTELLE ET AL
002194001	201 201	S	7TH ST	SINGLE FAMILY RES.	1926	TAYLOR, KENNETH G III ET AL TAYLOR, KENNETH G III ET AL
002194001	201	s	7TH ST	3'S/B FENCE	1926	TAYLOR, KENNETH G III ET AL
002194003			CAMP ST	SINGLE FAMILY RES.	1925	LEDESMA, PEGGY
002194003	709		CAMP ST	CFW	1925	LEDESMA, PEGGY
002194004	713		CAMP ST	SINGLE FAMILY RES.	1938	MACDONALD FAMILY TRUST
002194004	713		CAMP ST	WMS FENCE	<mark>1938</mark>	MACDONALD FAMILY TRUST
002194004	713		CAMP ST	CFW	1938	MACDONALD FAMILY TRUST
002194005			CAMP ST	HOOKUP	1922	MACDONALD FAMILY TRUST
002194005			CAMP ST	RESIDENCE (SHED VALUE)	1922	MACDONALD FAMILY TRUST
002194005			CAMP ST	SHED FLOOR	<mark>1922</mark>	MACDONALD FAMILY TRUST
002194006	717		CAMP ST	SINGLE FAMILY RES.	<mark>1926</mark>	PIERETTI, DOMINEK J
002194006	717		CAMP ST	FENCE	<mark>1928</mark>	PIERETTI, DOMINEK J PIERETTI, DOMINEK J
002194006			CAMP ST	SHED	1928	PIERETTI, DOMINEK J
002194007	<mark>222</mark>	s	8TH ST	SINGLE FAMILY RES.	<mark>1920</mark>	LACY, J RAYMOND
002194007	222	S	8TH ST	SINGLE FAMILY RES.	1920	LACY, J RAYMOND
002194008	272	S	8TH ST	SINGLE FAMILY RES.	1948	LACY, J RAYMOND LACY, J RAYMOND JOHNSTON, MARGARET A
002194008	272	S	8TH ST	4'C/L FENCE	1948	JOHNSTON, MARGARET A
002194008	272	S	8TH ST	6'S/B FENCE	1948	JOHNSTON, MARGARET A
002194009	718		OAK ST	SINGLE FAMILY RES.	1926	JOHNSTON, MARGARET A
002194009 002194010	718 714		ONK ST	GINGLE FAMILY DEC	1950	JOHNSTON, MARGARET A
002194010	714		OAK ST	SINGLE FAMILY RES.	1926	YARDLEY, DANIEL A ET AL YARDLEY, DANIEL A ET AL
002194010	706		OAK SI	BONKHOOSE	1926	WRIGHT, NANCY A TR
002194013	706		OAK ST	COVERED BORCH	1966	WRIGHT, NANCY A TR
002194013	706		OAK ST	CPW FORCH	1966	WRIGHT, NANCY A TR
002195001	803		CAMP ST	SINGLE FAMILY DES	1947	PACINI, ROY
002195001	803		CAMP ST	CFW CFW	1953	PACINI, ROY
002195001	803		CAMP ST	SHED	1953	PACINI, ROY
002195001	803		CAMP ST	SHED	1953	PACINI, ROY
002195001	803		CAMP ST	FENCE	1942	PACINI, ROY
002195002	809		CAMP ST	SINGLE FAMILY RES.	1942	JONES, DELOS & DOROTHY E
002195002	809		CAMP ST	CFW	1942	JONES, DELOS & DOROTHY E
002195002	809		CAMP ST	SHED	1942	JONES, DELOS & DOROTHY E
002195002	809		CAMP ST	5'S/B FENCE	1942	JONES, DELOS & DOROTHY E
002195002	809		CAMP ST	FENCE	1942	JONES, DELOS & DOROTHY E
002195002 002195003	811		CAMP ST	SINGLE FAMILY RES.	1935	JONES, DELOS & DOROTHY E PIERETTI, DOMINEK J TR
002195003	811		CAMP ST	CFW	1935	PIERETTI, DOMINEK J TR
002195003	811		CAMP ST	6'S/B FENCE	1950	PIERETTI, DOMINEK J TR PIERETTI, DOMINEK J TR
002195004	815		CAMP ST	SINGLE FAMILY RES.	1920	GIURLANI, LORRAINE ET AL
002195004	815		CAMP ST	CFW	1930	GIURLANI, LORRAINE ET AL
002195004	815		CAMP ST	COTTAGE	1930	GIURLANI, LORRAINE ET AL

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APN		oc Location or Street	DESCRIPTION	YR BUILT	Assessed Owner
002195005 002195005	821 821	CAMP ST	SINGLE FAMILY RES. SINGLE FAMILY RESIDENCE	1951 1938	MILLER, DAVID L & JOANNA MILLER, DAVID L & JOANNA
002195005	821	CAMP ST	CFW CFW	1938	MILLER, DAVID L & JOANNA
002195005	821	CAMP ST	3'C/L FENCE	1938	MILLER, DAVID L & JOANNA
002195005	821	CAMP ST	6'C/L FENCE	1938	MILLER, DAVID L & JOANNA
002195005	821	CAMP ST	C/L PRIVACY SLATS	1938	MILLER, DAVID L & JOANNA
002195006	810	OAK ST	QUONSET BLDG.	1930	CARLIN, CITY OF
002195006	810	OAK ST	SHED	1930	CARLIN, CITY OF
002195006	810	OAK ST	SHED	1930	CARLIN, CITY OF
002195006	810	OAK ST	SHED FLOORS	1930	CARLIN, CITY OF
002195006	810	OAK ST	GARAGE	1920	CARLIN, CITY OF
002195006	810	OAK ST	CFW	1930	CARLIN, CITY OF
002195007	271 S	8TH ST	STORAGE WAREHOUSE	1942	CARLIN, CITY OF
002195007	271 S	8TH ST	SHED	1942	CARLIN, CITY OF
002210041	501	POPLAR ST	TANK	1950	CARLIN, CITY OF
002230002	101 W	MAIN ST	SINGLE FAMILY RES.	<mark>1927</mark>	JONES, RACHEL
002230002	101 W	MAIN ST	GARAGE/SHOP	<mark>1920</mark>	JONES, RACHEL
002230002	101 W		BARN	<mark>1920</mark>	JONES, RACHEL
002230002	101 W		HORSE SHED	<mark>1920</mark>	JONES, RACHEL
002230002	101 W		SLAUGHTER HOUSE	1920	JONES, RACHEL
002230002	101 W		RR CAR STORAGE	<mark>1920</mark>	JONES, RACHEL
002230002	101 W		GARAGE	<mark>1955</mark>	JONES, RACHEL
002230002	101 W		BUNKHOUSE STORAGE	<mark>1955</mark>	JONES, RACHEL
002230002	101 W		LOAFING SHED	1920	JONES, RACHEL
002230002	101 W		BARN MISC-2 FLOOR	1920	JONES, RACHEL
002230008		4TH & OAK STS	UTILITY BUILDING	1920	CARLIN, CITY OF

FINAL TOTALS COUNT 1,126

* * * END OF REPORT * * *



United States Department of the Interior

FISH AND WILDLIFE SERVICE

Reno Fish And Wildlife Office 1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 Phone: (775) 861-6300 Fax: (775) 861-6301

http://www.fws.gov/nevada/



December 15, 2017

In Reply Refer To:

Consultation Code: 08ENVD00-2018-SLI-0125

Event Code: 08ENVD00-2018-E-00316

Project Name: City of Carlin Sewer and Water Improvements

Subject: List of threatened and endangered species that may occur in your proposed project

location, and/or may be affected by your proposed project

To Whom It May Concern:

The attached species list indicates threatened, endangered, proposed, and candidate species and designated or proposed critical habitat that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (ESA, 16 U.S.C. 1531 et seq.), for projects that are authorized, funded, or carried out by a Federal agency. Candidate species have no protection under the ESA but are included for consideration because they could be listed prior to the completion of your project. Consideration of these species during project planning may assist species conservation efforts and may prevent the need for future listing actions. For additional information regarding species that may be found in the proposed project area, visit http://www.fws.gov/nevada/es/ipac.html.

The purpose of the ESA is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 et seq.), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be

prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Guidelines for preparing a Biological Assessment can be found at: http://www.fws.gov/midwest/endangered/section7/ba_guide.html.

If a Federal action agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this species list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally listed, proposed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally, as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation, for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the attached list.

The Nevada Fish and Wildlife Office (NFWO) no longer provides species of concern lists. Most of these species for which we have concern are also on the Animal and Plant At-Risk Tracking List for Nevada (At-Risk list) maintained by the State of Nevada's Natural Heritage Program (Heritage). Instead of maintaining our own list, we adopted Heritage's At-Risk list and are partnering with them to provide distribution data and information on the conservation needs for at-risk species to agencies or project proponents. The mission of Heritage is to continually evaluate the conservation priorities of native plants, animals, and their habitats, particularly those most vulnerable to extinction or in serious decline. In addition, in order to avoid future conflicts, we ask that you consider these at-risk species early in your project planning and explore management alternatives that provide for their long-term conservation.

For a list of at-risk species by county, visit Heritage's website (http://heritage.nv.gov). For a specific list of at-risk species that may occur in the project area, you can obtain a data request form from the website (http://heritage.nv.gov/get_data) or by contacting the Administrator of Heritage at 901 South Stewart Street, Suite 5002, Carson City, Nevada 89701-5245, (775) 684-2900. Please indicate on the form that your request is being obtained as part of your coordination with the Service under the ESA. During your project analysis, if you obtain new information or data for any Nevada sensitive species, we request that you provide the information to Heritage at the above address.

Furthermore, certain species of fish and wildlife are classified as protected by the State of

Nevada (http://www.leg.state.nv.us/NAC/NAC-503.html). You must first obtain the appropriate license, permit, or written authorization from the Nevada Department of Wildlife (NDOW) to take, or possess any parts of protected fish and wildlife species. Please visit http://www.ndow.org or contact NDOW in northern Nevada (775) 688-1500, in southern Nevada (702) 486-5127, or in eastern Nevada (775) 777-2300.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 et seq.), and projects affecting these species may require development of an eagle conservation plan (
http://www.fws.gov/windenergy/eagle_guidance.html). Additionally, wind energy projects should follow the Service's wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

The Service's Pacific Southwest Region developed the Interim Guidelines for the Development of a Project Specific Avian and Bat Protection Plan for Wind Energy Facilities (Interim Guidelines). This document provides energy facility developers with a tool for assessing the risk of potential impacts to wildlife resources and delineates how best to design and operate a bird-and bat-friendly wind facility. These Interim Guidelines are available upon request from the NFWO. The intent of a Bird and Bat Conservation Strategy is to conserve wildlife resources while supporting project developers through: (1) establishing project development in an adaptive management framework; (2) identifying proper siting and project design strategies; (3) designing and implementing pre-construction surveys; (4) implementing appropriate conservation measures for each development phase; (5) designing and implementing appropriate post-construction monitoring strategies; (6) using post-construction studies to better understand the dynamics of mortality reduction (e.g., changes in blade cut-in speed, assessments of blade "feathering" success, and studies on the effects of visual and acoustic deterrents) including efforts tied into Before-After/Control-Impact analysis; and (7) conducting a thorough risk assessment and validation leading to adjustments in management and mitigation actions.

The template and recommendations set forth in the Interim Guidelines were based upon the Avian Powerline Interaction Committee's Avian Protection Plan template (http://www.aplic.org/) developed for electric utilities and modified accordingly to address the unique concerns of wind energy facilities. These recommendations are also consistent with the Service's wind energy guidelines. We recommend contacting us as early as possible in the planning process to discuss the need and process for developing a site-specific Bird and Bat Conservation Strategy.

The Service has also developed guidance regarding wind power development in relation to prairie grouse leks (sage-grouse are included in this). This document can be found at: http://www.fws.gov/southwest/es/Oklahoma/documents/te_species/wind%20power/prairie%20gr

Migratory Birds are a Service Trust Resource. Based on the Service's conservation responsibilities and management authority for migratory birds under the Migratory Bird Treaty Act of 1918, as amended (MBTA; 16 U.S.C. 703 et seq.), we recommend that any land clearing or other surface disturbance associated with proposed actions within the project area be timed to avoid potential destruction of bird nests or young, or birds that breed in the area. Such

destruction may be in violation of the MBTA. Under the MBTA, nests with eggs or young of migratory birds may not be harmed, nor may migratory birds be killed. Therefore, we recommend land clearing be conducted outside the avian breeding season. If this is not feasible, we recommend a qualified biologist survey the area prior to land clearing. If nests are located, or if other evidence of nesting (i.e., mated pairs, territorial defense, carrying nesting material, transporting food) is observed, a protective buffer (the size depending on the habitat requirements of the species) should be delineated and the entire area avoided to prevent destruction or disturbance to nests until they are no longer active.

Guidance for minimizing impacts to migratory birds for projects involving communications towers (e.g., cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

If wetlands, springs, or streams are are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit. For projects located in northern Nevada (Carson City, Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, and Washoe Counties) contact the Reno Regulatory Office at 300 Booth Street, Room 3060, Reno, Nevada 89509, (775) 784-5304; in southern Nevada (Clark, Lincoln, Nye, and White Pine Counties) contact the St. George Regulatory Office at 321 North Mall Drive, Suite L-101, St. George, Utah 84790-7314, (435) 986-3979; or in California along the eastern Sierra contact the Sacramento Regulatory Office at 650 Capitol Mall, Suite 5-200, Sacramento, California 95814, (916) 557-5250.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

The table below outlines lead FWS field offices by county and land ownership/project type. Please refer to this table when you are ready to coordinate (including requests for section 7 consultation) with the field office corresponding to your project, and send any documentation regarding your project to that corresponding office. Therefore, the lead FWS field office may not be the office listed above in the letterhead.

Lead FWS offices by County and Ownership/Program

County	Ownership/Program	Species	Office Lead*
Alameda	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta	BDFWO
		smelt	

Alameda	All ownerships but tidal/estuarine	All	SFWO
Alpine	Humboldt Toiyabe National Forest	All	RFWO
Alpine	Lake Tahoe Basin Management Unit	All	RFWO
Alpine	Stanislaus National Forest	All	SFWO
Alpine	El Dorado National Forest	All	SFWO
Colusa	Mendocino National Forest	All	AFWO
Colusa	Other	All	By jurisdiction (see map)
Contra Costa	Legal Delta (Excluding ECCHCP)	All	BDFWO
Contra Costa	Antioch Dunes NWR	All	BDFWO
Contra Costa	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Contra Costa	All ownerships but tidal/estuarine	All	SFWO
Del Norte	All	All	AFWO `
El Dorado	El Dorado National Forest	All	SFWO
El Dorado	LakeTahoe Basin Management Unit		RFWO
Glenn	Mendocino National Forest	All	AFWO
Glenn	Other	All	By jurisdiction (see map)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
Lake	Mendocino National Forest	All	AFWO

6

Lake	Other	All	By jurisdiction (see map)
Lassen	Modoc National Forest	All	KFWO
Lassen	Lassen National Forest	All	SFWO
Lassen	Toiyabe National Forest	All	RFWO
Lassen	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Lassen	BLM Alturas Resource Area	Al1	KFWO
Lassen	Lassen Volcanic National Park	All (includes Eagle Lake trout on all ownerships)	SFWO
Lassen	All other ownerships	All	By jurisdiction (see map)
Marin	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Marin	All ownerships but tidal/estuarine	A11	SFWO
Mendocino	Russian River watershed	All	SFWO
Mendocino	All except Russian River watershed	All	AFWO
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO

Mono	Humboldt Toiyabe National Forest	All	RFWO
Napa	All ownerships but tidal/estuarine	All	SFWO
Napa	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Nevada	Humboldt Toiyabe National Forest	All	RFWO
Nevada	All other ownerships	All	By jurisdiction (See map)
Placer	Lake Tahoe Basin Management Unit	All	RFWO
Placer	All other ownerships	All	SFWO
Sacramento	Legal Delta	Delta Smelt	BDFWO
Sacramento	Other	All	By jurisdiction (see map)
San Francisco	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Francisco	All ownerships but tidal/estuarine	All	SFWO
San Mateo	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Mateo	All ownerships but tidal/estuarine	All	SFWO
San Joaquin	Legal Delta excluding San Joaquin HCP	All	BDFWO
San Joaquin	Other	All	SFWO
Santa Clara	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta	BDFWO

		smelt	
Santa Clara	All ownerships but tidal/estuarine	All	SFWO
Shasta	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Shasta	Hat Creek Ranger District	All	SFWO
Shasta	Bureau of Reclamation (Central Valley Project)	All	BDFWO
Shasta	Whiskeytown National Recreation Area	All	YFWO
Shasta	BLM Alturas Resource Area	All	KFWO
Shasta	Caltrans	By jurisdiction	SFWO/AFWO
Shasta	Ahjumawi Lava Springs State Park	Shasta crayfish	SFWO
Shasta	All other ownerships	All	By jurisdiction (see map)
Shasta	Natural Resource Damage Assessment, all lands	All	SFWO/BDFWO
Sierra	Humboldt Toiyabe National Forest	All	RFWO
Sierra	All other ownerships	All	SFWO
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO

Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
Solano	Suisun Marsh	All	BDFWO
Solano	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Solano	All ownerships but tidal/estuarine	All	SFWO
Solano	Other	All	By jurisdiction (see map)
Sonoma	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Sonoma	All ownerships but tidal/estuarine	All	SFWO
Tehama	Mendocino National Forest	· All	AFWO
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO

Trinity	County Government	All	AFWO
Trinity	All other ownerships	All	By jurisdiction (See map)
Yolo	Yolo Bypass	All	BDFWO
Yolo	Other	All	By jurisdiction (see map)
All	FERC-ESA	All	By jurisdiction (see map)
All	FERC-ESA	Shasta crayfish	SFWO
All	FERC-Relicensing (non-ESA)	All	BDFWO

*Office Leads:

AFWO=Arcata Fish and Wildlife Office

BDFWO=Bay Delta Fish and Wildlife Office

KFWO=Klamath Falls Fish and Wildlife Office

RFWO=Reno Fish and Wildlife Office

YFWO=Yreka Fish and Wildlife Office

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Reno Fish And Wildlife Office 1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 (775) 861-6300

Official Species List

Project Summary

Consultation Code: 08ENVD00-2018-SLI-0125

Event Code: 08ENVD00-2018-E-00316

Project Name: City of Carlin Sewer and Water Improvements

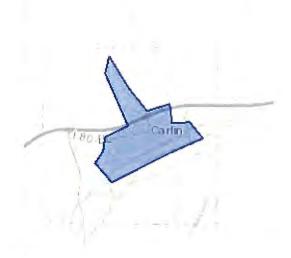
Project Type: WATER SUPPLY / DELIVERY

Project Description: The project includes the replacement of all existing sewer collection and

water distribution pipe within the City of Carlin service area.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/place/40.721077409154276N116.10692112379377W



Counties: Elko, NV

Endangered Species Act Species

There is a total of 1 threatened, endangered, or candidate species on this species list. Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

Fishes

NAME

Lahontan Cutthroat Trout Oncorhynchus clarkii henshawi

Threatened

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/3964

Species survey guidelines:

https://ecos.fws.gov/ipac/guideline/survey/population/233/office/14320.pdf

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act².

Any activity that results in the take of migratory birds or eagles is prohibited unless authorized by the U.S. Fish and Wildlife Service³. There are no provisions for allowing the take of migratory birds that are unintentionally killed or injured. Any person or organization who plans or conducts activities that may result in the take of migratory birds is responsible for complying with the appropriate regulations and implementing appropriate conservation measures, as described below.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the <u>USFWS</u> Birds of Conservation Concern (BCC) list or are known to have particular vulnerabilities in your project location. To learn more about the levels of concern for birds on your list, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your specific project area. To see maps of where birders and the general public have sighted birds in and around your project area, visit E-bird tools such as the E-bird data mapping tool (search for the scientific name of a bird on your list to see specific locations where that bird has been reported to occur within your project area over a certain time-frame) and the E-bird Explore Data Tool (perform a query to see a list of all birds sighted in your county or region and within a certain time-frame). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list can be found below.

NAME	BREEDING SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC), but is of concern in this area either because of the Eagle Act, or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Mar 20 to Sep 15
Black Rosy-finch Leucosticte atrata This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9460	Breeds Jun 15 to Aug 31
Brewer's Sparrow Spizella breweri	Breeds

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	May 15 to
(BCRs) in the continental USA	Aug 10
https://ecos.fws.gov/ecp/species/9291	8
Clark's Grebe Aechmophorus clarkii	Breeds Jan
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	1 to Dec 31
Alaska.	1 10 200 31
Golden Eagle Aquila chrysaetos	Breeds Apr
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	1 to Aug
(BCRs) in the continental USA	31
https://ecos.fws.gov/ecp/species/1680	
Green-tailed Towhee Pipilo chlorurus	Breeds
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	May 1 to
(BCRs) in the continental USA	Aug 10
https://ecos.fws.gov/ecp/species/9444	1148 10
Long-billed Curlew Numenius americanus	Breeds Apr
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	1 to Jul 31
Alaska.	
https://ecos.fws.gov/ecp/species/5511	
Lewis's Woodpecker Melanerpes lewis	Breeds Apr
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	20 to Sep
Alaska,	30
https://ecos.fws.gov/ecp/species/9408	
Lesser Yellowlegs Tringa flavipes	Breeds
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	elsewhere
Alaska.	
https://ecos.fws.gov/ecp/species/9679	
Marbled Godwit <i>Limosa fedoa</i>	Breeds
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	elsewhere
Alaska.	
https://ecos.fws.gov/ecp/species/9481	
Olive-sided Flycatcher Contopus cooperi	Breeds
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	May 20 to
Alaska.	Aug 31
https://ecos.fws.gov/ecp/species/3914	7145 51
Pinyon Jay Gymnorhinus cyanocephalus	Breeds Feb
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	15 to Jul 15
Alaska.	10 10 911 13
https://ecos.fws.gov/ecp/species/9420	
	Breeds Mar
https://ecos.fws.gov/ecp/species/9420 Sagebrush Sparrow Artemisiospiza nevadensis This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	Breeds Mar 15 to Jul 31

Sage Thrasher Oreoscoptes montanus	Breeds Apr
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	15 to Aug
(BCRs) in the continental USA	10
https://ecos.fws.gov/ecp/species/9433	
Willow Flycatcher Empidonax traillii	Breeds
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	May 20 to
(BCRs) in the continental USA	Aug 31
https://ecos.fws.gov/ecp/species/3482	8 - 2
Willet Tringa semipalmata	Breeds Apr
This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and	20 to Aug
Alaska.	5
Williamson's Sapsucker Sphyrapicus thyroideus	Breeds
This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions	May 1 to
(BCRs) in the continental USA	Jul 31
https://ecos.fws.gov/ecp/species/8832	

Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds
 http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds
 http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeas

Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

FRESHWATER EMERGENT WETLAND

■ PEM



Brian Sandoval, Governor Bradley Crowell, Director Greg Lovato, Administrator

March 21, 2018

Dan Sommers Farr West Engineering 5510 Longley Lane Reno. Nevada 89511

Environmental Review: City of Carlin Water and Sewer Improvements Project

In reply, please reference plan review number EL-0005887-18.

Dear Mr. Sommers:

The Nevada Division of Environmental Protection (NDEP), Bureau of Safe Drinking Water (BSDW), has reviewed the information provided in the above referenced project document and offers the following comments:

Based on the information provided by Farr West Engineering regarding this project the BSDW does not anticipate any negative environmental impacts to the existing ground water quality from the construction of the project. Please be aware that all vertical and horizontal separation distances between sewer main/laterals and water main/laterals must be maintained in accordance with the Nevada Administrative Code 445A.6715 to 445A.6718 inclusive, "Design, Construction, Operation and Maintenance of Public Water Systems". If compliance with the required separation distances cannot be achieved or is impracticable, the existing water main/lateral shall be protected as described in these sections of NAC 445A. Please be advised that the water improvements must be approved by the BSDW prior to construction.

Please feel free to contact me at (775) 687-9517 or jbalderson@ndep.nv.gov, if you have any questions or comments.

Sincerely,

James R. Balderson, P.E. Engineering Supervisor,

Bureau of Safe Drinking Water

Nevada Division of Environmental Protection

My-Linh Nguyen, Chief, Bureau of Safe Drinking Water CC:



January 23, 2018

Jim Balderson, Safe Drinking Water Engineering Supervisor Division of Water Resources Nevada Department of Conservation and Natural Resources 901 So. Stewart Street, Suite 4001 Carson City, Nevada 89701

RE: City of Carlin Water and Sewer Improvements Project

Dear Jim,

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727

We are requesting information on the possible effects of the above proposed project in which the Bureau determines if the project will have a negative environmental impact and/or any other potential effects regarding water quality. We would appreciate any of your recommendations to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposed project with State and local government or any private programs and policies regarding the environmental impacts of construction within the proposed project area.

We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Dan Sommers of Farr West Engineering at 775-851-4788.

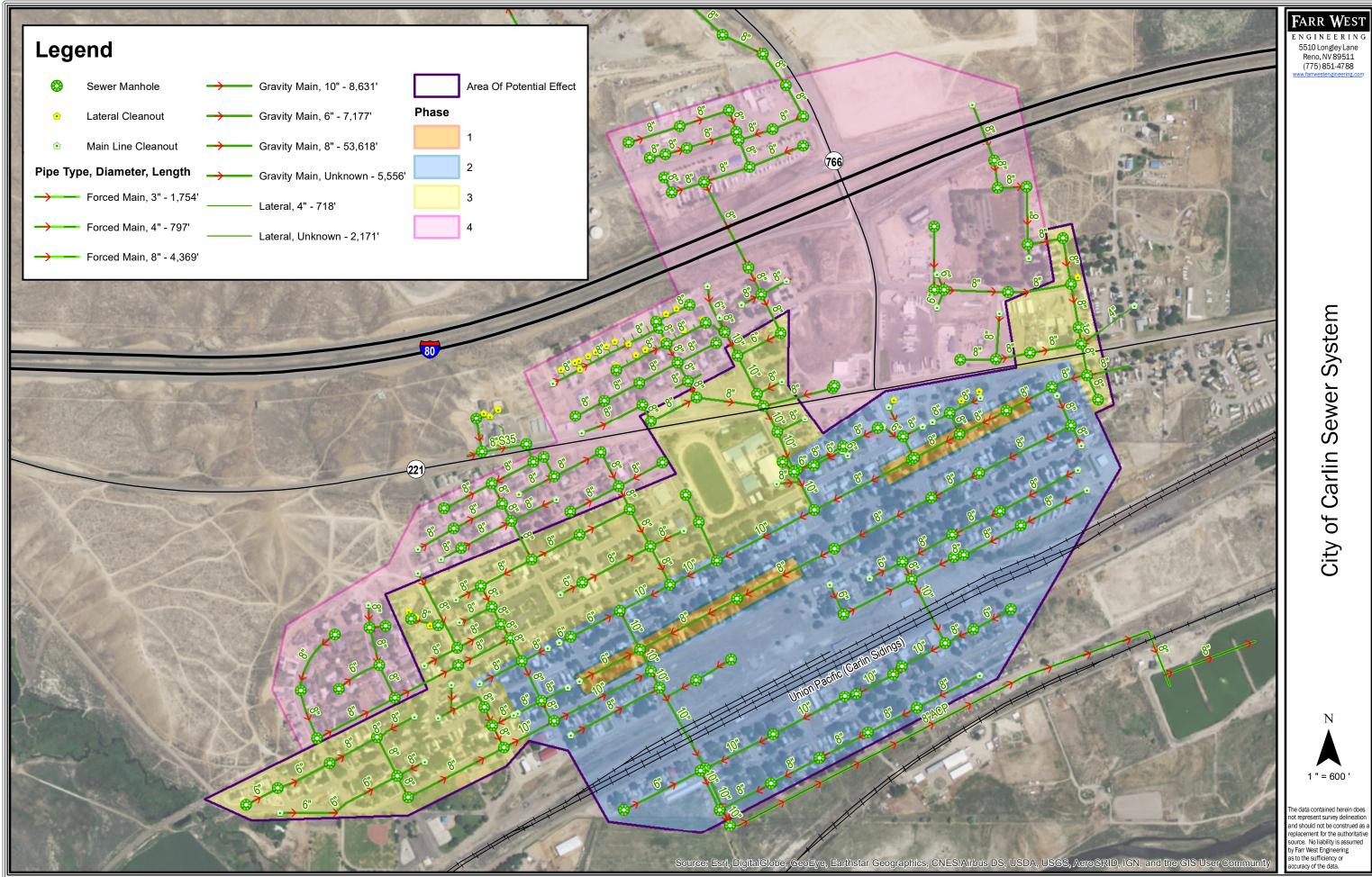
Sincerely,

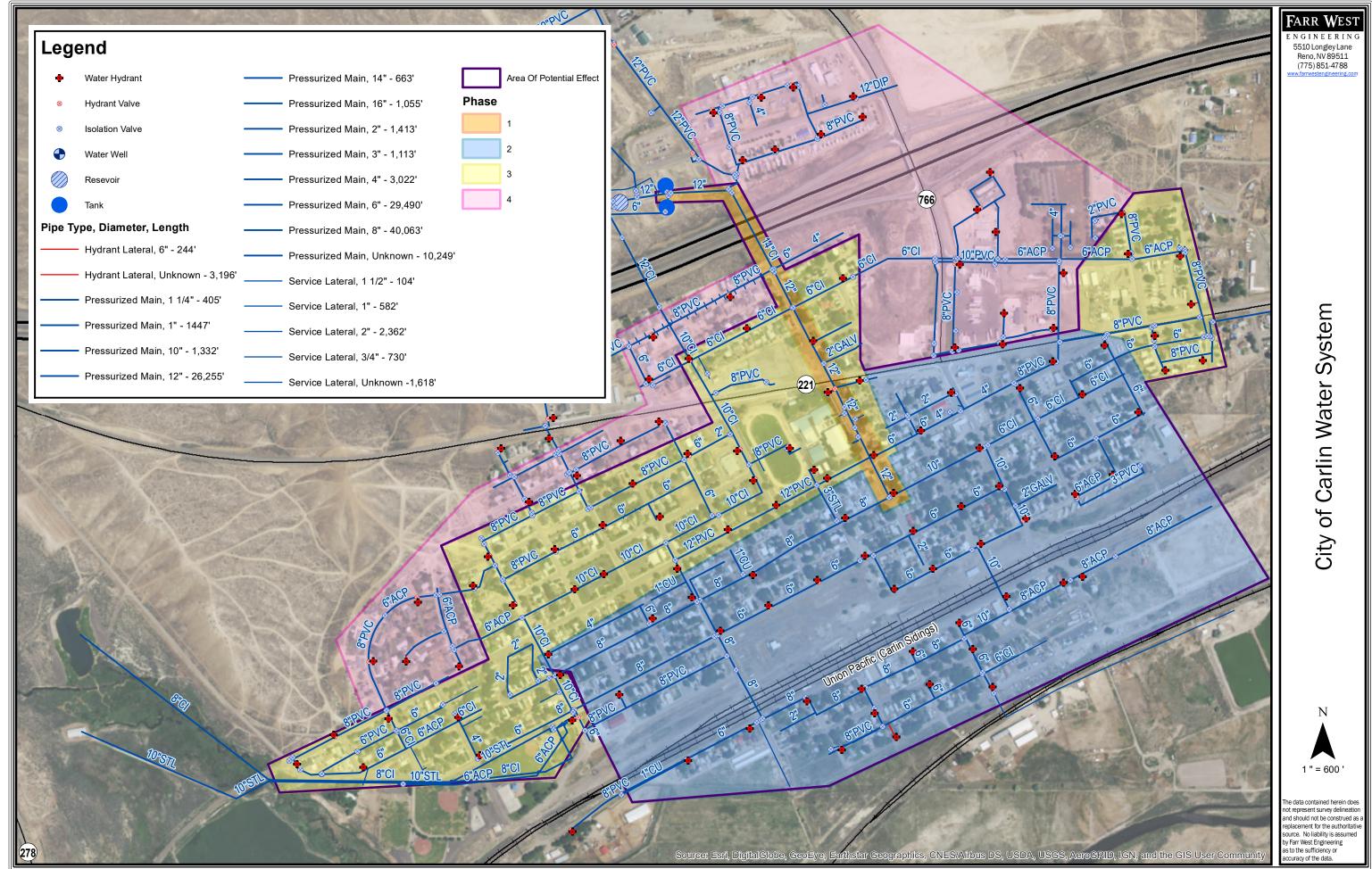
Dan Sommers

Farr West Engineering

Enc.

cc: City of Carlin, USDA





E2018-111 (City of Carlin Sewer and Water System Improvements)

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) requires that a surface area disturbance permit be submitted to clear, excavate, or level 5 acres or more of land per Nevada Administrative Code (NAC) 445B.22037. Exceptions to this regulation include agricultural activities occurring on agricultural land or surface disturbances authorized by permits issued pursuant to NRS 519A.180 which occur on land which is not less than 5 acres or more than 20 acres.

This project does <u>not</u> acknowledge the need for the applicant to obtain a surface area disturbance permit so we want to make sure they are aware of this requirement. The permit application should be submitted to the BAPC. Additional information and the BAPC's Surface Area Disturbances Permit Application can be found at http://ndep.nv.gov/bapc/permitting/permitd.html. For questions, please contact Ryan Clark at (775) 687-9536 or rjclark@ndep.nv.gov.

NAC 445B.22037 Emissions of particulate matter: Fugitive dust. (NRS 445B.210)

- 1. No person may cause or permit the handling, transporting or storing of any material in a manner which allows or may allow controllable particulate matter to become airborne.
- 2. Except as otherwise provided in subsection 4, no person may cause or permit the construction, repair, demolition, or use of unpaved or untreated areas without first putting into effect an ongoing program using the best practical methods to prevent particulate matter from becoming airborne. As used in this subsection, "best practical methods" includes, but is not limited to, paving, chemical stabilization, watering, phased construction and revegetation.
- 3. Except as otherwise provided in subsection 4, no person may disturb or cover 5 acres or more of land or its topsoil until the person has obtained an operating permit for surface area disturbance to clear, excavate, or level the land or to deposit any foreign material to fill or cover the land.
 - 4. The provisions of subsections 2 and 3 do not apply to:
 - (a) Agricultural activities occurring on agricultural land; or
- (b) Surface disturbances authorized by a permit issued pursuant to <u>NRS 519A.180</u> which occur on land which is not less than 5 acres or more than 20 acres.

[Environmental Comm'n, Air Quality Reg. §§ 7.3.1 & 7.3.2, eff. 11-7-75; § 7.3.3, eff. 11-7-75; A 12-15-77] — (NAC A 9-19-90; 12-26-91; 12-13-93; 10-30-95) — (Substituted in revision for NAC 445B.365)



Lisa Kremer, P.E.
Chief, Bureau of Air Pollution Control
Nevada Division of Environmental Protection
901 South Stewart Street, Suite 4001
Carson City, NV 89701
p: 775.687.9336

Ikremer@ndep.nv.gov www.ndep.nv.gov





Brian Sandoval, Governor Bradley Crowell, Director Greg Lovato, Administrator

February 2, 2018

Mr. Dan Sommers Farr West Engineering 5510 Longley Lane Reno, NV 89511

RE: Environmental Review: City of Carlin Water & Sewer Improvements Project, City of

Carlin

Dear Mr. Sommers:

Enclosed you will find the signed environmental review form for the City of Carlin Water & Sewer Improvements Project proposed by the City of Carlin. The Nevada Division of Environmental Protection, Bureau of Air Quality Planning has reviewed this project for conformance with federal air quality standards, and it will conform to Nevada's Applicable State Implementation Plan. Please note the following requirements that must be complied with during the planning and implementation phases of this project:

- 1. It is our understanding that this project is to improve the water and sewer system in Carlin, Nevada. Pursuant to NAC 445B.22037, if during the course of a project an area in excess of five (5) acres is disturbed, a surface area disturbance permit is required from the Bureau of Air Pollution Control (BAPC).
- Regardless of the size of the disturbed area, fugitive dust emitted from the project must be controlled at all times through the use of best practical methods. These methods can include, but are not limited to, paving, chemical stabilization, watering, phased construction, and revegetation. For assistance with controlling fugitive dust, you may contact Travis Osterhout at (775) 687-9530.

If you have any questions on this review you may call me at (775) 687-9392, or e-mail at sjaunara@ndep.nv.gov.

Sincerely,

Sig Jaunarajs, Supervisor

Planning and Mobile Sources Branch

ENVIRONMENTAL REVIEW: AIR QUALITY ACT

Grantee:	City of Carlin	Project Name:	Improvements Project
Economic applicable actions re environme Protection	e Development Administration or e, the grant recipient assumes the res equired by local, state, and federal er ental review requirements, we as	other federal de ponsibility for envivironmental laws re requesting the th respect to the tl	ment, U.S. Department of Commerce, partment or agency requirements, as ironmental review, decision making and or authorities. In order to complete the Nevada Division of Environmental areshold for Air Quality. The pertinent, policies and/or regulations:
1,	The Clean Air Act (42 U.S.C. 740) (42 U.S.C. 7506 (c) and (d)).	et seq.) as amend	ed; particularly Section 176 (c) and (d)
	eck either line A or B below and add ach any additional comments.	any applicable com	nments in the space provided. Please feel
X A.	The project conforms to the EPA-ap the State Air Quality Management I	oproved State Impl District or Board.	ementation Plan (SIP), per contract with
B.	with the Clean Air Act. Negot Management District or Board.	ir Quality is exceediate suitable mitig	ded. The project is not in conformance gation measures with the Air Quality
NDEP C	omments:		
This surf	s project is not expected to disturb an ace area disturbance permit is not req	area in excess of fi uired.	ive (5) acres at one time, therefore, a
In th Perr	ne event a surface area disturbance pe nitting Branch at (775) 687-9536.	ermit is required, co	ontact Ryan Clark, Supervisor, BAPC
In a	ccordance with NAC 445B.22037, full lementation of this project.	gitive dust must be	controlled at all times during the
Nic	/Sur	pervisor	2/2/18
Signature			Date
	Division of Environmental Protecti	on	

Rev. 2/18



January 23, 2018

Adele Malone Nevada Bureau of Air Quality Planning 901 So. Stewart St., Suite 4001 Carson City, NV 89701

RE: City of Carlin Water and Sewer Improvements Project

Dear Ms. Malone,

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063
Total:	11,178	Total:	114,165

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727
Total:	10,446	Total:	74,345

The total estimated length of pipe to be replaced is 210,134 feet. The estimated total ground disturbance to occur during construction is 24 acres. However, since the project will be phased, only part of the 24 acres will be under construction at any time. Likewise, during each phase, only a small segment (about 0.1 acres) of the total acreage will be disturbed at any time.

We are requesting information on the possible effects of the above proposed project in which the Bureau determines if the project will have a negative environmental impact and/or any other potential effects regarding air quality. We would appreciate any of your recommendations to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposed project with State and local government or any private programs and policies regarding the environmental impacts of construction within the proposed project area.

We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Dan Sommers of Farr West Engineering at 775-851-4788.

Sincerely,

Dan Sommers

Farr West Engineering

Enc.

cc: City of Carlin, USDA

DATE: 1/25/2018

TO: Nevada State Clearinghouse, DCNR

FROM: Nevada Division of Environmental Protection, Bureau of Water Pollution Control

SUBJECT: State Clearinghouse Comments for E2018-111 (City of Carlin Sewer and Water

System Improvements)

Disclaimer: The Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control (BWPC) does not have authority for projects occurring on Tribal Lands.

The NDEP, BWPC has received the aforementioned State Clearinghouse item and offers the following comments:

The project may be subject to BWPC permitting. Permits are required for discharges to surface waters and groundwaters of the State (Nevada Administrative Code NAC 445A.228). BWPC permits include, but are not limited to, the following:

- Stormwater Industrial General Permit
- De Minimis Discharge General Permit
- Pesticide General Permit
- Drainage Well General Permit
- Temporary Permit for Discharges to Groundwater's of the State
- Working in Waters Permit
- Wastewater Discharge Permits
- Underground Injection Control Permits
- Onsite Sewage Disposal System Permits
- Holding Tank Permits

Please note that discharge permits must be issued from this Division before construction of any treatment works (Nevada Revised Statute 445A.585).

For more information on BWPC Permitting, please visit our website at: https://ndep.nv.gov/water/water-pollution-control/permitting.

Additionally, the applicant is responsible for all other permits that may be required, which may include, but may not be limited to:

Dam Safety Permits

- NDEP

Well Permits

401 Water Quality Certification

- U.S. Army Corps of Engineers

- Division of Water Resources

404 Permits

- Local Health or State Health Division

• 404 Permits

- Local Government

- Air Permits
- Health Permits
- Local Permits

Thank you for the information and the opportunity to comment.



Ginger Poulson, AA IV, Supervisor Bureau of Water Pollution Control Nevada Division of Environmental Protection 901 South Stewart Street, Suite 4001 Carson City, NV 89701 p: 775-687-9437 f: 775-684-4684

e: gpoulson@ndep.nv.gov



January 23, 2018

Joseph L. Maez, P.E. Bureau of Water Pollution Control 901 So. Stewart Street, Suite 4001 Carson City, Nevada 89701

RE: City of Carlin Water and Sewer Improvements Project

Dear Mr. Maez,

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727

The proposed project does not represent a "major construction activity" as defined in 50 CFR 402.02. We are requesting information on the possible effects of the proposed project which the Bureau determines to have a negative environmental impact with regards to water quality and/or any other potential effects. We also seek your assessment of the compatibility of the proposed project with State and local government or any private programs and policies regarding the environmental impacts of construction within the proposed project area.

We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Dan Sommers of Farr West Engineering at 775-851-4788.

Sincerely,

Dan Sommers

Farr West Engineering

Enc.

cc: City of Carlin, USDA



STATE OF NEVADA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES

Brian Sandoval Governor

Bradley Crowell Director

Kristin Szabo Administrator

Nevada Natural Heritage Program

24 January 2018

Danny Sommers Farr West Engineering 5510 Longley Lane Reno, NV 89511

RE: Data request received 23 January 2018

Dear Mr. Sommers:

We are pleased to provide the information you requested on endangered, threatened, candidate, and/or At Risk plant and animal taxa recorded within or near the City of Carlin Water and Sewer Improvements Project area in Elko County. We searched our database and maps for the following, a 2 kilometer radius around area provided including:

Township 33N Range 52E Sections 26 and 27

There are no at risk taxa recorded within the given area. However, habitat may be available for: the big-brown bat, *Eptesicus fuscus*, a Nevada Bureau of Land Management (BLM) Sensitive Species, the Columbia spotted frog (Great Basin Population) *Rana luteiventris* pop. 3, a Nevada BLM Sensitive Species; and the pygmy rabbit, *Brachylagus idahoensis*, a Nevada BLM Sensitive Species. The Nevada Department of Wildlife (NDOW) manages, protects, and restores Nevada's wildlife resources and associated habitat. Please contact Bonnie Weller, NDOW GIS biologist (775) 688-1439 to obtain further information regarding wildlife resources within and near your area of interest. Removal or destruction of state protected flora species requires a special permit from Nevada Division of Forestry (NRS 527.270).

Please note that our data are dependent on the research and observations of many individuals and organizations and in most cases are not the result of comprehensive or site-specific field surveys. Natural Heritage reports should never be regarded as final statements on the taxa or areas being considered, nor should they be substituted for on-site surveys required for environmental assessments.

Thank you for checking with our program. Please contact us for additional information or further assistance.

Sincerely,

Eric S. Miskow Biologist/Data Manager

NEVADA NATURAL HERITAGE PROGRAM DATA REQUEST FORM

rev. 2015-06

Use this form to query the Nevada Natural Heritage Program database for sensitive species location information. Please fill out this form as completely and specifically as possible, attaching additional sheets as needed. For more information on available species and data fields, fees, limitations, and restrictions, please visit our web site http://heritage.nv.gov or contact us for printed information. We cannot guarantee our response time; please allow two weeks for delivery.

Date submitted: 1/23/18		
Organization: Farr West Engi	neering	
Mailing Address: 5510 Longle	y Lane, Reno, NV 89511	
Phone: 775-853-7265	FAX: 775-851-0766	email: danny@farrwestengineering.com
Project or Site Name: City of	Carlin Water and Sewer Improver	ments
How will the information be use	ed? USDA Environmental Asse	ssment
	KIND OF SEA	ARCH
	ee schedule http://heritage.nv.gov/fees	for descriptions, costs, and examples)
X Standard (one-time),	OR Annual Subscription:	:first yearcontinuation
	MIT SEARCH BY THE FOL	
Location (please submit polygon(s) boundaries, and attach map(s) whe W1/2 sec 26, sec 27, T33N R52	n possible):	y township-range-section, map quadrangle, watershed, or other
Species: X all plants other (specify groups/taxa):	X _all animalsX	all vertebrates X all invertebrates
Status: X all sensitive	X all federal T/E/candid	date X all state T/E X all watch list
Additional Limiting Criteria:		
X Excel spreadsheet (limit OR ArcGIS shapefile (co	omplete fieldset, truncated fields) odatabase (complete fieldset, full le	for sample dataset)
	HOW YOU WANT THE R	
Please Send: X search	results immediately	cost estimate first
Send by any of the following c	hecked methods:U.S. I	Mail X email FedEx
For FedEx, include PHYS	ICAL address above, and speci	fy account to charge:
schedule http://heritage.nv.gov/fees an	d its data license agreement http://heri	he Nevada Natural Heritage Program's (NNHP's) current fee itage.nv.gov/sites/default/files/other_docs/limitats.pdf. A ata request but it is not required for subsequent requests by the
property of NNHP, and/or NatureServe, consent; (2) in any use of the data, NNI strives for accuracy and completeness	and/or those who supplied the data to IP will be cited as a source, along with the data it supplies depend on the ob-	om which they are derived, are the privileged, confidential NNHP, and will not be provided to any other party without our the year and month it supplied the data; and (3) while NNHP servations and research of many individuals and organizations, as a complete survey of any species or area.
	new Danny Somm	
Signature	Name (please p	rint) Title
Date Received	Internal Use Or	nly leceived by:

Project Manager

TRANSACTION REPORT

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NEVADA NATURAL HERITAGE PROGRAM DATA REQUEST FORM 12V. 2015-08
Use this form to query the Nevada Natural Heritage Program database for sensitive species location information. Please fill out this form as completely and specifically as possible, attaching additional sheets as needed. For more information on available species and data fields, fees, limitations, and restrictions, please visit our web site http://heritage.nv.gov or contact us for printed information. We cannot guarantee our response time; please allow two weeks for delivery.
Date submitted: 1/23/18
Organization: Farr West Engineering
Mailing Address: 5510 Longley Lane, Reno, NV 89511
Phone: 775-853-7265 FAX: 775-851-0766 email: danny@farrwestengineering.com
Project or Site Name: City of Carlin Water and Sewer Improvements
How will the Information be used? USDA Environmental Assessment
KIND OF SEARCH
(see current fee schedule http://heritage.nv.gov/fees for descriptions, costs, and examples)
X Standard (one-time), OR Annual Subscription:first yearcontinuation
LIMIT SEARCH BY THE FOLLOWING CRITERIA
Location (please submit polygon(s) of area(s) as ArcGIS files or specify by township-range-section, map quadrangle, watershed, or other boundaries, and attach map(s) when possible): W1/2 sec 26, sec 27, T33N R52E
Species: X all plants X all animals X all vertebrates X all invertebrates
other (specify groups/taxa):
Status: X all sensitive X all federal T/E/candidate X all state T/E X all watch list
Additional Limiting Criteria:
FORMAT AND CONTENT OF SEARCH RESULTS
(see http://heritage.nv.gov/gls for sample dataset)
X Excel spreadsheet (limited fieldset)
OR ArcGIS shapefile (complete fieldset, truncated fields) OR ArcGIS personal geodatabase (complete fieldset, full length fields)
projection (default=NAD83):
HOW YOU WANT THE RESULTS SENT
Please Send: X search results immediately cost estimate first
Send by any of the following checked methods: U.S. Mail X email FedEx
For FedEx, include PHYSICAL address above, and specify account to charge:
BY SIGNING BELOW, I acknowledge that I have read and agreed to abide by the Nevada Natural Heritage Program's (NNHP's) current fee schedule http://heritage.nv.gov/slees/default/files/other-docs/limitats.pdf . A signed data license agreement must be submitted with an individual's first data request but it is not required for subsequent requests by the same individual.
I also agree that (1) all data supplied, and the analytic tools and processes from which they are derived, are the privileged, confidential property of NNHP, and/or NaturaServe, and/or those who supplied the data to NNHP, and will not be provided to any other party without our consent; (2) in any use of the data, NNHP will be cited as a source, along with the year and month it supplied the data; and (3) while NNHP strives for accuracy and completeness, the data it supplies depend on the observations and research of many individuals and organizations, new data are constantly received, and in no case will the data be represented as a complete survey of any species or area.

Danny Sommers

AGENCY COMMENTS:

Water for Construction Projects

Ensure that any water used on this project is provided by an established utility or under permit or waiver issued by the State Engineer's Office with a manner of use acceptable for suggested projects water needs.



January 23, 2018

Kelvin Hickenbottom, Deputy State Engineer Nevada Division of Water Resources Nevada Department of Conservation and Natural Resources 901 S. Stewart St., Suite 2002 Carson City, NV 89701

RE: City of Carlin Water and Sewer Improvements Project

Dear Mr. Hickenbottom,

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727

We are requesting information on the possible effects of the proposed project relating to water rights, water quality, water availability, and any other potential effects of the proposed project. We would appreciate any recommendations you have to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposed project with State and local government or any private programs and policies regarding the environmental impacts of construction within the proposed project area.

We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Dan Sommers of Farr West Engineering at 775-851-4788.

Sincerely,

Dan Sommers

Farr West Engineering

Enc.

cc: City of Carlin, USDA

Danny Sommers

From:

Lindsey Lesmeister < llesmeister@ndow.org>

Sent:

Thursday, February 15, 2018 3:11 PM

To:

Danny Sommers Caleb McAdoo

Cc: Subject:

RE: Carlin Sewer and water project

Danny,

Thank you for providing NDOW the opportunity to evaluate the potential wildlife impacts from the Carlin Sewer and water project. At this time NDOW has no wildlife concern from the project, if the scope of work changes NDOW would ask for an additional opportunity to assess the potential wildlife impacts. If you have any further questions please feel free to contact me.

Thanks,



Lindsey Lesmeister, Habitat Biologist Nevada Department of Wildlife 60 Youth Center Road Elko, Nevada 89801 (775) 777-2368 llesmeister@ndow.org

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From: Danny Sommers [mailto:danny@farrwestengineering.com]

Sent: Wednesday, February 14, 2018 1:23 PM

To: Caleb McAdoo **Cc:** Lindsey Lesmeister

Subject: Carlin Sewer and water project

Hi Caleb,

I was directed by Bonnie Weller to contact you concerning this project (Please see attached maps). The project description is as follows:

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
730	6	29,734
2,029	8	40,063
405	10	1,332
104	12	26,255
3,775	14	663
1,113	16	1,055
3,022	Unknown	15,063
	730 2,029 405 104 3,775 1,113	730 6 2,029 8 405 10 104 12 3,775 14 1,113 16

Total: 11,178 Total: 114,165

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727

We are requesting information on the possible effects of the above proposed project in which the NDOW determines if the project will have a negative environmental impact and/or any other potential effects regarding wildlife and/or habitat. We would appreciate any of your recommendations to minimize or avoid these effects. We also seek your assessment of the compatibility of the proposed project with State and local government or any private programs and policies regarding the environmental impacts of construction within the proposed project area.

Please let me know if you have questions.

Thanks,

Danny

Danny Sommers Direct: (775) 853-7265 Cell: (775) 530-3359

From: Caleb McAdoo [mailto:cmcadoo@ndow.org]

Sent: Tuesday, February 13, 2018 4:48 PM

To: Danny Sommers < danny@farrwestengineering.com>

Cc: Lindsey Lesmeister < llesmeister@ndow.org>

Subject: NDOW Contact info



Caleb McAdoo, Eastern Region Habitat Supervisor Nevada Department of Wildlife 60 Youth Center Road Elko, Nevada 89801 (775) 777-2306 (775) 388-1914Cell cmcadoo@ndow.org

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State of Nevada Confidentiality Disclaimer: This motified that disclosing, copying, distributing or take	nessage is intended only for the named re ting any action in reliance on the content	ecipient. If you are not the intended recipient yous to be so this information is strictly prohibited.	ou are



STATE OF NEVADA

DEPARTMENT OF WILDLIFE

6980 Sierra Center Parkway, Suite 120 Reno, Nevada 89511 (775) 688-1500 • Fax (775) 688-1495 TONY WASLEY

Director

ELIZABETH O'BRIEN

Deputy Director

JACK ROBB
Deputy Director

January 25, 2018

Danny Sommers
Project Manager
Farr West Engineering
5510 Longley In
Reno, Nevada 89511

Re: Carlin Utility Pipeline Project

Dear Danny Sommers:

I am responding to your request for information from the Nevada Department of Wildlife (NDOW) on the known or potential occurrence of wildlife resources in the vicinity of the Carlin Utility Pipeline Project located in Elko County, Nevada. In order to fulfill your request an analysis was performed using the best available data from the NDOW's wildlife occurrences, raptor nest sites and ranges, greater sage-grouse leks and habitat, and big game distributions databases. No warranty is made by the NDOW as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data. These data should be considered **sensitive** and may contain information regarding the location of sensitive wildlife species or resources. All appropriate measures should be taken to ensure that the use of this data is strictly limited to serve the needs of the project described on your GIS Data Request Form. Abuse of this information has the potential to adversely affect the existing ecological status of Nevada's wildlife resources and could be cause for the denial of future data requests.

To adequately provide wildlife resource information in the vicinity of the proposed project the NDOW delineated an area of interest that included a four-mile buffer around the project area provided by you on Tuesday, January 23, 2018. Wildlife resource data was queried from the NDOW databases based on this area of interest. The results of this analysis are summarized below.

Big Game - Occupied elk, mule deer, and pronghorn antelope distributions exist within portions of the project area and four-mile buffer area. No known occupied bighorn sheep distribution exists in the vicinity of the project area. Please refer to the attached maps for details regarding big game distributions relative to the proposed project area.

Greater Sage-Grouse - Greater sage-grouse habitat in the vicinity of the project area has primarily been classified as Other habitat by the Nevada Sagebrush Ecosystem Program (http://sagebrusheco.nv.gov). Priority and General habitat also exists in the vicinity of the project area. Please refer to the attached map for details regarding greater sage-grouse habitat relative to the proposed project area. There are no known radio-marked greater sage-grouse tracking locations in the vicinity of the project area. There are no known greater sage-grouse lek sites in the vicinity of the project area.

Lahontan Cutthroat Trout - are known to exist in the vicinity of the project area in the Lower Maggie Creek watershed.

Raptors - Various species of raptors, which use diverse habitat types, may reside in the vicinity of the project area. American kestrel, bald eagle, barn owl, burrowing owl, Cooper's hawk, ferruginous hawk, golden eagle, great horned owl, long-eared owl, merlin, northern goshawk, northern harrier, northern saw-whet owl, osprey, peregrine falcon, red-tailed hawk, rough-legged hawk, sharp-shinned hawk, short-eared owl, Swainson's hawk, turkey vulture, and western screech owl have distribution ranges that include the project area and four-mile buffer area. Furthermore, bald eagle, barn owl, golden eagle, merlin, prairie

falcon, and rough-legged hawk have been directly observed in the vicinity of the project area.

Raptor species are protected by State and Federal laws. In addition, bald eagle, burrowing owl, California spotted owl, ferruginous hawk, flammulated owl, golden eagle, northern goshawk, peregrine falcon, prairie falcon, and short-eared owl are NDOW species of special concern and are target species for conservation as outlined by the Nevada Wildlife Action Plan. Per the *Interim Golden Eagle Technical Guidance: Inventory and Monitoring Protocols; and Other Recommendations in Support of Golden Eagle Management and Permit Issuance* (United States Fish and Wildlife Service 2010) we have queried our raptor nest database to include raptor nest sites within ten miles of the proposed project area. There are 77 known raptor nest sites within ten miles of the project area. Please refer to the appendix for details regarding these raptor nest sites.

Other Wildlife Resources

There are no water developments in the vicinity of the project area. The following species have also been observed in the vicinity of the project area:

Common Name	ESA State	SWAP SoCP
ambersnail (unknown)		Minimal Marketine and the second of the Marketine and the second of the
American beaver	Furbearer	
black-billed magpie	Protected	
California floater		Yes
California quail		
California toad		Yes
chukar		
common raven	Protected	
Cortez Hills (Carlin) pebblesnail		
cottontail (unknown)		
fingernail clam (unknown)		
gray partridge		
northern river otter	Furbearer	Yes
physa (unknown)		
pondsnail (unknown)		
pygmy rabbit		Yes
raccoon		
ruffed grouse		
slug (unknown)		
springsnail (unknown)		
striped whipsnake		

ESA: Endangered Species Act Status State: State of Nevada Special Status

SWAP SoCP: Nevada State Wildlife Action Plan (2012) Species of Conservation Priority

The proposed project area may also be in the vicinity of abandoned mine workings, which often provide habitat for state and federally protected wildlife, especially bat species, many of which are protected under NAC 503.030. To request data regarding known abandoned mine workings in the vicinity of the project area please contact the Nevada Division of Minerals (http://minerals.state.nv.us/).

The above information is based on data stored at our Reno Headquarters Office, and does not necessarily incorporate the most up to date wildlife resource information collected in the field. Please

contact the Habitat Division Supervising Biologist at our Eastern Region Elko Office (775.777.2300) to discuss the current environmental conditions for your project area and the interpretation of our analysis. Furthermore, it should be noted that the information detailed above is preliminary in nature and not necessarily an identification of every wildlife resource concern associated with the proposed project. Consultation with the Supervising Habitat biologist will facilitate the development of appropriate survey protocols and avoidance or mitigation measures that may be required to address potential impacts to wildlife resources.

Caleb McAdoo - Eastern Region Habitat Supervisor (775.777.2306)

Federally listed Threatened and Endangered species are also under the jurisdiction of the United States Fish and Wildlife Service. Please contact them for more information regarding these species.

If you have any questions regarding the results or methodology of this analysis please do not hesitate to contact our GIS office at (775) 688-1439.

Sincerely,

NEVADA

Bonnie Weller, GIS Analyst

Data and Technology Services Nevada Department of Wildlife 6980 Sierra Center Parkway, Ste. 120

Reno, Nevada 89511 (775) 688-1439

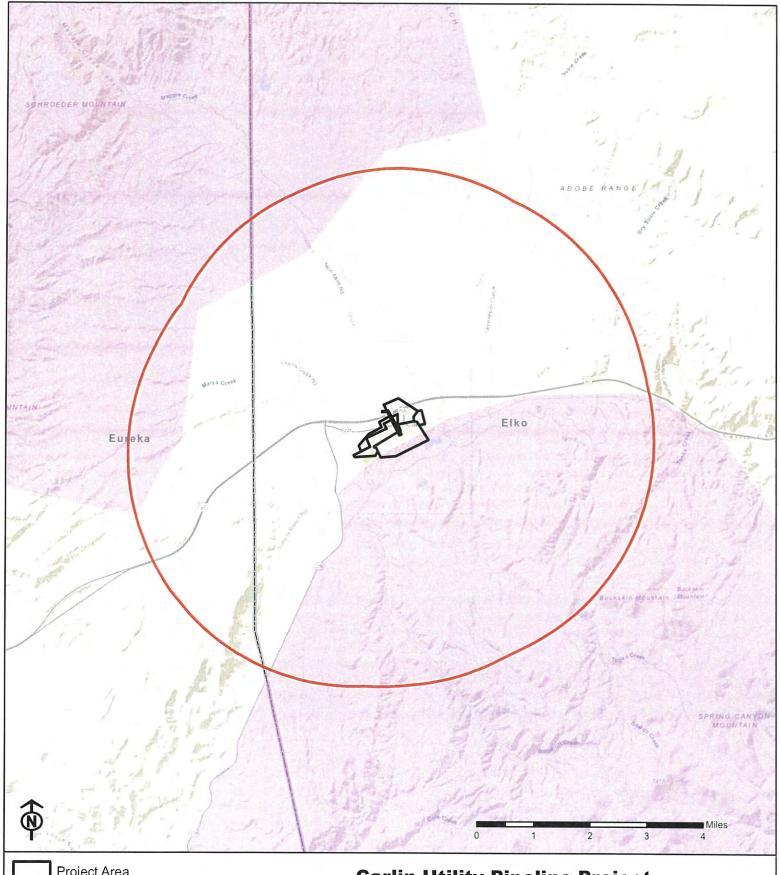
nnie Weller

bweller@ndow.org

Appendix: Raptor Nest Sites Table

Probable Use	Last Check	Last Active	Township/Range/Section
Buteo	4/14/1982		21 0310N 0510E 002
Buteo	1/1/1994	1/1/1994	21 0330N 0520E 026
Buteo	5/23/2001		21 0310N 0510E 003
Buteo	5/3/2004	5/3/2004	21 0320N 0510E 035
Buteo	5/8/2014	5/8/2014	
Buteo	5/8/2014	5/8/2014	
Buteo	5/8/2014		
Buteo/Corvid	5/29/2007	5/29/2007	21 0320N 0510E 036
Buteo/Corvid	5/7/2014	5/7/2014	
Buteo/Corvid	5/7/2014		
Buteo/Corvid	5/8/2014		
Corvid	5/7/2014	5/7/2014	
Corvid	5/7/2014		
Corvid	5/8/2014	5/8/2014	
Corvid	5/8/2014	5/8/2014	•
Corvid	5/8/2014		
Eagle	3/7/1972	3/7/1972	21 0330N 0530E 014
Eagle	4/29/1972		21 0330N 0540E 032
Eagle	5/26/1972		21 0320N 0530E 007
Eagle	5/26/1972		21 0320N 0530E 007
Eagle	5/4/1973	5/4/1973	21 0340N 0510E 022
Eagle	5/15/1974		21 0330N 0530E 002
Eagle	6/1/1974		21 0340N 0510E 025
Eagle	6/14/1975	6/14/1975	21 0310N 0520E 004
Eagle	5/23/2001		21 0320N 0520E 008
Eagle	5/29/2007	5/29/2007	21 0320N 0510E 025
Eagle	5/29/2007		21 0320N 0510E 025
Eagle	6/2/2011	6/2/2011	21 0310N 0510E 003
Eagle	6/2/2011	6/2/2011	21 0310N 0520E 006
Eagle	6/2/2011	6/2/2011	21 0320N 0520E 030
Eagle	5/7/2014	1/1/1974	21 0330N 0530E 028
Eagle	5/7/2014	5/29/2007	21 0330N 0530E 028
Eagle	5/7/2014	5/7/2014	
Eagle	5/7/2014	5/7/2014	
Eagle	5/7/2014	5/7/2014	•
Eagle	5/7/2014	5/7/2014	
Eagle	5/7/2014		210330N0530E026
Eagle	5/7/2014		•
Eagle	5/7/2014		
Eagle	5/7/2014		
Eagle	5/7/2014		

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Eagle Eagle	5/7/2014 5/7/2014		
_	5/7/2014 5/7/2014		
Eagle			
Eagle	5/8/2014		
Eagle	5/8/2014	-11	
Eagle/Buteo	6/2/2011	5/29/2007	21 0310N 0510E 010
Eagle/Buteo	6/2/2011		21 0320N 0520E 030
Eagle/Buteo	5/7/2014	5/7/2014	
Eagle/Buteo	5/7/2014		21 0320N 0520E 032
Eagle/Buteo	5/7/2014		21 0330N 0530E 026
Eagle/Buteo	5/7/2014		
Eagle/Buteo	5/8/2014	5/8/2014	
Eagle/Buteo	5/8/2014		
Eagle/Buteo	5/8/2014		
Falcon - Confirmed	6/14/1975	6/14/1975	21 0310N 0510E 010
Falcon - Confirmed	5/29/2007	5/29/2007	21 0320N 0510E 025
Falcon - Confirmed	5/29/2007	5/29/2007	21 0320N 0510E 036
Falcon - Confirmed	5/23/2010	5/23/2010	21 0320N 0530E 035
Falcon - Probable	1/1/1974	1/1/1974	21 0320N 0510E 036
Falcon - Probable	6/10/1975		21 0330N 0540E 019
Falcon - Probable	6/14/1975	6/14/1975	21 0320N 0510E 036
Falcon - Probable	6/22/1976		21 0330N 0540E 019
Falcon - Probable	3/10/1977		21 0320N 0510E 035
Falcon - Probable	3/10/1977		21 0320N 0510E 036
Falcon - Probable	5/23/2001	5/23/2001	21 0310N 0510E 003
Falcon - Probable	5/29/2007	5/29/2007	21 0320N 0510E 036
Falcon - Probable	5/7/2014	5/7/2014	21 002011 00 102 000
Falcon - Probable	5/7/2014	5/7/2014	
Falcon - Probable	5/8/2014	5/8/2014	
Ferruginous Hawk	6/1/1993	0,0,2017	21 0330N 0510E 034
Ferruginous Hawk	6/1/1993		21 0340N 0510E 034 21 0340N 0510E 024
Unknown	5/8/2014	5/8/2014	21 0340N 03 IVE 024





Carlin Utility Pipeline Project Elk Distribution

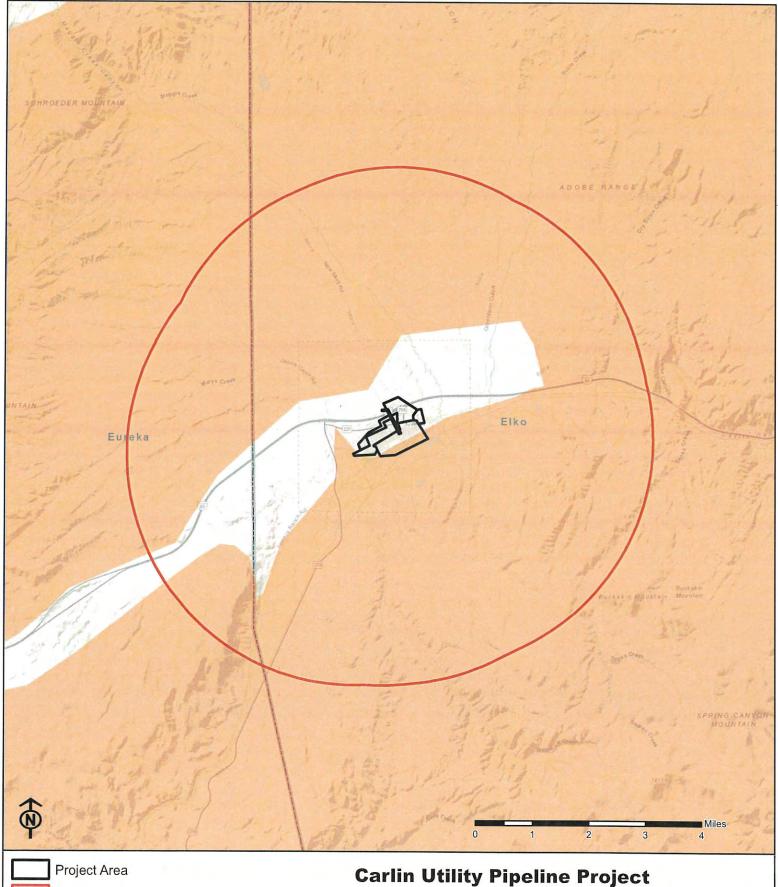
January 25, 2018

Projection: UTM Zone 11 North, NAD83

No warranty is made by the Nevada Department of Wildlife as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data.







Four Mile Buffer Area Boundary

Mule Deer Distribution

Carlin Utility Pipeline Project Mule Deer Distribution

January 25, 2018

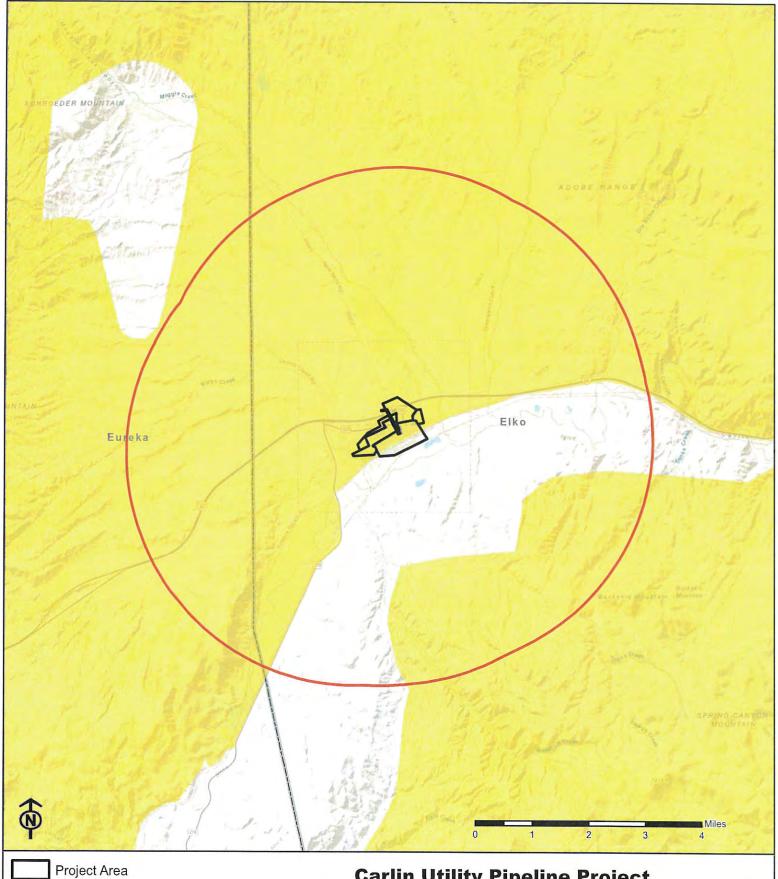
Projection: UTM Zone 11 North, NAD83

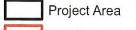
No warranty is made by the Nevada Department of Wildlife as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data.











Four Mile Buffer Area Boundary

Pronghorn Antelope Distribution

Carlin Utility Pipeline Project Pronghorn Antelope Distribution

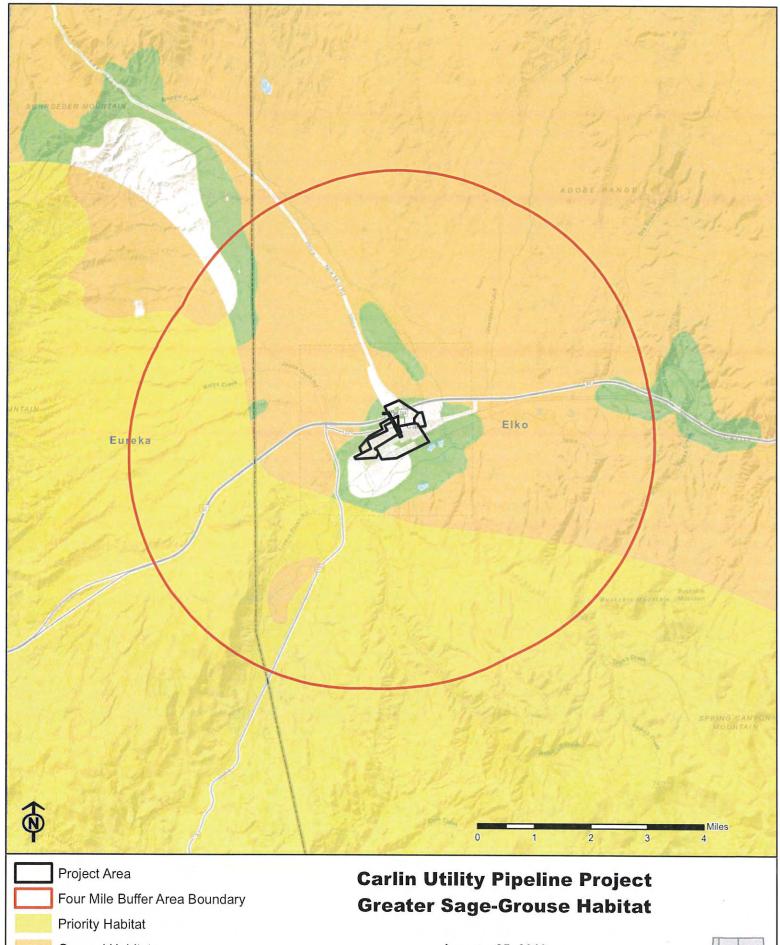
January 25, 2018

Projection: UTM Zone 11 North, NAD83

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General Habitat

Other Habitat

Bi-State Habitat

January 25, 2018

Projection: UTM Zone 11 North, NAD83

No warranty is made by the Nevada Department of Wildlife as to the accuracy, reliability, or completeness of the data for individual use or aggregate use with other data.







STATE OF NEVADA

DEPARTMENT OF WILDLIFE

6980 Sierra Center Parkway, Suite 120 Reno, Nevada 89511 (775) 688-1500 • Fax (775) 688-1595 TONY WASLEY Director

JACK ROBB Deputy Director

ELIZABETH O'BRIEN Deputy Director

DATA REQUEST FORM

In order to refine our database queries and provide the most detailed information available, the Nevada Department of Wildlife (NDOW) requires information that details the need for NDOW data and how it would be used. This information will allow the NDOW to better anticipate resource management needs, as well

Name:	Danny Sommers		Title: Project r	nanager			
Organization:	Farr West Engineeri	ng					
Address:	5510 Longley lane	City:	Reno	State:	NV	Zip:	8951
Phone Number:	775-853-7265	Email:	danny@farrwes	tenginee	ring.cor	n	
REQUEST TYPE (CHEC	K ONE):						
Standard Project Site Analysis Estimated response		-	Specific Wildlife Data Request Estimated response ti	me: 2-3 w]		
PROJECT DESCRIPTIO	N [ATTACH ADDITIONAL F		Signed Data Sharing .			required	
PROJECT DESCRIPTIO	n [Attach additional F Carlin Water/Sewer	PAGES AS I	Signed Data Sharing .	Agreemen	t may be	required er pipeli	ne
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Project Name:	Carlin Water/Sewer 525	PAGES AS I Pro Pro Sta	Signed Data Sharing ANEEDED]: Dject Type ¹ : Dject	Agreemen Wa Aug	t may be ter/sewe gust 201	er pipeli	

USDA Environmental Assessment

- E.g. Solar/wind/geothermal (renewable) energy development; Fossil fuel energy development; Mining; Urban development; Energy transmission line; Pipeline; Communication line; Recreation; Restoration; Research or modeling (no surface disturbance);
- New; Expansion/amendment to existing project; Restoration/reclamation.
- Attach ESRI shapefile (or similar format such as KML/KMZ files) delineating area of interest or provide location coordinates for areas less than one acre. Minimum required information includes Public Land Survey System (PLSS) location information [Township/Range/Sections] or map documents, but this may delay response.
- Describe how data will be used. Examples include land use development planning, incorporation into modeling efforts, restoration monitoring, recreational interest, etc.

The completion of this form will ensure that you receive the most accurate response possible. No warranty is made by the NDOW as to the accuracy, reliability, or completeness of the data provided for individual use or aggregate use with other data. Information received may be considered sensitive and may contain information regarding the location of sensitive wildlife species. All appropriate measures should be taken to ensure the use of any data received is strictly limited to serve the needs of the project described above. Abuse of NDOW information has the potential to adversely affect the existing ecological status of Nevada's wildlife resources and could be cause for the denial of future data requests.

Please submit form to: Bonnie Weller - GIS Biologist III - bweller@ndow.org - 775.688.1439

Danny Sommers

From: Danny Sommers

Sent: Tuesday, February 20, 2018 2:40 PM

To: 'Skip Canfield'

Subject: RE: State Agency Comments E2018-111 City of Carlin Sewer and Water System

Improvements

Thanks Skip!

Danny Sommers Direct: (775) 853-7265 Cell: (775) 530-3359

From: Skip Canfield [mailto:scanfield@lands.nv.gov]

Sent: Tuesday, February 20, 2018 2:38 PM

To: Danny Sommers <danny@farrwestengineering.com>

Cc: Skip Canfield <scanfield@lands.nv.gov>

Subject: State Agency Comments E2018-111 City of Carlin Sewer and Water System Improvements

Hi Danny:

The Nevada State Clearinghouse received the attached three comment documents regarding the City of Carlin Sewer and Water System Improvements proposal;

http://clearinghouse.nv.gov/public/Notice/2018/E2018-111.pdf

Skip Canfield

Nevada State Clearinghouse State Land Use Planning Agency

Nevada Division of State Lands Department of Conservation and Natural Resources 901 South Stewart Street, Suite 5003 Carson City, NV 89701 775-684-2723

http://clearinghouse.nv.gov www.lands.nv.gov

Danny Sommers

From:

Danny Sommers

Sent:

Wednesday, January 24, 2018 11:14 AM

To:

'Skip Canfield'

Subject:

RE: City of Carlin sewer and water system improvements

Thanks!

Danny Sommers

Direct: (775) 853-7265 Cell: (775) 530-3359

From: Skip Canfield [mailto:scanfield@lands.nv.gov]

Sent: Wednesday, January 24, 2018 11:12 AM

To: Danny Sommers <danny@farrwestengineering.com>

Subject: RE: City of Carlin sewer and water system improvements

OK I'll do that now, I'm in the system, have a good day. -Skip

Skip Canfield

Nevada State Clearinghouse State Land Use Planning Agency

Nevada Division of State Lands
Department of Conservation and Natural Resources
901 South Stewart Street, Suite 5003
Carson City, NV 89701

775-684-2723

http://clearinghouse.nv.gov

www.lands.nv.gov

From: Danny Sommers [mailto:danny@farrwestengineering.com]

Sent: Wednesday, January 24, 2018 11:06 AM **To:** Skip Canfield <scanfield@lands.nv.gov>

Subject: City of Carlin sewer and water system improvements

Hi Skip,

Please see the attached. Thanks for the help.

Danny



Senior Project Manager Farr West Engineering 5510 Longley Lane Reno, NV 89511

Main: (775) 851-4788 Direct: (775) 853-7265 Cell: (775) 530-3359 Fax: (775) 851-0766

www.farrwestengineering.com



January 23, 2018

Skip Canfield Nevada Division of State Lands 901 S. Stewart St, Ste 5003 Carson City, NV 89701-5246

RE: City of Carlin Water and Sewer Improvements Project

Dear Mr. Canfield:

The City of Carlin is in the process of performing an environmental review pursuant to the National Environmental Policy Act for USDA Rural Development in order that it may assess the environmental impacts of water and sewer system improvements in Carlin, Nevada. The project includes the items listed below. Enclosed is a map that depicts the proposed project's area of potential effect for all construction activities.

The project includes the installation of the following water and sewer pipes:

WATER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3/4	730	6	29,734
1	2,029	8	40,063
1 1/4	405	10	1,332
1 ½	104	12	26,255
2	3,775	14	663
3	1,113	16	1,055
4	3,022	Unknown	15,063

SEWER

PIPE DIAMETER (in)	PIPE LENGTH (ft)	PIPE DIAMETER (in)	PIPE LENGTH (ft)
3	1,754	8	57,987
4	1,515	10	8,631
6	7,177	Unknown	7,727

Please distribute this information to any entity that might have an interest in the project. All responses and/or recommendations will be used to complete the USDA environmental assessment. We would appreciate a response within 30 days. If you need further information or wish to discuss the project, please contact Dan Sommers of Farr West Engineering at 775-851-4788.

Sincerely,

Dan Sommers Farr West Engineering

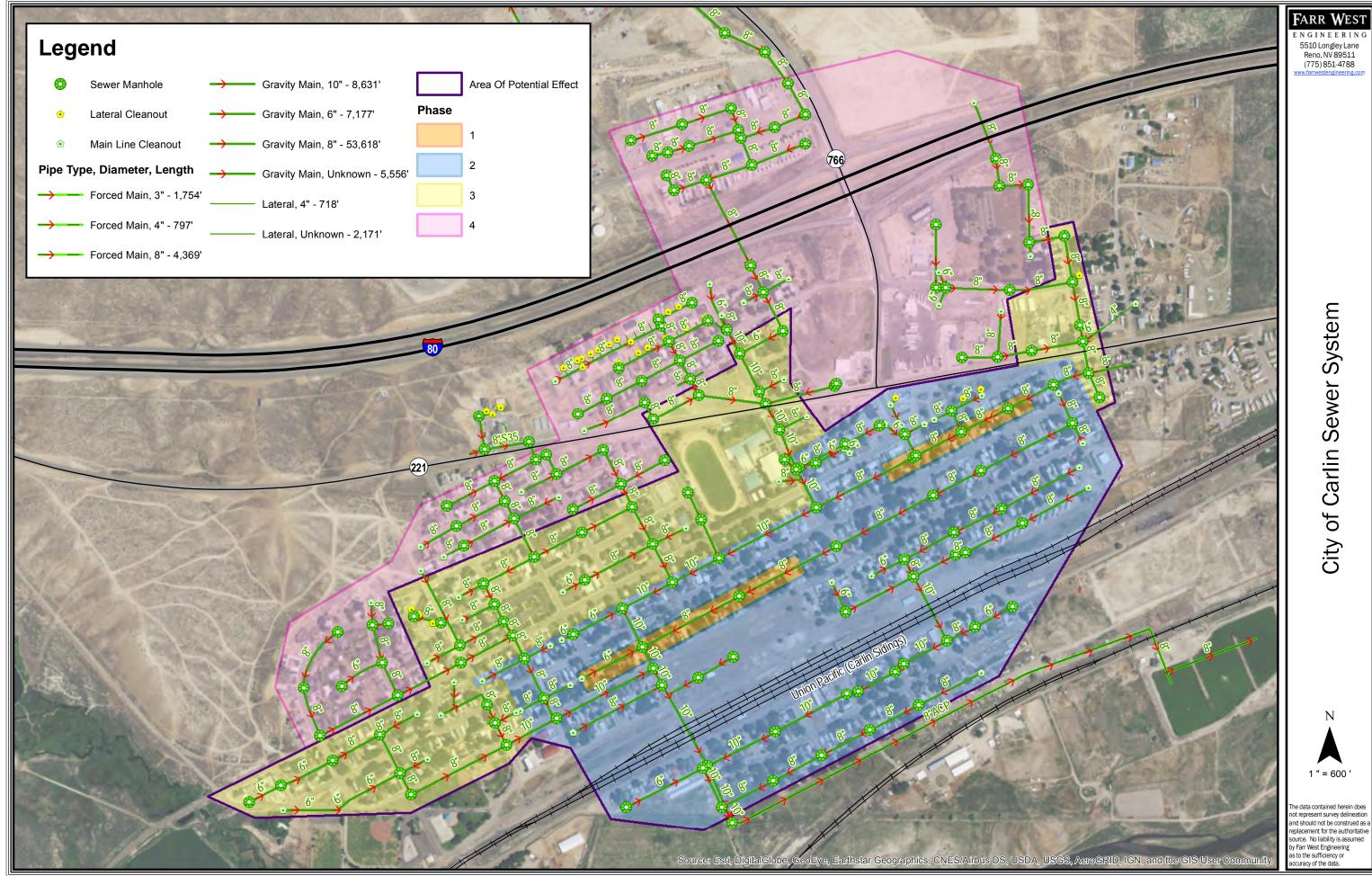
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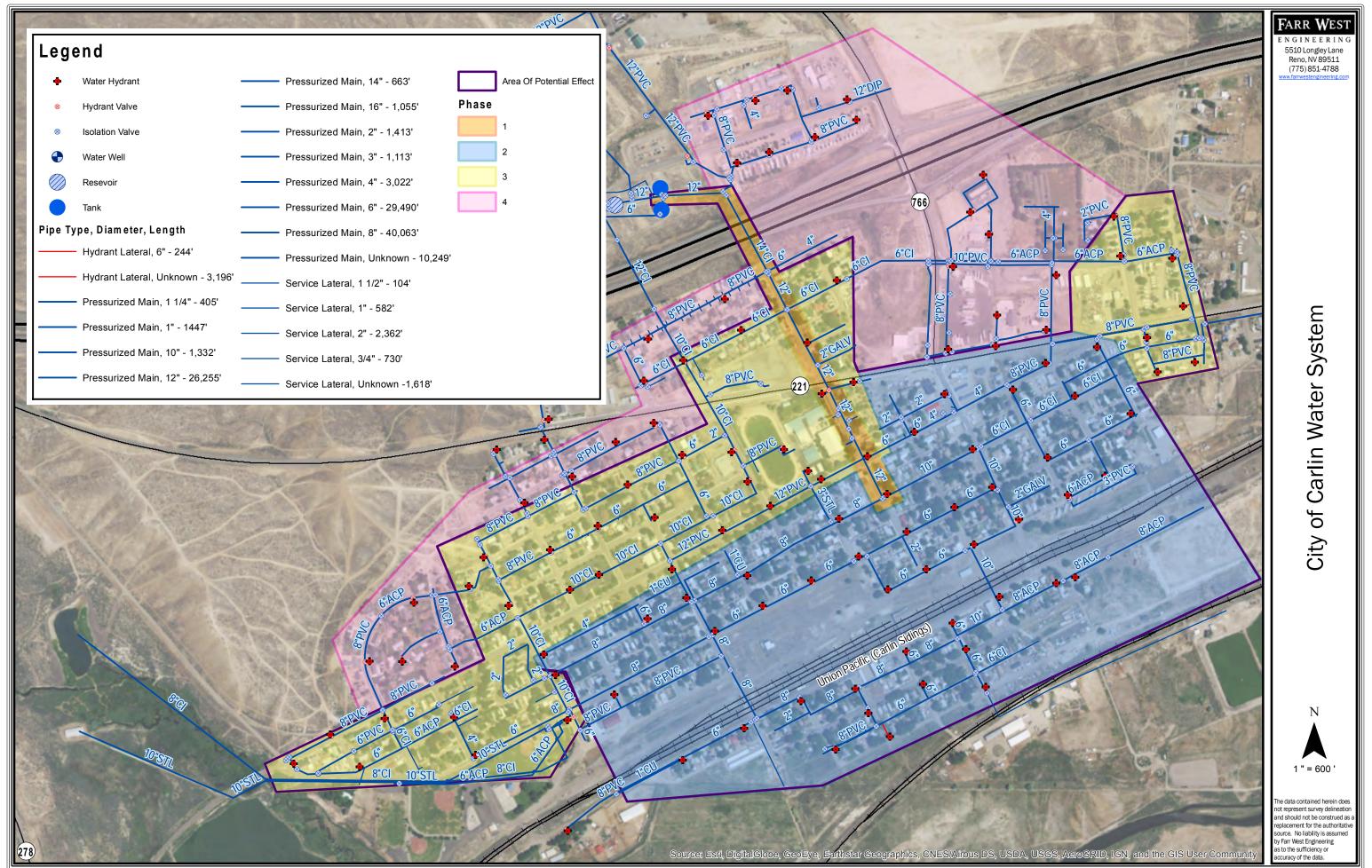
cc: City of Carlin, USDA

7.0 REFERENCES

This section includes the following exhibits:

- Map of the proposed project elements
- FEMA maps
- Wetlands maps
- EPA Sole Source Aquifer Fact Sheet
- Nevada Natural Landmarks
- Nevada Wilderness Areas





This map is for use in administering the National Flood insurance Program, it does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be consulted for possible updated or additional flood hazard information.

Consulted for possible updated or applicable hold near information. To obtain more detailed information in steam where Base Flood Elevations (BFEs) and/or floodways have been determined, uses are encouraged to consult of the controller and Floodway Date of the controller and Floodway Date of the controller and Floodway Date of the controller and the controller and Floodway Date of the controller and the contr

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Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

Flood elevations on this map size referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding convention between the National Gaodetic Vertical Datum of 1929 and the North American Vertical Datum of 1986, visit the National Geodetic Vertical Datum of 1989, visit the National Geodetic Vertical Datum of 1989, visit the National Geodetic Survey at the 1989 of 1989, visit the National Geodetic Survey at the following address:

NAME OF THE PROPERTY OF THE PR

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.ngs.naaa.gov/

Base map information shown on this FIRM was provided in digital formal by the USDA National Agriculture Imagery Program (NAP). This information was photogrammedically compiled at a scale of 1:12,000 from serial photography data 2006.

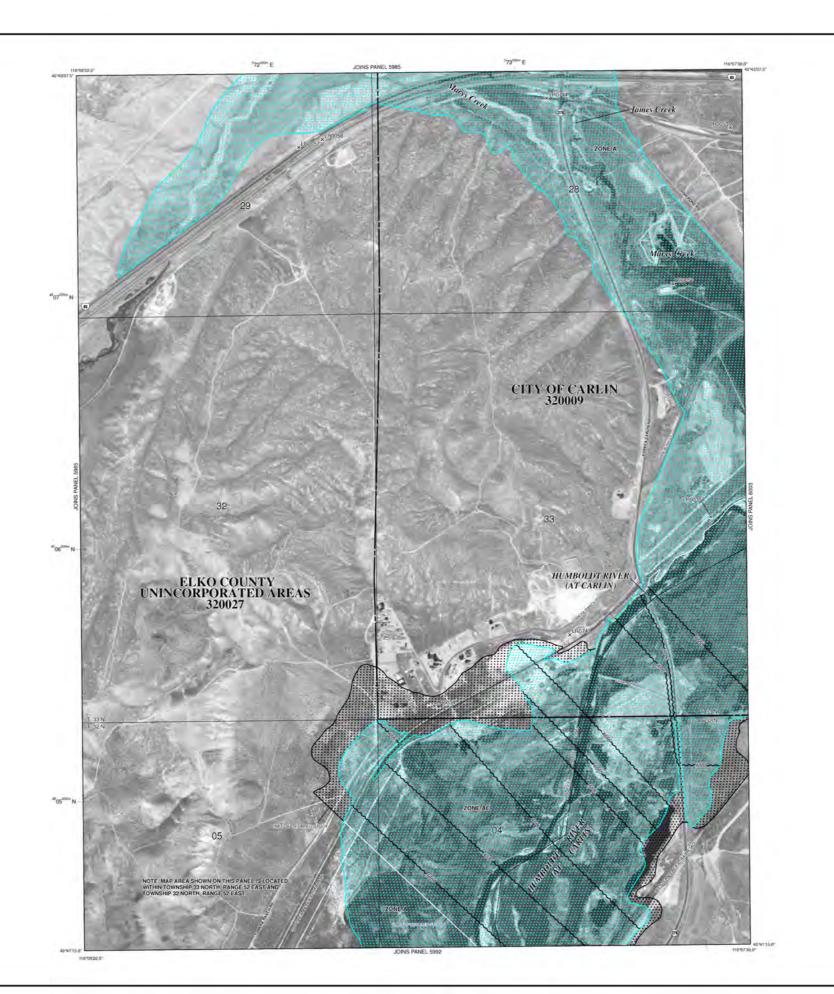
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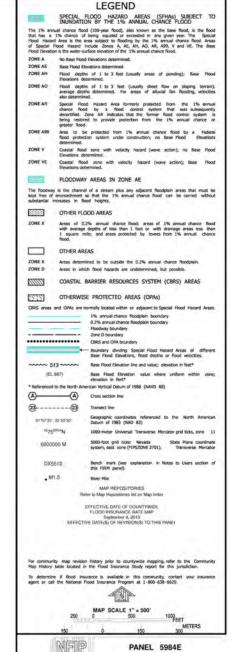
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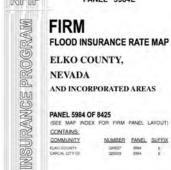
Please refer to the separately printed Map Index for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Plogram dates for each community as well as a listing of the panels on which each community is located.

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Fired including historic versions of this FIRM, how to order products or the National Fired Color Insurance Program in general, pleased all the FIEMA May possible continued at 1-877-EMA-MAP (1-877-358-8227) or visit the FEMA Map Service Centre website at http://mac.neap.or/. Available products may include previously issued Letters Offsac at http://mac.neap.or/. Available products in the products of the product previously issued Letters offsac https://doi.org/.

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CONTAINS: COMMUNITY NUMBER PANEL SUFFIX 320027 5994 L 320009 5984 E



SEPTEMBER 4, 2013

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To obtain more detailed information in areas where Base Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Ploodway Data and/or Summary of Stitwater Elevations tables. The state of the Profiles and Ploodway Data and/or Summary of Stitwater Elevations tables and the state of the Profiles and Ploodway Data and/or Summary of Stitwater Elevations tables. The state of the Profiles and the accompanies to the Profiles and the Profiles and the Stitward State of the Profiles and the Prof

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Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations relevenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1989, and the North American Vertical Datum of 1989, visit the National Geodetic Survey website at http://www.nps.noaa.gov/ or contact the National Geodetic

NGS Information Services NOAA, NNGS12 National Geodetic Survey SSMC-3, #3202 1315 East-West Highway Silver Spring, MD 20910-3282

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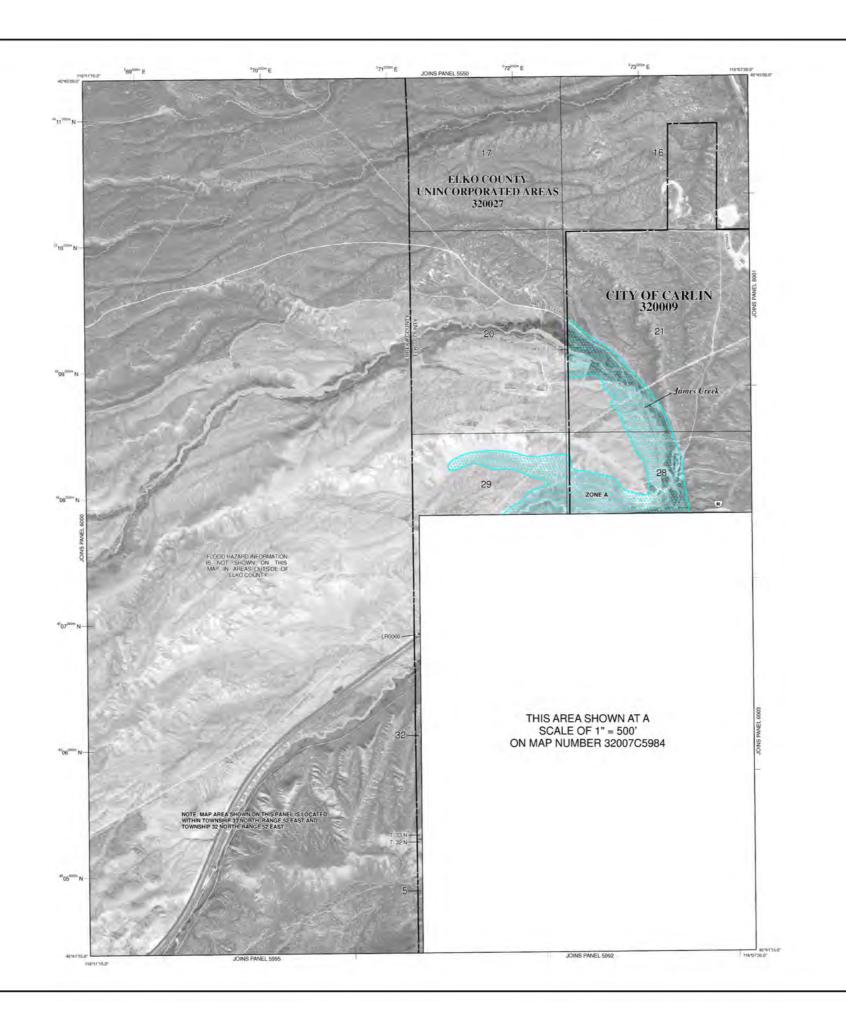
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NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

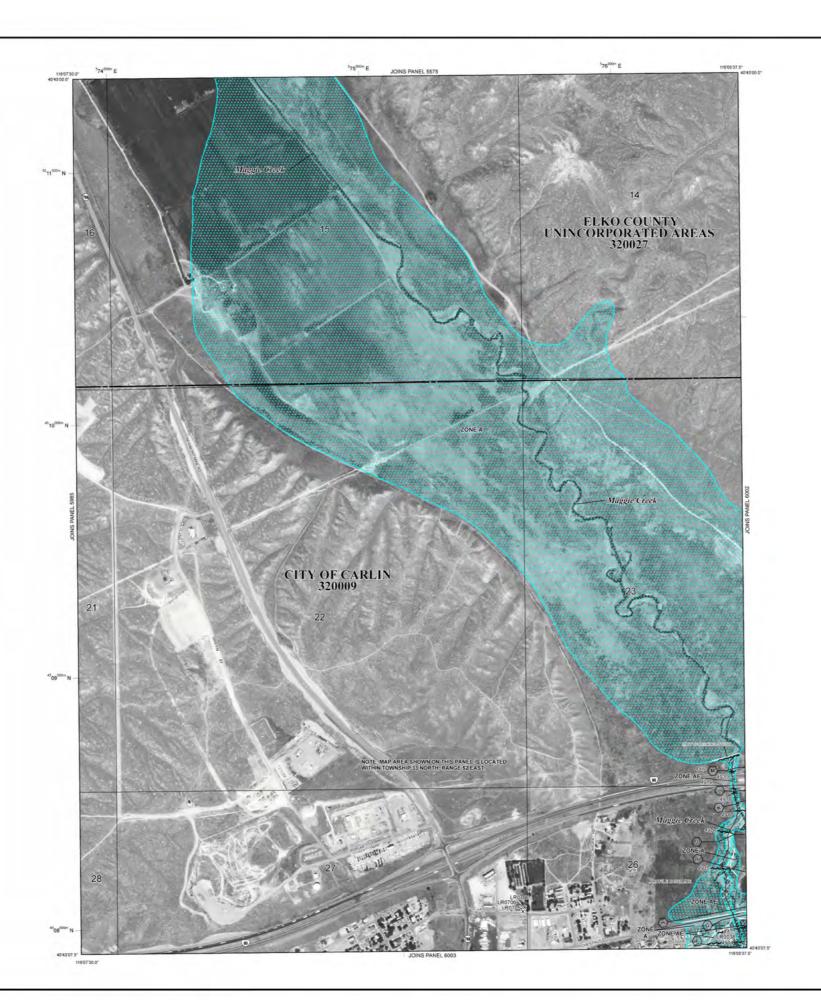
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SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any johen year. The Special Flood Hazard Aries the aires subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include zones A. Al., Ali, A.A., Ali, 9, V and VE. The Base Flood Evestion for the same chance chance flood. ZONE AE ZONE AH No Base Flood Elevations determined. Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. Bevasions determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. ZONE AO Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined. Coastal flood zone with velocity hazard (wave action); no Base Flood Blevations determined. ZONE VE Coastal food zone with velocity hazard (wave action); Base Flood Elevations determined. FLOODWAY AREAS IN ZONE AE The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights. OTHER FLOOD AREAS Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 floot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. OTHER AREAS Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible. ZONE X COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS OTHERWISE PROTECTED AREAS (OPAs) CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. 1% annual chance floodplain boundary 0.2% annual chance floodplain boundary Floodway boundary Floodway boundary Zone D boundary CBRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. Base Flood Elevation line and value; elevation in feet* (EL 987) Base Flood Elevation value where uniform within zone elevation in feet* merican Vertical Datum of 1988 (NAVD 88) **A**-_____(A) (23)-----(23) Geographic coordinates referenced to the North American Datum of 1983 (NAD 83) 970730", 32'22'30" 4275^{900m}N 1000-meter Universal Transverse Mercator grid ticks, zone 11 5000-foot grid ticks: Neveda State Plane coordinate system, east zone (FIPSZONE 2701), Transverse Mercator 6000000 M River Mile EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 4, 2013 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL For community map revision history prior to countywide mapping, refer to the Communit Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620. 250 0 SCALE 1" = 500' 1000 FEET METERS PANEL 6001E FIRM FLOOD INSURANCE RATE MAP ELKO COUNTY, NEVADA AND INCORPORATED AREAS INSURANCE PANEL 6001 OF 8425 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) COMMUNITY NUMBER PANEL SUFFIX 320027 6001 E 320009 6001 E FL000

MAP NUMBER 32007C6001E EFFECTIVE DATE SEPTEMBER 4, 2013

Federal Emergency Management Agency

LEGEND

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Flood elevations on this map are referenced to the North American Vertical Datum of 1998. These flood elevations must be compared to structure and ground elevations referenced to the same vertical datum. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1989, visit the National Geodetic Survey wibside at Integrit National Geodetic Survey at the following address:

NGS Information Services NOAA, NNGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

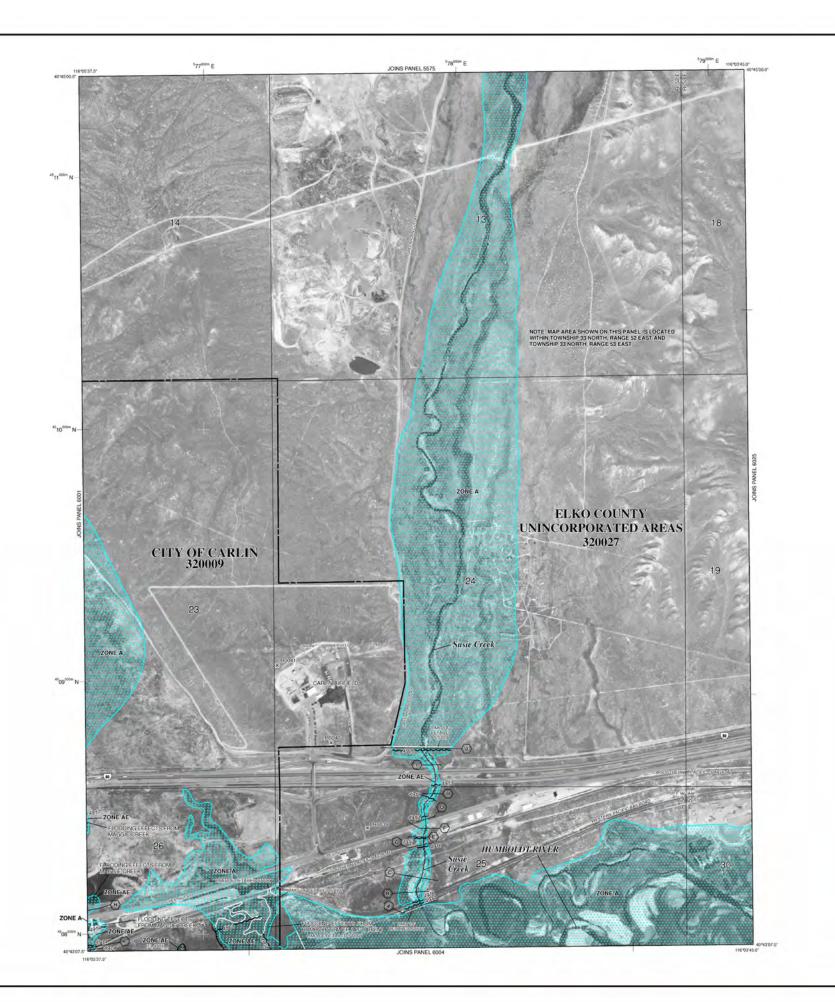
Base map information shown on this FIRM was provided in digital format by the USDA National Agriculture Imagery Program (NAIP). This information was photogrammerically compiled at a scale of 1:12,000 from serial photography data 2006.

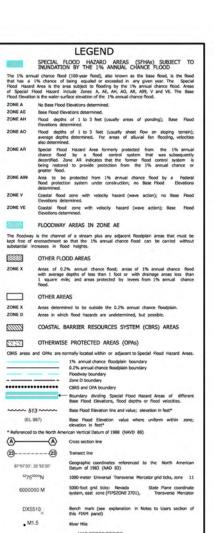
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Please refer to the separately printed **Map Index** for an overview map of the country showing the layout of map panels; community map repository; addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information and questions about this map, available products associated with this FIRM including historic versions of this FIRM, how to order products or the National Fired Instruction Program in general, pleases call the FEMA Map information eXchange at 1-877-FEMA-MAP (1-877-338-8527) or wist the FEMA Map Service Centre website at http://mac.hem.appv. Available products may include previously sessed Letters ofMap Change, a Flood insurance Study Report, and/or digital versions of this map. Many of determine the current map date for each FIRM panel by visiting the FEMA Map Service Center website or by calling the FEMA Map Information eXchange.





EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 4, 2013 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



PANEL 6002E FIRM FLOOD INSURANCE RATE MAP ELKO COUNTY. NEVADA AND INCORPORATED AREAS PANEL 6002 OF 8425 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) NUMBER PANEL SUFFIX COMMUNITY 320027 6002 E 320009 6002 E MAP NUMBER FEFECTIVE DATE SEPTEMBER 4, 2013

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The community map repository should be

To obtain more detailed information in areas where Sase Flood Elevations (BFEs) and/or floodways have been determined, users are encouraged to consult the Flood Profiles and Floodways Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs aboun on the FIRM represent rounded whole-floot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the soile source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in origination with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0 North American Vertical Datum of 1968 (NAVIO 88). Users of this FIRM should be aware that costal flood elevations are also provided in the Summany of Stiftwater Elevations table in the Flood Insurance Study report or this jurisdiction. Elevations shown in the Summany of Stiftwater Elevations table should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FRIOL.

Boundaries of the **floodways** were computed at cross sections and interpolate between cross sections. The floodways were based on hydrautic consideration with regard to requirements of the National Flood insurance Program. Roodway widths and other perinent Boodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by flood control structures. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures

The projection used in the preparation of this map was Universal Transverse Mercator (UTIN) zone 1. The horizontal datum was NAD-33, GRS1896 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent plansications may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

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NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC+3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for bench marks shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at http://www.nos.noan.org/

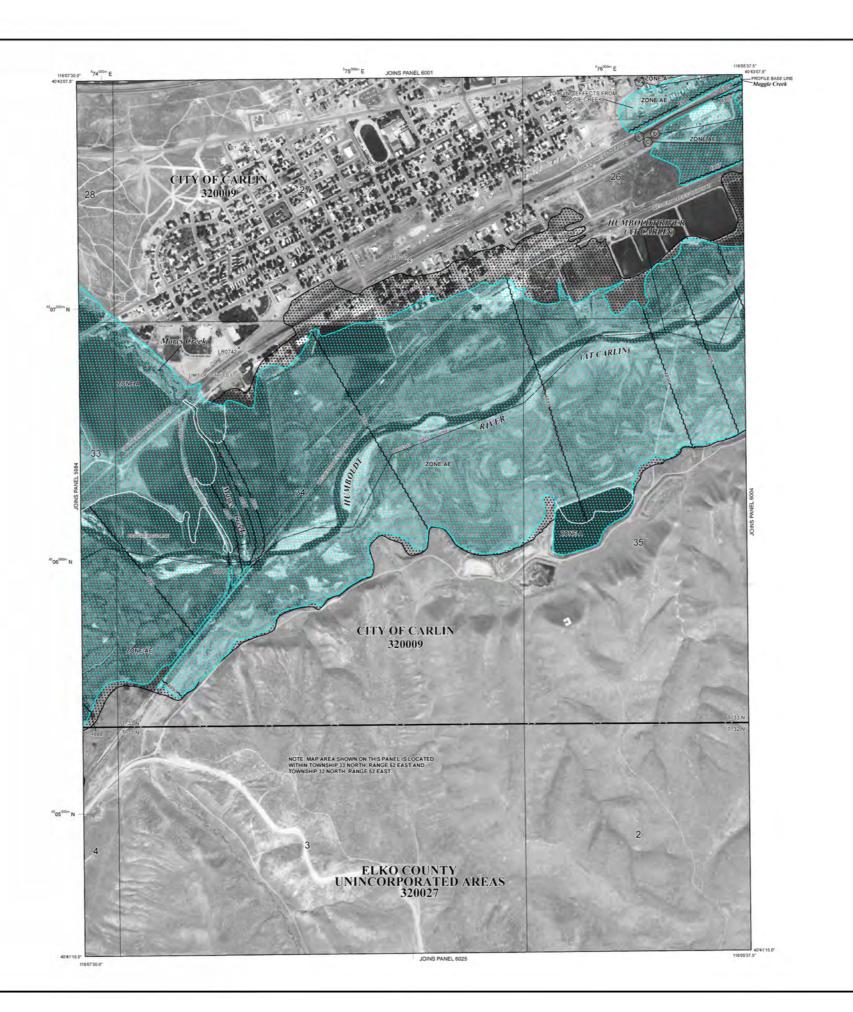
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LEGEND SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any johen year. The Special Flood Hazad Area is the aires subject to flooding by the 1% annual chance flood. Aread of hazad include zones A. AE, AH, AD, AR, AR, W, V and VE. The Base Flood Evision is the water-surface excellent off se this arrance chance flood. ZONE AE ZONE AH Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined. Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined. Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined. FLOODWAY AREAS IN ZONE AE The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroschment so that the 1% annual chance flood can be carried without substantial increases in flood heights. 38888 OTHER FLOOD AREAS Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. OTHER AREAS Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible. ZONE X COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS OTHERWISE PROTECTED AREAS (OPAs) CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas. 1% annual chance floodplain boundary 0.2% annual chance floodplain boundary Floodway boundary Floodway boundary Zone D boundary ************* OBRS and OPA boundary Boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities. (EL 987) Base Flood Elevation value where uniform within elevation in feet* erican Vertical Datum of 1988 (NAVD 88) **A**-(23)--1000-meter Universal Transverse Mercator grid ticks, zone 11 5000-foot grid ticks: Neveda State Plane coordinate system, east zone (FIPSZONE 2701), Transverse Mercator 6000000 M River Mile EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP September 4, 2013 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL For community map revision history prior to countywide mapping, refer to the Communit Map History table located in the Rood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620. MAP SCALE 1" = 500' 1000 FEET PANEL 6003E FIRM FLOOD INSURANCE RATE MAP ELKO COUNTY, NEVADA AND INCORPORATED AREAS INSURANCE PANEL 6003 OF 8425 (SEE MAP INDEX FOR FIRM PANEL LAYOUT) COMMUNITY NUMBER PANEL SUFFIX 320027 6003 E 320009 6003 E 000

MAP NUMBER 32007C6003E EFFECTIVE DATE SEPTEMBER 4, 2013

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NGS Information Services NOAA, NNGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

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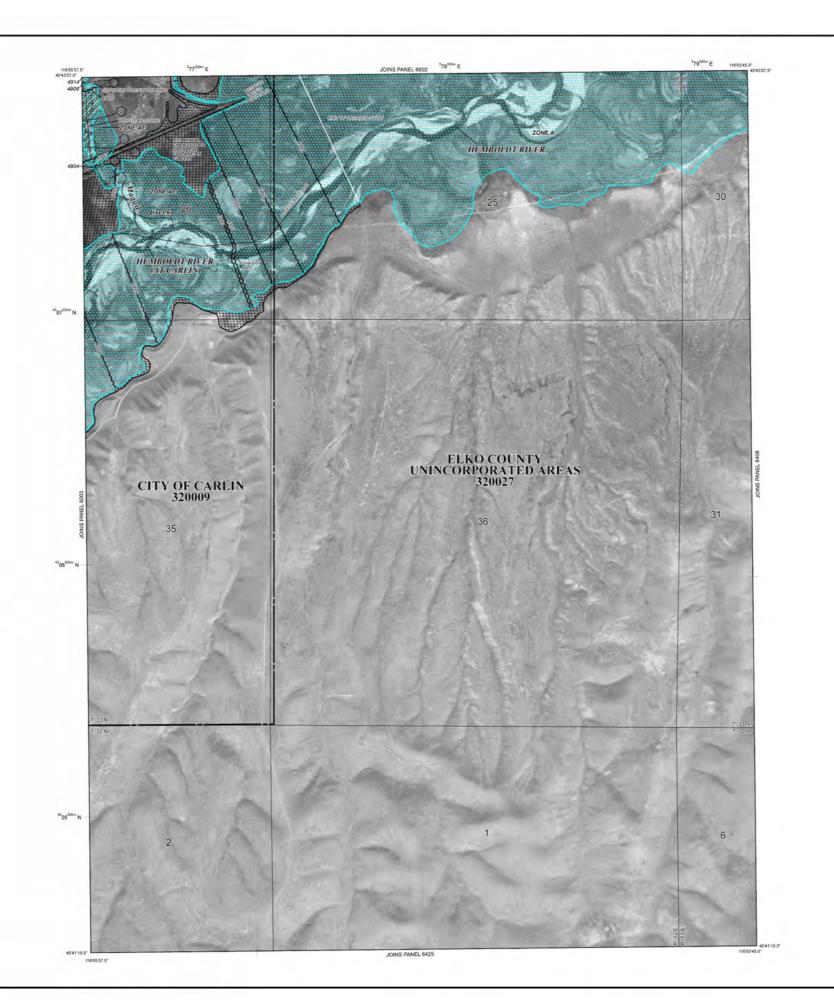
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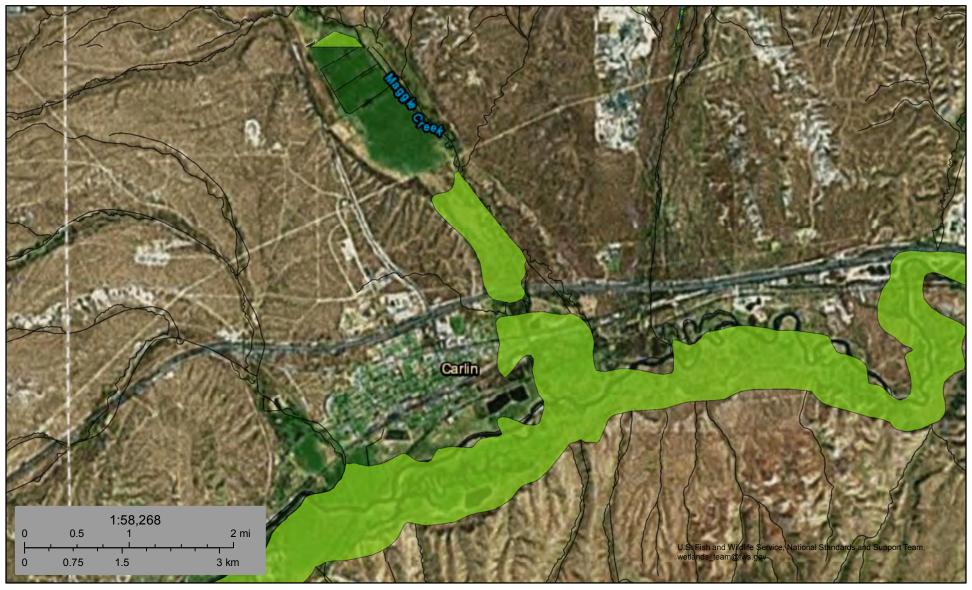
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City of Carlin Sewer and Water Improveme



December 15, 2017

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



Pacific Southwest, Region 9

Serving: Arizona, California, Hawaii, Nevada, Pacific Islands, Tribal Nations

Ground Water

Ground Water Quick Finder

Ground Water Home Class V Wells Cesspools in Hawaii Onsite Sewage Treatment
Permits

Sole Source Aquifer Source Water Protection Tribal Water Protection
Underground Injection Wells

Sole Source Aquifer

The EPA's Sole Source Aquifer (SSA) Program was established under Section 1424(e) of the Safe Drinking Water Act (SDWA.) Since 1977, it has been used by communities to help prevent contamination of groundwater from federally-funded projects. It has increased public awareness of the vulnerability of groundwater resources. The SSA program allows for <u>EPA environmental review (PDF)</u> (1pg, 34K) of any project which is financially assisted by federal grants or federal loan guarantees. These projects are evaluated to determine whether they have the potential to contaminate a sole source aquifer.

In Region 9, nine sole source aquifers have been designated:





National Links

EPA Ground Water & Drinking Water Home

You will need Adobe Reader to view some of the files on this page. See <u>EPA's PDF page</u> to learn more about PDF, and for a link to the free Adobe Reader.

Maps

Click here for a national layer including all available coverage for Sole Source Aquifers (SSA) that can be used in Geographic Information Systems (GIS)

State	Sole Source Aquifer Name	Federal Reg. Cit	Publ. Date	Мар
AZ	Upper Santa Cruz & Avra Basin Aquifer	49 FR 2948	01/24/84	KMZ PDF (1 pg, 1.3M)
AZ	Bisbee-Naco Aquifer	53 FR 38337	09/30/88	<u>KMZ</u> <u>PDF</u> (1 pg, 175K)
CA	Fresno County Aquifer	44 FR 52751	09/10/79	<u>KMZ</u> <u>PDF</u> (1 pg, 1.3M)
CA	Santa Margarita Aquifer, Scotts Valley	50 FR 2023	01/14/85	<u>KMZ</u> <u>PDF</u> (1 pg, 434K)
CA	Campo/Cottonwood Creek	58 FR 31024	05/28/93	<u>KMZ</u> <u>PDF</u> (1 pg, 321K)
CA	Ocotillo-Coyote Wells Aquifer	61 FR 47752	09/10/96	<u>KMZ</u> <u>PDF</u> (1 pg, 337K)
GU	Northern Guam Aquifer System	43 FR 17867	04/26/78	<u>KMZ</u> <u>PDF</u> (1 pg, 400K)
НІ	Southern Oahu Basal Aquifer	52 FR 45496	11/30/87	<u>KMZ</u> <u>PDF</u> (1 pg, 716K)

HI Molokai Aquifer 59 FR 23063 04/20/93

PDF (1 pg, 146K)

A map of all nationally designated SSAs is also <u>available on the Source Water Protection Publications Database</u>.

For more information, please contact the Ground Water Office at 415-972-3971 or visit the national <u>EPA Sole Source Aquifer Program</u> site.

Outreach Documents

Sole Source Aquifer Fact Sheet (PDF) (1pg, 34K)

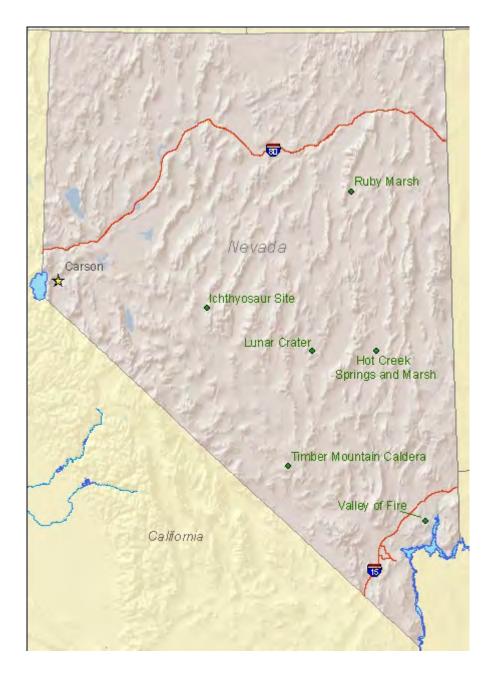
For Project Planners: What to submit for EPA review of proposed projects (PDF) (1pg, 34K)

Contact Information

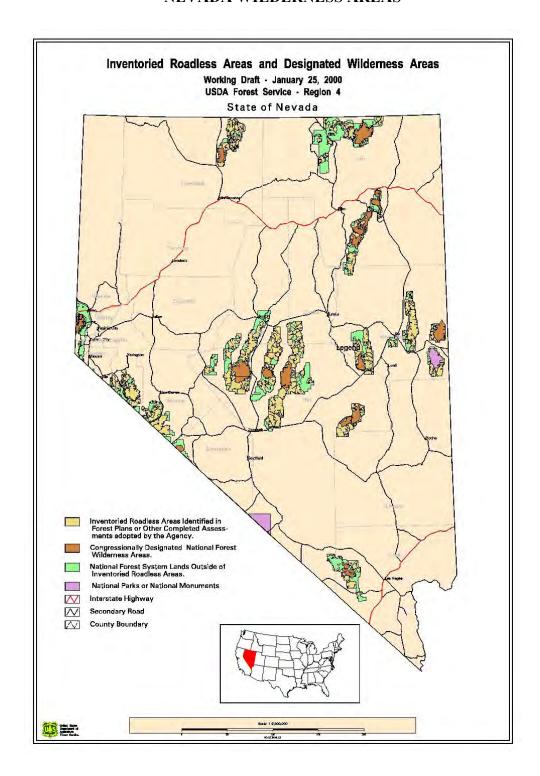
See the $\underline{\text{Sole Source Aquifer section}}$ of the Ground Water contacts page.

Last updated on 10/22/2015

NEVADA NATURAL LANDMARKS



NEVADA WILDERNESS AREAS



8.0 LIST OF PREPARERS

This environmental assessment was prepared by:

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United States Department of the Interior



FISH AND WILDLIFE SERVICE

Reno Fish And Wildlife Office 1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 Phone: (775) 861-6300 Fax: (775) 861-6301

http://www.fws.gov/reno/

In Reply Refer To: June 16, 2021

Consultation Code: 08ENVD00-2021-SLI-0419

Event Code: 08ENVD00-2021-E-01251

Project Name: Carlin Water and Sewer Improvements

Subject: List of threatened and endangered species that may occur in your proposed project

location or may be affected by your proposed project

To Whom It May Concern:

The attached species list indicates threatened, endangered, proposed, and candidate species and designated or proposed critical habitat that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act of 1973, as amended (ESA, 16 U.S.C. 1531 *et seq.*), for projects that are authorized, funded, or carried out by a Federal agency. Candidate species have no protection under the ESA but are included for consideration because they could be listed prior to the completion of your project. Consideration of these species during project planning may assist species conservation efforts and may prevent the need for future listing actions. For additional information regarding species that may be found in the proposed project area, visit http://www.fws.gov/nevada/es/ipac.html.

The purpose of the ESA is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the ESA and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or

designated or proposed critical habitat. Guidelines for preparing a Biological Assessment can be found at: http://www.fws.gov/midwest/endangered/section7/ba_guide.html.

If a Federal action agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species, and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this species list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally listed, proposed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the ESA, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally, as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation, for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the attached list.

The Nevada Fish and Wildlife Office (NFWO) no longer provides species of concern lists. Most of these species for which we have concern are also on the Animal and Plant At-Risk Tracking List for Nevada (At-Risk list) maintained by the State of Nevada's Natural Heritage Program (Heritage). Instead of maintaining our own list, we adopted Heritage's At-Risk list and are partnering with them to provide distribution data and information on the conservation needs for at-risk species to agencies or project proponents. The mission of Heritage is to continually evaluate the conservation priorities of native plants, animals, and their habitats, particularly those most vulnerable to extinction or in serious decline. In addition, in order to avoid future conflicts, we ask that you consider these at-risk species early in your project planning and explore management alternatives that provide for their long-term conservation.

For a list of at-risk species by county, visit Heritage's website (http://heritage.nv.gov). For a specific list of at-risk species that may occur in the project area, you can obtain a data request form from the website (http://heritage.nv.gov/get_data) or by contacting the Administrator of Heritage at 901 South Stewart Street, Suite 5002, Carson City, Nevada 89701-5245, (775) 684-2900. Please indicate on the form that your request is being obtained as part of your coordination with the Service under the ESA. During your project analysis, if you obtain new information or data for any Nevada sensitive species, we request that you provide the information to Heritage at the above address.

Furthermore, certain species of fish and wildlife are classified as protected by the State of Nevada (http://www.leg.state.nv.us/NAC/NAC-503.html). You must first obtain the appropriate license, permit, or written authorization from the Nevada Department of Wildlife (NDOW) to

take, or possess any parts of protected fish and wildlife species. Please visit http://www.ndow.org or contact NDOW in northern Nevada (775) 688-1500, in southern Nevada (702) 486-5127, or in eastern Nevada (775) 777-2300.

Please be aware that bald and golden eagles are protected under the Bald and Golden Eagle Protection Act (16 U.S.C. 668 *et seq.*), and projects affecting these species may require development of an eagle conservation plan

(http://www.fws.gov/windenergy projects should follow the Service's wind energy guidelines (http://www.fws.gov/windenergy/) for minimizing impacts to migratory birds and bats.

The Service's Pacific Southwest Region developed the *Interim Guidelines for the Development of a Project Specific Avian and Bat Protection Plan for Wind Energy Facilities* (Interim Guidelines). This document provides energy facility developers with a tool for assessing the risk of potential impacts to wildlife resources and delineates how best to design and operate a bird-and bat-friendly wind facility. These Interim Guidelines are available upon request from the NFWO. The intent of a Bird and Bat Conservation Strategy is to conserve wildlife resources while supporting project developers through: (1) establishing project development in an adaptive management framework; (2) identifying proper siting and project design strategies; (3) designing and implementing pre-construction surveys; (4) implementing appropriate conservation measures for each development phase; (5) designing and implementing appropriate post-construction monitoring strategies; (6) using post-construction studies to better understand the dynamics of mortality reduction (*e.g.*, changes in blade cut-in speed, assessments of blade "feathering" success, and studies on the effects of visual and acoustic deterrents) including efforts tied into Before-After/Control-Impact analysis; and (7) conducting a thorough risk assessment and validation leading to adjustments in management and mitigation actions.

The template and recommendations set forth in the Interim Guidelines were based upon the Avian Powerline Interaction Committee's Avian Protection Plan template (http://www.aplic.org/) developed for electric utilities and modified accordingly to address the unique concerns of wind energy facilities. These recommendations are also consistent with the Service's wind energy guidelines. We recommend contacting us as early as possible in the planning process to discuss the need and process for developing a site-specific Bird and Bat Conservation Strategy.

The Service has also developed guidance regarding wind power development in relation to prairie grouse leks (sage-grouse are included in this). This document can be found at: http://www.fws.gov/southwest/es/Oklahoma/documents/te_species/wind%20power/ prairie%20grouse%20lek%205%20mile%20public.pdf.

Migratory Birds are a Service Trust Resource. Based on the Service's conservation responsibilities and management authority for migratory birds under the Migratory Bird Treaty Act of 1918, as amended (MBTA; 16 U.S.C. 703 *et seq.*), we recommend that any land clearing or other surface disturbance associated with proposed actions within the project area be timed to avoid potential destruction of bird nests or young, or birds that breed in the area. Such destruction may be in violation of the MBTA. Under the MBTA, nests with eggs or young of migratory birds may not be harmed, nor may migratory birds be killed. Therefore, we recommend land clearing be conducted outside the avian breeding season. If this is not feasible,

we recommend a qualified biologist survey the area prior to land clearing. If nests are located, or if other evidence of nesting (*i.e.*, mated pairs, territorial defense, carrying nesting material, transporting food) is observed, a protective buffer (the size depending on the habitat requirements of the species) should be delineated and the entire area avoided to prevent destruction or disturbance to nests until they are no longer active.

Guidance for minimizing impacts to migratory birds for projects involving communications towers (*e.g.*, cellular, digital television, radio, and emergency broadcast) can be found at: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.htm; http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html.

If wetlands, springs, or streams are are known to occur in the project area or are present in the vicinity of the project area, we ask that you be aware of potential impacts project activities may have on these habitats. Discharge of fill material into wetlands or waters of the United States is regulated by the U.S. Army Corps of Engineers (ACOE) pursuant to section 404 of the Clean Water Act of 1972, as amended. We recommend you contact the ACOE's Regulatory Section regarding the possible need for a permit. For projects located in northern Nevada (Carson City, Churchill, Douglas, Elko, Esmeralda, Eureka, Humboldt, Lander, Lyon, Mineral, Pershing, Storey, and Washoe Counties) contact the Reno Regulatory Office at 300 Booth Street, Room 3060, Reno, Nevada 89509, (775) 784-5304; in southern Nevada (Clark, Lincoln, Nye, and White Pine Counties) contact the St. George Regulatory Office at 321 North Mall Drive, Suite L-101, St. George, Utah 84790-7314, (435) 986-3979; or in California along the eastern Sierra contact the Sacramento Regulatory Office at 650 Capitol Mall, Suite 5-200, Sacramento, California 95814, (916) 557-5250.

We appreciate your concern for threatened and endangered species. Please include the Consultation Tracking Number in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

The table below outlines lead FWS field offices by county and land ownership/project type. Please refer to this table when you are ready to coordinate (including requests for section 7 consultation) with the field office corresponding to your project, and send any documentation regarding your project to that corresponding office. Therefore, the lead FWS field office may not be the office listed above in the letterhead.

Lead FWS offices by County and Ownership/Program

County	Ownership/Program	Species	Office Lead*
Alameda	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Alameda	All ownerships but tidal/estuarine	All	SFWO
Alpine	Humboldt Toiyabe National Forest	All	RFWO

Alpine	Lake Tahoe Basin Management Unit	All	RFWO
Alpine	Stanislaus National Forest	All	SFWO
Alpine	El Dorado National Forest	All	SFWO
Colusa	Mendocino National Forest	All	AFWO
Colusa	Other	All	By jurisdiction (see map)
Contra Costa	Legal Delta (Excluding ECCHCP)	All	BDFWO
Contra Costa	Antioch Dunes NWR	All	BDFWO
Contra Costa	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Contra Costa	All ownerships but tidal/estuarine	All	SFWO
Del Norte	All	All	AFWO
El Dorado	El Dorado National Forest	All	SFWO
El Dorado	LakeTahoe Basin Management Unit		RFWO
Glenn	Mendocino National Forest	All	AFWO
Glenn	Other	All	By jurisdiction (see map)
Humboldt	All except Shasta Trinity National Forest	All	AFWO
Humboldt	Shasta Trinity National Forest	All	YFWO
Lake	Mendocino National Forest	All	AFWO
Lake	Other	All	By jurisdiction (see map)
Lassen	Modoc National Forest	All	KFWO
Lassen	Lassen National Forest	All	SFWO
Lassen	Toiyabe National Forest	All	RFWO
Lassen	BLM Surprise and Eagle Lake Resource Areas	All	RFWO

Lassen	BLM Alturas Resource Area	All	KFWO
Lassen	Lassen Volcanic National Park	All (includes Eagle Lake trout on all ownerships)	SFWO
Lassen	All other ownerships	All	By jurisdiction (see map)
Marin	Tidal wetlands/marsh adjacent to Bays	Salt marsh species, delta smelt	BDFWO
Marin	All ownerships but tidal/estuarine	All	SFWO
Mendocino	Russian River watershed	All	SFWO
Mendocino	All except Russian River watershed	All	AFWO
Modoc	Modoc National Forest	All	KFWO
Modoc	BLM Alturas Resource Area	All	KFWO
Modoc	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Modoc	BLM Surprise and Eagle Lake Resource Areas	All	RFWO
Modoc	All other ownerships	All	By jurisdiction (See map)
Mono	Inyo National Forest	All	RFWO
Mono	Humboldt Toiyabe National Forest	All	RFWO
	All ownerships but tidal/estuarine	All	SFWO
Napa			
Napa	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Nevada	Humboldt Toiyabe National Forest	All	RFWO
Nevada	All other ownerships	All	By jurisdiction (See map)

DI.	Lake Tahoe Basin Management Unit	All	RFWO
Placer			
Placer	All other ownerships	All	SFWO
Sacramento	Legal Delta	Delta Smelt	BDFWO
Sacramento	Other	All	By jurisdiction (see map)
San Francisco	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Francisco	All ownerships but tidal/estuarine	All	SFWO
San Mateo	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
San Mateo	All ownerships but tidal/estuarine	All	SFWO
San Joaquin	Legal Delta excluding San Joaquin HCP	All	BDFWO
San Joaquin	Other	All	SFWO
Santa Clara	Tidal wetlands/marsh adjacent to San Francisco Bay	Salt marsh species, delta smelt	BDFWO
Santa Clara	All ownerships but tidal/estuarine	All	SFWO
Shasta	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Shasta	Hat Creek Ranger District	All	SFWO
Shasta	Bureau of Reclamation (Central Valley Project)	All	BDFWO
Shasta	Whiskeytown National Recreation Area	All	YFWO

Shasta	BLM Alturas Resource Area	All	KFWO
Shasta	Caltrans	By jurisdiction	SFWO/AFWO
Shasta	Ahjumawi Lava Springs State Park	Shasta crayfish	SFWO
Shasta	All other ownerships	All	By jurisdiction (see map)
Shasta	Natural Resource Damage Assessment, all lands	All	SFWO/BDFWO
Sierra	Humboldt Toiyabe National Forest	All	RFWO
Sierra	All other ownerships	All	SFWO
Siskiyou	Klamath National Forest (except Ukonom District)	All	YFWO
Siskiyou	Six Rivers National Forest and Ukonom District	All	AFWO
Siskiyou	Shasta Trinity National Forest	All	YFWO
Siskiyou	Lassen National Forest	All	SFWO
Siskiyou	Modoc National Forest	All	KFWO
Siskiyou	Lava Beds National Volcanic Monument	All	KFWO
Siskiyou	BLM Alturas Resource Area	All	KFWO
Siskiyou	Klamath Basin National Wildlife Refuge Complex	All	KFWO
Siskiyou	All other ownerships	All	By jurisdiction (see map)
Solano	Suisun Marsh	All	BDFWO
Solano	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Solano	All ownerships but tidal/estuarine	All	SFWO
Solano	Other	All	By jurisdiction (see map)

Sonoma	Tidal wetlands/marsh adjacent to San Pablo Bay	Salt marsh species, delta smelt	BDFWO
Sonoma	All ownerships but tidal/estuarine	All	SFWO
Tehama	Mendocino National Forest	All	AFWO
Tehama	Shasta Trinity National Forest except Hat Creek Ranger District (administered by Lassen National Forest)	All	YFWO
Tehama	All other ownerships	All	By jurisdiction (see map)
Trinity	BLM	All	AFWO
Trinity	Six Rivers National Forest	All	AFWO
Trinity	Shasta Trinity National Forest	All	YFWO
Trinity	Mendocino National Forest	All	AFWO
Trinity	BIA (Tribal Trust Lands)	All	AFWO
Trinity	County Government	All	AFWO
Trinity	All other ownerships	All	By jurisdiction (See map)
Yolo	Yolo Bypass	All	BDFWO
Yolo	Other	All	By jurisdiction (see map)
All	FERC-ESA	All	By jurisdiction (see map)
All	FERC-ESA	Shasta crayfish	SFWO
All	FERC-Relicensing (non-ESA)	All	BDFWO

*Office Leads:

AFWO=Arcata Fish and Wildlife Office

BDFWO=Bay Delta Fish and Wildlife Office KFWO=Klamath Falls Fish and Wildlife Office RFWO=Reno Fish and Wildlife Office YFWO=Yreka Fish and Wildlife Office

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Migratory Birds
- Wetlands

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Reno Fish And Wildlife Office 1340 Financial Boulevard, Suite 234 Reno, NV 89502-7147 (775) 861-6300

Project Summary

Consultation Code: 08ENVD00-2021-SLI-0419 Event Code: 08ENVD00-2021-E-01251

Project Name: Carlin Water and Sewer Improvements

Project Type: WATER SUPPLY / DELIVERY

Project Description: Water and sewer pipeline replacement and waste water pond

rehabilitation.

Project Location:

Approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@40.71309995,-116.09664442948906,14z



Counties: Elko County, Nevada

Endangered Species Act Species

There is a total of 3 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Gray Wolf Canis lupus	Proposed
Population: Western Distinct Population Segment No critical habitat has been designated for this species.	Endangered
140 Critical habitat has been designated for this species.	

Fishes

NAME	STATUS
Lahontan Cutthroat Trout Oncorhynchus clarkii henshawi	Threatened
No critical habitat has been designated for this species.	
Species profile: https://ecos.fws.gov/ecp/species/3964	

Insects

AME Monarch Butterfly Dangus plexippus	STATUS
Monarch Butterfly <i>Danaus plexippus</i>	Candidate

Monarch Butterfly *Danaus plexippus*

No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

USFWS National Wildlife Refuge Lands And Fish Hatcheries

Any activity proposed on lands managed by the <u>National Wildlife Refuge</u> system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

DDEEDING

1

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The Bald and Golden Eagle Protection Act of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS
Birds of Conservation Concern (BCC) list or warrant special attention in your project location.

To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data
mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	SEASON
Bald Eagle <i>Haliaeetus leucocephalus</i> This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Black Rosy-finch <i>Leucosticte atrata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9460	Breeds Jun 15 to Aug 31

NAME	BREEDING SEASON
Clark's Grebe <i>Aechmophorus clarkii</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Jan 1 to Dec 31
Golden Eagle Aquila chrysaetos This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/1680	Breeds Dec 1 to Aug 31
Olive-sided Flycatcher <i>Contopus cooperi</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3914	Breeds May 20 to Aug 31
Sage Thrasher <i>Oreoscoptes montanus</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9433	Breeds Apr 15 to Aug 10
Willet <i>Tringa semipalmata</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 20 to Aug 5
Willow Flycatcher <i>Empidonax traillii</i> This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/3482	Breeds May 20 to Aug 31

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee

was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (**•**)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

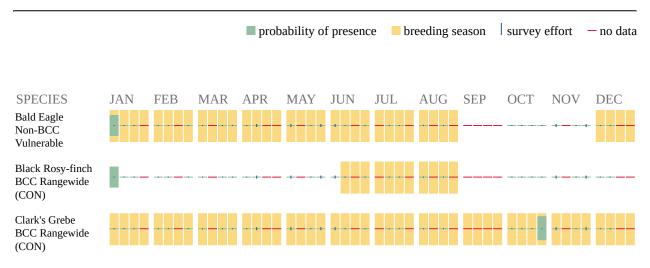
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Additional information can be found using the following links:

- Birds of Conservation Concern http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php
- Measures for avoiding and minimizing impacts to birds http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php
- Nationwide conservation measures for birds http://www.fws.gov/migratorybirds/pdf/ management/nationwidestandardconservationmeasures.pdf

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

Nationwide Conservation Measures describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. Additional measures or permits may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey, banding, and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as

occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>AKN Phenology Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of survey, banding, and citizen science datasets .

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: The Cornell Lab of Ornithology All About Birds Bird Guide, or (if you are unsuccessful in locating the bird of interest there), the Cornell Lab of Ornithology Neotropical Birds guide. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the Eagle Act requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can

implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the Northeast Ocean Data Portal. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

Wetlands

Impacts to <u>NWI wetlands</u> and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local <u>U.S. Army Corps of Engineers District</u>.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

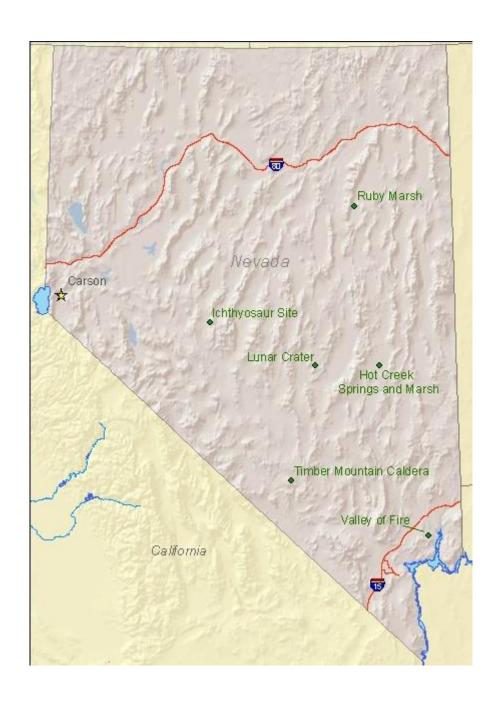
THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

8.0 REFERENCES

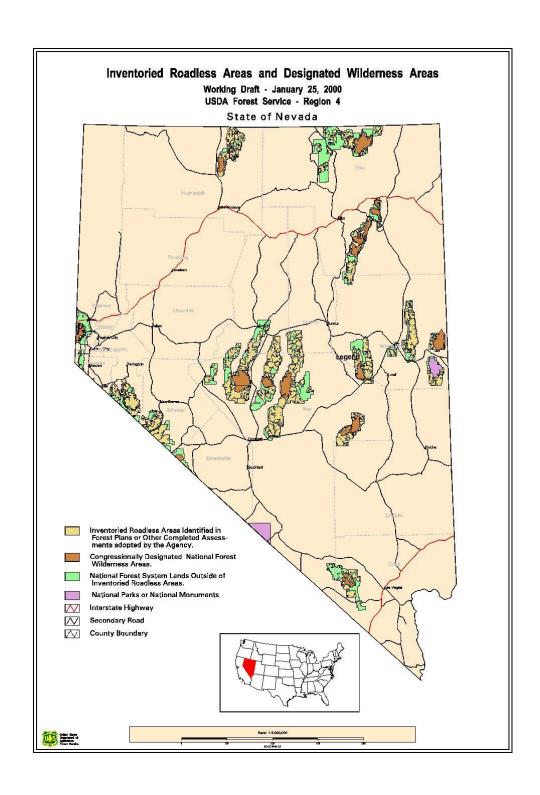
This section includes the following exhibits:

- Map of the proposed project elements
- FEMA maps
- Wetlands maps
- EPA Sole Source Aquifer Fact Sheet
- Nevada Natural Landmarks
- Nevada Wilderness Areas

NEVADA NATURAL LANDMARKS



NEVADA WILDERNESS AREAS



This environmental assessment was prepared by:

Danny Sommers

Project Manager,

Farr West Engineering

5510 Longley Lane

Reno, NV 89511

Email: danny@farrwestengineering.com

Phone: 775.851.4788 Fax: 775.851.0766

Jessica Dugan

Environmental and Regulatory Specialist

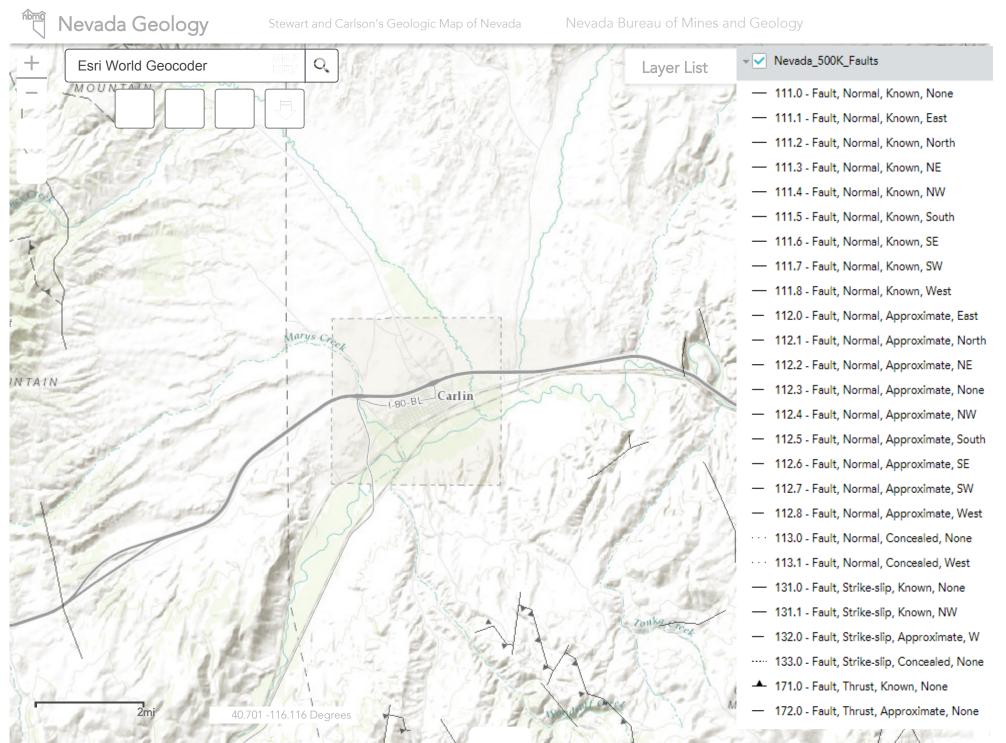
Farr West Engineering

5510 Longley Lane

Reno, NV 89511

Email: JDugan@farrwestengineering.com

Phone: 775.997.7495 Fax: 775.851.0766 11/8/2017 Carlin Area Faults



Nevada Geology Stewart and Carlson's Geologic Map of Nevada Nevada Bureau of Mines and Geology Esri World Geocoder Q Ts3 Ts3 -1-80-BL Carlin Qa Ts3 Ts3 40.696 -116.080 Degrees Qa Nevada_500K_Geologic_Unit Nevada_500k_Anno Nevada_500k_Contacts Nevada_500K_Faults Options Filter by Map Extent Clear Selection Refresh Zoom to **OBJECTID** Unit Type Lithology Geologic History Specification **Unit Symbol** Name Description Ts3 2729 **TUFF ACEOUS TUFF ACEOUS** Lithostratigraphic Late Eocene to Late Unknown Igneous rock **SEDIMENTARY SEDIMENTARY** Unit Miocene **ROCKS-Locally ROCKS** includes minor amounts of tuff Qa ALL UVIAL DEPOSITS Locally includes Lithostratigraphic Unit Unconsolidated 2855 Quaternary Unknown beach and sand dune deposits.

1 features 0 selected

APPENDIX B

EFFLUENT WATER RIGHTS
MONITORING WELL LOGS

City of Carlin

			1	al_		ter								
	Remarks		Effluent discharge right	Effluent 30.19 Acres Total		Mining Interpretive Center								
Change Ann	Filed													
Chang	Due Dates PBU		N/A	Filed	4/11/2018	6/24/2018 6/24/2018		Filed	4/11/2018	6/20/2018	Filed	4/11/2018	4/11/2018	4/11/2018
Due Dates	TCD County POC		Filed	Filed	4/11/2018 4/11/2018	6/24/2018		Filed	Filed	Filed	Filed	Filed	Filed	4/11/2018 4/11/2018
	County		Elko	Elko	Elko	Elko		Elko	Elko	Elko	Elko	Elko	Elko	Elko
	TCD													
Annual Duty	(AFA)		SE SW 26 33N 52E 1.500 1085.955	120.76	735.308	4.603		35.2			557.457	644.346	405.432	735.308
Div Pate	(CFS)	. 051	1.500	1.500	2.000	0.100	. 052	0.144	1.000	3.000	0.770	52E 0.890	52E 0.560	2.000
Well POD POD POD POD POD Reference	QQ	Maggie Creek Area Basin No. 051	52E	26 33N 52E 1.500	52E	52E	Mary's Creek Area Basin No. 052	33N 52E 0.144	52E	52E	52E		52E	52E
noa	Twn	rea Ba	33N	33N	33N	33N	rea Ba	33N	33N	33N	33N	33N	33N	33N
uoa	Sec	reek A	56		23	16	reek A	28	28	28	28	27	27	27
מטמ	Qtr	ıggie C	MS	SW	MS	$_{ m SE}$	ıry's C	SE	SE	SE	SE	SW	NW	SE
חסם	90	M	SE	SE	MS	SE	M	MS	MS	SW	SW	SE	NE NE	SE
Well													30646	
uOd	Designation							CER 15550 12/19/1986 SPR MUN Arthur Spring	MUN Arthur Spring	MUN Arthur Spring	S.P. Spring			
Type	or Use		STO	IRR	MUN	MUN		MUN	MUN	MUN	MUN	MUN	MUN	MUN
	Source		EFF	EFF	ÐΩ	50		SPR	SPR	SPR	SPR	90	NOM DO	NOM DO
Priority			3/18/1977	3/18/1977	4/4/1988	1/5/2004		12/19/1986	7/25/1961	3/19/1956	1/1/1870	9/7/1934	9/9/1933	4/4/1988
Cort	No.			14197				15550			15551			
	Status		PER	CER	PER	PER		CER	PER	PER	CER	PER	PER	PER
	Basin App. No. Status		31193	31193-S01 CER 14197 3/18/1977	51981	70714		50434	50437	68232	50439	50436	52266	57712
	Basin		51	51	51	51		25	52	52	52	52	52	52

All water right permits filed in the name of "City of Carlin" and shown as "Carlin - City" on NDWR database TCD of Permit Nos. 50436, 51981, 52266, 57712 = 342.07 MGA (1049.774 AFA). This TCD spreads over both hydrographic basins.

WHITE—DIVISION OF WATER RESOURCES CANARY—CLIENT'S COPY PINK—WELL DRILLER'S COPY

STATE OF NEVADA

DIVISION OF WATER RESOURCES

Log No. 32516	
Permit No.	
Basin <u> </u>	

WELL	DRILLER'S	REPORT

\	T OR TYPE							form in its entirety
, 1. O	WNER C	741	of o	Car	din		:	NOTICE OF INTENT NO. 27.38
MAIL	ING ADDRI	ESS.J =	P.9	13o	y 7	785		NOTICE OF INTENT NO. S. ADDRESS AT WELL LOCATION C.C. 3 Sewer Treatment Facilities (NS R. 52 E E IKO County
2. Lo	DCATION	VZ	/4 V	1.1/4 Se	e3.	5 т	33	OSR 52 E FIKO COUNTY
PERM	IIT NO A	LO -	ZC.	rees		Parcel No.		Subdivision Name
3.			F WORK			4,		
٥.	New Well			ndition			estic [PROPOSED USE 5. TYPE WELL ☐ Irrigation ☐ Test ☐ Cable ☐ Rotary ☐
	Deepen		Other			Mun	icipal	- · · · · · · · · · · · · · · · · · · ·
6.		I	ITHOLO	GIC LO	G	I.		8. WELL CONSTRUCTION
	Mater	rial		Water Strata	From	То	Thick-	Diameter 2 inches Total depth 195 feet
$\overline{}$	Taiser	3/4	7	Stratu	0	65	(E)	inches
SiH	77	L GR			62	14	7 <u>5</u>	Casing record 2" TVC
Si'}	Pur SAN	AD.			14	195	52	Weight per foot Thickness 5ch 40
	<u>U</u>							Diameter From To
								2"Brukaches O feet 41/2 feet 2"Rest inches 41/2 feet 141/2 feet
							-	2" First inches 4/2 feet 14/2 feet
						 	-	2"Bissanches 141/2 feet 191/2 feet
							-	inches feet feet feet
		44				1		inches feet feet
								Surface seal: Yes No No Type Coment & Buto
		写:					ļ	Depth of seal
		29				_		Gravel packed: Yes ➢ No □
								Gravel packed from
						 		-
							<u></u>	Perforations: Type perforation PVC Sch 40 S/o+
		- 3 -	4					Size perforation 0.010 /c
			SI					Size perforation. O. C.1O /r From From feet to 14 1/2 feet
								Fromfeet tofeet
				-				From feet to feet
								Fromfeet tofeet
	***					 		From feet to feet
					***			9. WATER LEVEL
								Static water level
								Flow
	. D	000	mb,		20)	. 1990	Water temperature°F Quality
			vn ez	C.Y			, 19.Z. <u>V.</u> , 19	10. DRILLER'S CERTIFICATION
Date C	ompleted						, 19	This well was drilled under-my supervision and the report is true to the
7.		W	ELL TE	ST DAT	Ά			best of mix knowledge. \ \ \.\.
Pı	ımp RPM	G	P.M.	Draw I	Down	After Hours	Pump	Name
	p			Diawi	30411	Atter moure	, cump	Address 655 Dales W KNO NEL 850
							-	Contractor
								Nevada contractor's license number issued by the State Contractor's Board
								Nevada contractor's driller's number
				<u></u>				issued by the Division of Water Resources
			BAILER	TEST				Nevada driller's license number issued by the
G.P.M	· · · · · · · · · · · · · · · · · · ·		Draw	down	fo	et	hours	Division of Water Resources, the on-site driller.
								Signed By Miller performing actual drilling on site or contractor
G.P.M		·····	Draw	down	fc	eet	hours	Date 11 (C)

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STATE OF NEVADA DIVISION OF WATER RESOURCES

WELL DRILLER'S REPORT

	Please	complete	this	form	in	its	entirety
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and the state of t
OFFICE USE ONLY Log No. 32920
Permit No

PRINT OR TYPE	ONLY	Pl	ease complete this	form in its entirety NOTICE OF INTENT NO. 22125
				ADDRESS AT WELL LOCATION ON A CONTROL TREATMENT FACILILIES,
2 LOCATION 5	in NEVI	11/17 14 Sec. 26	т 3 3	(5/S R 5 2 E County
PERMIT NO	Sued by Water Reso	Gurces	Parcel No.	Subdivision Name
	TYPE OF WOR	K ondition \square	4.	PROPOSED USE 5. TYPE WELL ☐ Irrigation ☐ Test ☐ Cable ☐ Rotary ☐
6.	LITHOL	OGIC LOG		8 WELL CONSTRUCTION /
	SILT Z GRAVEL Z SAND RAVEL	Water Strata From O	To Thickness 2.6.7 4.3 12.5 5.6 13.5 1.0 14.7 1.2 19.5 4.8	Casing record Weight per foot. Diameter From To To To Foot From To From To From To From From
				From feet to feet From feet to feet
Date started De C	ember	20	1987	9. Static water level
Date completed	<u>//</u>		, 19. //	10. DRILLER'S CERTIFICATION This well was drilled under my supervision and the report is true to the
7.	WELL T	EST DATA		best de my khowledge
Pump RPM	G.P.M.	Draw Down	After Hours Pump	Address 635 Delication Contractor
				Nevada contractor's license number issued by the State Contractor's Board
G.P.M	Dra	w downfo	ethours	By driller performing actual drilling on site or contractor

STATE OF NEVADA DIVISION OF WATER RESOURCES

Log No. 329	e onty Z
Permit No.	
Basin 4-44	j
· · · · · · · · · · · · · · · · · · ·	3

(Rcv. 11-85)

WELL DRILLER'S REPORT

PRINT OR TYPE	ONLY		P	lease com	plete this	form in its entirety
1 OWNER C.	th of	Car	lin			ADDRESS AT WELL LOCATION OWZ
MAILING ADDRE	ss. To	Bex	76.	5		ADDRESS AT WELL LOCATION OWZ Server Treatment Facilities
2. LOCATION	1 V 6 1/4 N	.£\/4 St	ee5 ⊋ .∑	≥T		IND R. 5 Z. E. County
PERMIT NO	VD - 20 Ksued by Water Reso	ources		Parcel No.		Subdivision Name
3.	TYPE OF WOR	K.	•	4.		PROPOSED USE 5. TYPE WELL
New Well	⊠ Red	condition		Don	nestic [Irrigation □ Test □ Cable □ Rotary □
Deepen	☐ Oth	ner		Mur	nicipal 2	I Industrial □ Stock □ Other □
6.	LITHOL	OGIC LO)G			8 WELL CONSTRUCTION .
Mater	rial	Water Strata	From	То	Thick- ness	Diameter inches Total depth 2 9 feet
Sandy	Garage	3	0	35	35	
	SAND		32	75	4	Casing record 2" PVC
	SAND		75	19	115	Weight per foot
3174	<u></u>			1 * * *	T	Diameter From To
			<u> </u>		****	2" Blankinches O feet 4 feet
						2" Part inches 4 feet 14 feet
				1	1	2" Blankinches 14 feet 19 feet
			<u> </u>			inches feet feet
		1				inches feet feet
		 	†			
		1		1		
	٠	 			-	Surface seal: Yes No D Type Concert E Denton
						Dcpth of seal 3 feet
	¥==		 	- 	+	Gravel packed: Yes 2' No Gravel packed from feet to 19 feet
	<u> </u>					Gravel packed from feet to feet
	53		 			-
	5					Perforations: Type perforation PVC Schedule 40 Slot Size perforation 0.010 From feet to feet
		-	 			Type perioration.
	8 =		<u> </u>	+	 	Size perioration C.C.
	2)		1		 	Fromfeet tofeet
	····		<u> </u>			Fromfeet tofeet
			-	 		From feet to feet
				 	-	From feet to feet
					<u> </u>	Fromfeet tofeet
						9. WATER LEVEL
						Static water levelfeet below land surface
						Flow
1	0 0 0 e e b	I	9	<u> </u>	1987	Water temperature°F Quality
Date started D	u	20 1	 ¥		, 19 C2/. 19. .//	10. DRILLER'S CERTIFICATION
Date completed					, 19	This well was drilled under my supervision and the report is true to the
7.	WELL 7	TEST DA	TA			best of my knowledge.
Pump RPM	G.P.M.	Draw	Down	After Hou	irs Pumn	Name Companyor Cotto New Section
Tump KI W	0.1.14.	Dia.				Address 65 Day Contractor
9889						Nevada contractor's license number issued by the State Contractor's Board
				-		Nevada contractor's driller's number issued by the Division of Water Resources
	BAIL	ER TEST				Nevada driller's license number issued by the Division of Water Resources, the on-site driller
G.P.M				feet		
G.P.M	Di	raw down.	1	feet	hours	Signed. By differ performing actual drilling on site or contractor
G.P.M	Dı	raw down.	1	fect	hours	Date

STATE OF NEVADA DIVISION OF WATER RESOURCES

OFFICE	USE ONEX
Log No. 329	22
Permit No.	
Basin 4 - 49	
	4

WELL DRILLER'S REPORT

PRINT OR TYPI				-		form in its entirety NOTICE OF INTENT NO.	SA
1. OWNER C	ity of Ess Pol	Carl	in			Sewer Treatment Facilitie	
2. LOCATION PERMIT NO.	IV 65 44 N	<i>L</i>	, 3 5	Т	3. <i>3</i>	N/8 R 52 E ELKO	County
PERMIT NO.ZM	Issued by Water Reso	ources	Pa	rcei No.		Subdivision Name	
3. New Well Deepen	TYPE OF WOR	condition		4. Dome Munic	estic 🗆		Rotary
6.	LITHOL	OGIC LOG				8. WELL CONSTRUCTION	`
Mate		Water Strata	From	То	Thick- ness	Diameter 2 inches Total depth 19 inches	feet
Claudi	SILT		0	10	4	Casing record	
	Granel	1	0	14	14	Weight per foot	h 40
Scudija	CLAY		14	19	.5	Diameter From To 2" Blass Linches Geet	feet feet feet
						inches feet inches feet	feet
						Surface seal: Yes No Type Censer	
1	62					Depth of seal 3 Gravel packed: Yes No Gravel packed from 5 Gravel packed from 5	feet
	90 JAN					Perforations: Type perforation PVC Schedule 41 Size perforation 0.010	
	w r					From feet to From feet to	
						Fromfeet to	
						From feet to.	
						Fromfeet to	
						9. WATER LEVEL Static water level 7.5 meter level feet below lan	d surface
						Flow	
Date started.	ecemb	es 1		,	19 69		
Date completed	!!			,	19	10. DRILLER'S CERTIFICATION This well was drilled trader may supervision and the report is t	rue to the
7.	WELL T	EST DATA				best of my knowledge.	. /
Pump RPM	G.P.M.	Draw Dov	vn A	fter Hours	Pump	Address 635 Balle Albardon, CENO A	(EU) 879
						Nevada contractor's license number issued by the State Contractor's Board	*******
					-	Nevada contractor's driller's number issued by the Division of Water Resources	
G DM		R TEST	£ 4		have	Nevada driller's license number is need by the Division of Water Resources, the on-site driller	3
G.P.M G.P.M		ıw down ıw down				Signed. Signed driller performing actual drilling on site or contracte	or
G.P.M						Date	

WHITE—DIVISION OF WATER RESOURCES CANARY—CLIENT'S COPY PINK—WELL DRILLER'S COPY

STATE OF NEVADA DIVISION OF WATER RESOURCES

Log No. 32925	
Permit No	· :
Basin 4-5	

WELL DRILLE	K'S	KEP	OKI
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PRINT OR TYP						NOTICE OF INTENT NO. 2733
1. OWNER C	Ty of C	-ARI Boje	iN 785			ADDRESS AT WELL LOCATION ON THE STATE OF THE
CARLIN	o NIV.		76		<u></u>	NSR 52 E ZKC County
2. LOCATION 5 W = 26 T 33 PERMIT NO. (40)					(N/28 R. 3.2— E County	
Issued by V			Parcel No.			Subdivision Name
3.	TYPE O			4.	-	PROPOSED USE 5. TYPE WELL
New Well			□ Domestic □		estic 🗆	
Deepen	☐ Otl	ner	(I)	Muni	icipal 🗆	Industrial Stock Other Other
6.	LITHOL	OGIC L	OG			8. WELL CONSTRUCTION
		Water	T	T-	Thick-	Diameter 2 inches Total depth 19,5 feet
Mar	~=inl	Strata	From	То	ness	inches
	SILT		0	6.6	6.6	Casing record
SAND End	CARNO	ļ	6.6	11.5	1,2	Casing record
SAND ENE	C-KHUEL	-	7.8 15.6	15.6	7.8	Weight per foot Thickness Sch. 4.5
SALTY SAL	· <i>D</i>	1	/5, c_	17.5		Diameter 2 BIANK inches C feet 2'''' 1 From
						7'''/7' inches $4/2$ feet $14/2$ feet
	μij.			1		2" BI ANK inches
	41					inchesfeetfeet
						feet
	<u> </u>					inches feet feet
	Ν	<u> </u>		-		inches feet feet Surface seal: Yes ✓ No □ Type Comput (Benfert) Depth of scal 3' feet Gravel packed: Yes ✓ No □
	= = = = = = = = = = = = = = = = = = = =					Depth of scal feet
						Gravel packed: Yes 🗸 No 🗆 Gravel packed from 3 feet to 19/2 feet
	8 =			 		Gravel packed from
****	<u> </u>	 				Perforations:
						Type perforation / VC 364, AC 326/
						Size perforation C. C/C From 4/2 feet to 14/2 feet
						From 4/2 feet to 14/2 feet
		ļ		-	ļ	From feet to feet
				1	1	From feet to feet
			-			From feet to feet
			1	1		From feet to feet
						9. WATER LEVEL
	***					Static water levelfeet below land surface
				<u> </u>		FlowP.S.I.
/ 2					1989	Water temperature°F Quality
Date started $\frac{12-18}{1989}$ Date completed $\frac{12-19}{1989}$					10. DR'' CERTIFICATION	
Date completed	(2-11				., 19. <i>Q.Z</i>	This well was drilled under my supervision and the report is true to the
7. WELL TEST DATA					best of my knowledge.	
Pump RPM	G.P.M.	Drav	v Down	After Hour	rs Pump	Address 635 Walk Michael Reno New 8550
						Nevada contractor's license number
						issued by the State Contractor's Board Nevada contractor's driller's number
)						issued by the Division of Water Resources
		ER TES				Nevada driller' Nicense number issued by the Division of Water Resolutes, the on-site driller.
G.P.M	••••			eet		Signed By driller performing actual drilling on site or contractor
G.P.M						Date \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
U.F.IVI	D	iaw uUWI				1

APPENDIX C

NDEP DOCUMENTS

PERMIT No. NEV93001

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

AUTHORIZATION TO DISCHARGE

In compliance with the provisions Chapter 445A of the Nevada Revised Statutes (NRS), the Permittee.

> City of Carlin P.O. Box 787 Carlin, Elko County, Nevada 89822

is authorized to discharge from the

City of Carlin Wastewater Treatment Facility 101 South Eighth Street Carlin, Elko County, Nevada 89822

Latitude:

40° 42' 50" North

Longitude:

116° 05' 40" West

Township 33 North, Range 52 East, Section 26

to receiving waters named

Groundwaters of the State of Nevada by percolation

in accordance with effluent limitations, monitoring requirements, and other conditions set forth in Part I, II, and III hereof.

This permit and the authorization to discharge shall expire April 21st, 2015.

Signed this 215 day of ____

Kristen M Rose

Environmental Scientist

Bureau of Water Pollution Control



PART I

I.A. EFFLUENT LIMITATIONS, MONITORING, AND CONDITIONS

There shall be no discharge from the facility property except as authorized by this permit; there shall be no discharge or release of pollutants or toxic contaminants from the facility to the ground surface or waters of the State; and there shall be no discharge of substances that would cause a violation of water quality standards of the State of Nevada.

I.A.1 During the period beginning on the effective date of this permit, and lasting until the permit expires, the Permittee is authorized to discharge from the secondary treatment pond to:

Outfall 001: Storage Reservoir; and

Outfall 002: Irrigation fields: East, Central and West (during the growing season).

Excess effluent which cannot be stored in the reservoir for irrigation use may be discharged to:

Outfall 003: Rapid Infiltration Basins: East and West;

Outfall 004: Pasture Irrigation Areas: East and West; and/or

Outfall 005: South Sand Field (emergency irrigation).

Samples taken in compliance with the monitoring requirements specified below shall be taken at the following locations: at the influent pump station; and effluent prior to reuse or disposal. If effluent analysis results from Lagoon Cell #1 exceed any discharge limitations, the Permittee shall promptly resample (within two (2) days of receiving results from the lab) at Lagoon Cell #2 to demonstrate compliance. The discharge shall be limited and monitored by the Permittee as specified below.

Table 1.1

PARAMETER	DISCHARGI	ELIMITATIONS	MON	ITORING REQUIREM	ENTS
	30 - day Average	Daily Maximum	Sample Locations	Measurement Frequency	Sample Type
	0.50 MGD	0.90 MGD	Influent	Continuous	Meter
Flow	M&R 001, 003	M&R 001, 003	Effluent to storage & RIB's	Continuous	Meter
	M&R 002, 004, 005	M&R 002, 004, 005	Effluent to Irrigation	During Irrigation	Meter or Calculate
	Quarterly Average	Daily Maximum	Sample Locations	Measurement Frequency	Sample Type
BOD (inhibited)	M&R	M&R	Influent	Monthly	Composite
DOD (minuseu)	30 mg/l	45 mg/l	Effluent	Monthly	Composite
Total Suspended Solids	M&R	90 mg/l	Effluent	Monthly	Composite
	N	/&R	influent	Monthly	Discrete
PH		s than 6.0 SU nor han 9.0 SU	Effluent	Monthly	Discrete
Total Nitrogen as N	M&R	M&R	Effluent	Quarterly	Composite
Annual Nitrogen Applied (pounds/acre/year) 1	N	1&R	Irrigation	Annual	Calculation (cumulative)

The Annual nitrogen load is determined based on the nitrogen budget described in the EMP. The total annual nitrogen applied (lbs/acre/year) shall not be greater than the total annual nitrogen uptake (lbs/acre/year). Calculations and monitoring data shall use the total nitrogen in the applied wastewater (monitored by the treatment facility), total nitrogen from fertilizer applications, nitrogen uptake by crops or vegetation, evapotranspiration rate, precipitation rate, and fraction of applied nitrogen removed by denitrification and volatilization.

The allowable value (pursuant to the approved EMP) must be reported in the 4th quarter DMR along with the actual applied value to directly evaluate for compliance.

MGD: million g mg/L: milligrar

as N:

M&R:

million gallons per day milligrams per liter

As nitrogen Monitor & Report BOD

Biochemical oxygen demand (inhibited refers to carbonaceous)

SU: Standard Units

EMP: Effluent Ma

Effluent Management Plan

TABLE 1.2

PARAMETER	LIMITATIONS	SAMPLE LOCATION	SAMPLE FREQUENC Y	SAMPLE TYPE
Depth to Groundwater (feet)	Monitor & Report	Each Well	Quarterly	Field Measurement
Groundwater Elevation (feet above msl)	Monitor & Report	Each Well	Quarterly	Calculate
Total Nitrogen as N (mg/L)	10	Each Well	Quarterly	Discrete
Nitrate as N (mg/L)	Monitory & Report	Each Well	Quarterly	Discrete
Chlorides (mg/L)	Monitor & Report	Each Well	Quarterly	Discrete
Total Dissolved Solids (mg/L)	Monitor & Report	Each Well	Quarterly	Discrete

msl: mean sea level mg/L: milligram per liter as N: as Nitrogen

- I.A.2 Schedule of Compliance: The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance. The Permittee shall implement and/or execute the following scheduled compliance requirements:
 - a. Upon issuance of the permit, the Permittee shall achieve compliance with all discharge limitations; and,
 - b. Within 45 days of the permit issue date (April 21, 2010), the Permittee shall submit an updated Operations and Maintenance (O&M) Manual prepared in accordance with guidance document WTS-2: Minimum Information Required for an O&M Manual. An Effluent Management Plan (EMP), which shall also be updated in accordance with WTS-1B Guidance Criteria for Preparing an Effluent Management Plan.

c. If no updates are needed for either the O&M Manual and/or the EMP, then state that in writing within 30 days of the permit issue date (April 21, 2010):

Nevada Division of Environmental Protection Attn: Compliance Coordinator Bureau of Water Pollution Control 901 S. Stewart St, Suite 4001 Carson City, Nevada 89701

- **1.A.3** Groundwater Monitoring: Ground Water Monitoring Wells MW-1 through MW-5 shall be sampled and analyzed as detailed in Table I.2. Reporting shall be performed in accordance with permit section I.B.2.
 - Groundwater monitoring and data rendering activities shall be conducted using monitoring protocols approved by the Nevada Division of Environmental Protection – Bureau of Water Pollution Control (Division).
 - Groundwater monitoring wells shall be conspicuously labeled, capped to prevent migration of surface contaminants to the groundwater, and locked to restrict access.
 - c. The Permittee shall monitor all new and existing groundwater monitoring wells for the following parameters:
- If the Total Nitrogen as N levels increase to 7.0 mg/L an alternate method of disposal, shall be selected. If the increase is due to irrigation reuse, the Effluent Management Plan (EMP) shall be revised to provide management practices which increase the nitrogen uptake by vegetation and/or adjust other nitrogen sources such as fertilizer application rates. If the Total Nitrogen as N levels increase to 9.0 mg/L construction of the approved alternate disposal site shall begin. The Permittee shall take all corrective action necessary to ensure that there is no further degradation of groundwater. If the Total Nitrogen as N levels increase to 10.0 mg/L the discharge to groundwater must cease.
- I.A.5 There shall be no objectionable odors from the collection system, treatment facility or disposal area.
- **I.A.6** There shall be no discharge of floating solids or visible foam in other than trace amounts.
- **I.A.7** Facility operations shall not cause or contribute to the propagation of pests or vector nuisances. Weed and general pond berm maintenance shall be performed on an annual basis, at a minimum, and reported in accordance with section I.B.2.
- I.A.8 The Permittee shall provide a copy of a brief, but complete and understandable document describing the possible hazards and proper hygiene of working with and around reclaimed water to potentially exposed personnel or persons using reclaimed water. The document shall be printed in relevant languages.
- 1.A.9 All storage ponds and RIBs shall have staff gauges, or another Division-approved means of monitoring water levels. Readings shall be performed as necessary to maintain the design freeboard. A log of recorded readings and impoundment inspections shall be retained by the Permittee in accordance with condition I.A.12.

- 1.A.10 Collection, treatment, and/or disposal facilities shall be constructed in conformance with plans approved by the Division. All plans must be approved by the Division prior to the start of construction and must be stamped by a Professional Engineer registered in the State of Nevada. All changes to any plans approved by the Division must be stamped by a Nevada Professional Engineer and re-approved by the Division prior to implementation.
- **i.A.11** The total nitrogen applied to crop and pasture fields (pounds per acre per year) shall not exceed the maximum yearly nitrogen application rate calculated in the EMP.
- I.A.12 Lagoons and the storage reservoir shall be inspected in accordance with the O&M. A minimum of 2-feet of freeboard shall be maintained in the lagoons and storage reservoir at all times.
- I.A.13 The treatment and disposal facility shall be fenced and posted with signs indicating wastewater treatment. Rapid infiltration basins, the reservoir and irrigated fields shall be fenced and posted to restrict public and vehicular traffic.
- I.A.14 With the exception of tailwater control areas, irrigation shall be performed in such a manner as to reduce standing water to a minimum. Runoff beyond property boundaries is prohibited.
- I.A.15 The treatment facility shall be operated by a Nevada Certified Class I (or higher) Operator. The Discharge Monitoring Reports (DMRs) must be signed by the facilities highest ranking certified operator. The first DMR submitted under this permit must include the written designation of certified operator (required by Part III.A.2) as the authorized representative to sign the DMRs. If the certified operator in responsible charge changes, then a new designation letter must be submitted.
- I.A.16 Abandonment of any groundwater monitoring wells shall be conducted under the approval of, and in accordance with the requirements established by, the Division and the State Engineer's office.
- I.A.17 All solid waste screening and sewage sludge shall be disposed of in a manner approved by the Division and the County. Facilities that generate and dispose of sewage sludge shall monitor the concentrations of arsenic, cadmium, chromium, copper, lead, mercury, molybdenum, nickel, selenium and zinc and report in mg/dry Kg of sludge as outlined below.

Dry Sludge Disposal rate in tons/yr.

Frequency

>0 - 319 320 - 1,653 1,654 - 1,6537 <1,6538 each year once a quarter once every 2 months once a month

A monitoring report shall be submitted with the Discharge Monitoring Report (DMR).

I.A.18 Copies of this permit, any subsequent modifications, and the approved O&M Manual shall be maintained at the permitted facility or at the utility office at all times.

- I.A.19 This permit may be re-opened, re-evaluated, and modified by the permitting authority to include effluent limits, additional testing, and/or other appropriate actions in response to demonstrated effluent toxicity or conditions confirmed by subsequent monitoring data. This permit may also be re-evaluated and modified by the permitting authority to incorporate alternative permit conditions determined to be appropriate based on subsequent monitoring data and/or effluent toxicity information.
- **1.A.20** The Permittee shall remit an annual review and services fee in accordance with NAC 445A.232 starting **July 1, 2010** and every year thereafter until the permit is terminated.
- **I.A.21** There shall be no discharge from the collection, treatment and disposal facilities except as authorized by this permit.

I.B. MONITORING AND REPORTING

I.B.1 Monitoring

- Representative Samples: Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.
- b. Test Procedures: Analyses shall be conducted by a "certified laboratory" using an "approved method of testing", as defined in NAC 445A.0564 and NAC 445A.0562, respectively.
- c. **Recording the Results:** For each measurement or sample taken pursuant to the requirements of this permit, the Permittee shall record the following information:
 - The exact place, date, and time of sampling;
 - ii. The dates the analyses were performed;
 - iii. The person(s) who performed the analyses;
 - iv. The analytical techniques or methods used; and
 - v. The results of all required analyses, including reporting limits.
- d. Additional Monitoring by Permittee: If the Permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in any calculation and/or reported value required by this permit. Such increased frequency shall also be indicated in required reports.
- e. **Records Retention:** All records and information resulting from monitoring activities; the permit application; reporting required by this permit, including all records of analyses performed, calibration and maintenance of instrumentation, and recordings from continuous monitoring instrumentation shall be retained for a minimum of five (5) years or longer if required by the Administrator.

- f. Reporting Limits: Unless otherwise allowed by the Division, the approved method of testing selected for analyses shall have a reporting limit which is:
 - i. Half or less of the discharge limit; or, if there is no discharge limit,
 - Half of less of the applicable water quality criteria; or, if there is no limit or criteria,
 - iii. The lowest reasonable obtainable limit using an approved test method.
- g. **Modification of Monitoring Frequency and Sample Type:** After considering monitoring data, stream flow, discharge flow, discharge frequency, and receiving water conditions, the Division and/or Administrator may, for just cause, modify the monitoring frequency and/or sample type by issuing an order to the Permittee.

h. Definitions

- i. **Daily maximum:** is the highest measurement obtained during the monitoring period.
- ii. 30-day average discharge: means the total discharge during a month divided by the number of samples in the period that the facility was discharging. Where less than daily sampling is required by this permit, the 30-day average discharge shall be determined by the summation of all the measured discharges divided by the number of samples during the period when the measurements were made.
- iii. **30-day average concentration:** means the arithmetic mean of measurements made during a month (other than for fecal coliform bacteria). The "30-day average concentration" for fecal coliform bacteria means the geometric mean of measurements made during a month. The geometric mean is the "nth" root of the product of "n" numbers. Geometric mean calculations where there are non-detect results for fecal coliform shall use a value of ½ the detection limit to represent the non-detect results.
- iv. "Discrete" sample: means any individual sample collected in less than 15 minutes.
- v. "Composite" sample: (for flow-rate measurements) means the arithmetic mean of no fewer than six (6) individual measurements taken at equal time intervals for 24 hours or for the duration of discharge, whichever is shorter.
- vi. "Composite" sample: (for measurements other than flow-rate) means a combination of no fewer than six (6) individual flow-weighted samples obtained at equal time intervals for 24 hours or for the duration of discharge, whichever is shorter. Flow-weighted sample means that the volume of each individual sample shall be proportional to the discharge flow rate at the time of sampling.

I.B.2 Reporting:

- a. Discharge Monitoring Reports: Analytical data and monitoring results shall be summarized and reported for presentation in standardized Discharge Monitoring Reports (DMRs). Laboratory reports for quantitative analyses conducted by State of Nevada certified laboratories must accompany DMR submittals. If no discharge occurs during the reporting period, report "no discharge" on the submitted DMR. If groundwater wells are dry, report "dry" on the DMR for that period.
- b. **Schedule:** DMRs shall be received by the 28th day of the month following the third month of each quarter (reporting period). Quarterly and annual reporting periods are based on the standard annual cycle, January 1 through December 31. The first report is due on **July 28, 2010.**

c. Submittals:

- i. <u>Quarterly Reporting:</u> Monitoring results for the effluent discharge and groundwater monitoring requirements described in Part I.A.1. shall be summarized and reported for each quarter. The Permittee is considered in compliance if the reported results are less than the established permit limit. Any data submitted that exceeds the limits of Part I.A.1 must be explained by a narrative.
- Annual Report: The fourth quarter report shall contain a plot of concentration (y-axis) versus date (x-axis) for each effluent limit listed under Part I.A.1 and each groundwater monitoring parameter (constituent) listed under Part I.A.3. The plot shall include data from the preceding five (5) years or the lifetime of the permit, whichever is shorter. A narrative must explain any data point from the current year that exceeds the limits in Part I.A.1.
 - a. As required by Sections I.A.I and I.A.II of this permit, the annual report shall demonstrate that the facility has maintained compliance with the maximum yearly application rate of nitrogen. The demonstration shall include the total nitrogen in the applied wastewater, nitrogen from fertilizer applications, nitrogen uptake by plant materials, and fraction of applied nitrogen removed by denitrification and volatilization.
 - b. The 4th Quarter Report shall include information on pond maintenance per I.A.7 and I.A.8.
- iii. <u>Planned Changes:</u> The Permittee shall give notice to the Division as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when the alteration or addition to a permitted facility:
 - a. Could significantly change the nature or increase the quantity of pollutants discharged; or
 - b. Results in a significant change to the Permittee's sludge management practice or disposal sites.

- d. Anticipated Noncompliance: The Permittee shall give advance notice to the Administrator of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- e. **Submittal:** An original signed copy of these, and all other reports required herein, shall be submitted to the Division at the following address:

Division of Environmental Protection Bureau of Water Pollution Control Attn: Compliance Coordinator 901 S. Stewart Street, Suite 4001 Carson City, Nevada 89701

I.B.3 Signatory Certification Required on Application and Reporting Forms:

a. All applications, reports, or information submitted to the Administrator shall be signed and certified by making the following certification:

"I certify under penalty of law, that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- b. All applications, reports, or other information submitted to the Division shall be signed by one of the following:
 - A principal executive officer of the corporation (of at least the level of vice president) or his authorized representative who is responsible for the overall operation of the facility from which the discharge described in the application or reporting form originates;
 - ii. A general partner of the partnership:
 - iii. The proprietor of the sole proprietorship; or
 - iv. A principal executive officer, ranking elected official, or other authorized employee of the municipal, state, or other public facility.
- c. Changes to Authorization: If an authorization under Part I.B.3. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part I.B.3. must be submitted to the Administrator prior to or together with any reports, information, or applications to be signed by an authorized representative.

PART II

II.A. MANAGEMENT REQUIREMENTS

II.A.1 Change in Discharge: All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than, or at a level in excess of, that authorized shall constitute a violation of the permit.

Any anticipated facility expansions or treatment modifications which will result in new, different, or increased discharges of pollutants must be reported by submission of a new application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the permit issuing authority of such changes. Any changes to the permitted treatment facility must comply with NAC 445A.283 to 445A.285. Pursuant to NAC 445A.263, the permit may be modified to specify and limit any pollutants not previously limited.

- II.A.2 Facilities Operation-Proper Operation and Maintenance: The Permittee shall, at all times, maintain in good working order and operate as efficiently as possible all treatment or control facilities, collection systems, or pump stations installed or used by the Permittee to achieve compliance with the terms and conditions of this permit.
- II.A.3 Adverse impact-Duty to Mitigate: The Permittee shall take all reasonable steps to minimize releases to the environment resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge. The Permittee shall carry out such measures, as reasonable, to prevent significant adverse impacts on human health or the environment.

II.A.4 Noncompliance, Unauthorized Discharge, Bypassing, and Upset:

- a. Any diversion, bypass, spill, overflow, or discharge of treated or untreated wastewater from wastewater treatment or conveyance facilities under the control of the Permittee is prohibited except as authorized by this permit. In the event the Permittee has knowledge that a diversion, bypass, spill, overflow, or discharge not authorized by this permit is probable, the Permittee shall immediately notify the Division at 775.687.9425 and/or 888.331.NDEP(6337).
- b. The Permittee shall notify the Administrator within twenty-four (24) hours of any diversion, bypass, spill, upset, overflow, or release of treated or untreated discharge other than that which is authorized by the permit. The following shall be included as information which must be reported within 24 hours:
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit;
 - ii. Any upset which exceeds any effluent limitation in the permit; and
 - iii. Any violation of a limitation for any toxic pollutant or any pollutant identified as the method to control a toxic pollutant.

- c. A written report shall be submitted to the Division within five (5) days of diversion, bypass, spill, overflow, upset, or discharge detailing the entire incident including:
 - Time and date of discharge;
 - Exact location and estimated amount of discharge;
 - iii. Flow path and any bodies of water which the discharge contacts;
 - iv. The specific cause of the discharge; and
 - v. The preventive and/or corrective actions taken.
- d. The Permittee shall report all instances of noncompliance not reported under Part II.A.4.c. at the time monitoring reports are submitted. The reports shall contain the information listed in Part II.A.4.c.
- e. A "bypass" means the intentional diversion of waste streams from any portion of a treatment facility.
 - i. <u>Bypass not exceeding limitations:</u> The Permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II.A.4.a. and II.A.4.b.
 - ii. <u>Anticipated bypass:</u> If the Permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible, at least ten (10) days before the date of bypass.
- f. Bypass is prohibited and the Division may take enforcement action against a Permittee for bypass unless:
 - The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - ii. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment down time. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurs during normal periods of equipment downtime or preventative maintenance; and
 - iii. The Permittee submitted notices as required under Part II.A.4.e.
- g. The Division may approve an anticipated bypass, after considering its adverse effects, if the Division determines that it will meet the three conditions listed in Part II.A.4.f.

- h. An "upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
 - A Permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:
 - i. An upset occurred and the Permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated;
 - iii. The Permittee submitted notice of the upset as required under Part II.A.4.e.; and
 - iv. The Permittee complied with any remedial measures required under II.A.3.
- j. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of Part II.A.4.i. are met.
- k. In selecting the appropriate enforcement option, the Administrator shall consider whether or not the noncompliance was the result of an upset. The burden of proof is on the Permittee to establish that an upset occurred.
- II.A.5 Removed Substances: Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of process wastewaters shall be disposed of in a manner such as to prevent any pollution from such materials from entering any navigable waters.
- II.A.6 Safeguards to Electric Power Failure: In order to maintain compliance with the effluent limitations and prohibitions of this permit the Permittee shall either:
 - a. Provide, at the time of discharge, an alternative power source sufficient to operate the wastewater control facilities; or
 - b. Halt or reduce all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

II.B. RESPONSIBILITIES

- **II.B.1** Right of Entry and Inspection: The Permittee shall allow the Administrator and/or his authorized representatives, upon the presentation of credentials, to:
 - Enter at reasonable times upon the Permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit;

- Have access to and copy any records required to be kept under the terms and conditions of this permit;
- Have unrestricted access to employees and others for interviews during any onsite inspection or investigation conducted by the Division relating to the administration or enforcement of the provisions of the permit;
- d. Inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations required in this permit; and
- e. Perform any necessary sampling or monitoring to determine compliance with this permit at any location for any parameter.
- II.B.2 Transfer of Ownership or Control: In the event of any change in control or ownership of facilities from which the authorized discharge emanates, the Permittee shall notify the succeeding owner or controller of the existence of this permit, by letter, a copy of which shall be forwarded to the Administrator. The Administrator may require modification or revocation and re-issuance of the permit to change the name of the Permittee and incorporate such other requirements as may be necessary. The Division shall approve all transfer of permits.
- II.B.3 Availability of Reports: Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the office of the Administrator. As required by the Act, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445A.710.
- II.B.4 Furnishing False Information and Tampering with Monitoring Devices: Any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained by the provisions of NRS 445A.300 to 445A.730, inclusive, or by any permit, rule, regulation, or order issued pursuant thereto or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the provisions of NRS 445A.300 to 445A.730, inclusive or by any permit, rule, regulation, or order issued pursuant thereto is guilty of a gross misdemeanor and shall be punished by a fine of not more than \$10,000 or by imprisonment. This penalty is in addition to any other penalties, civil or criminal, provided pursuant to NRS 445A.300 to 445A.730, inclusive.
- II.B.5 Penalty for Violation of Permit Conditions: NRS 445A.675 provides that any person who violates a permit condition is subject to administrative and judicial sanctions as outlined in NRS 445A.690 through 445A.705.
- II.B.6 Permit Modification, Suspension, or Revocation: After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - a. Violation of any terms or conditions of this permit:
 - b Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;

- A change in any condition that requires either a temporary or permanent reduction or elimination of the authorized discharge;
- II.B.7 Toxic Pollutants: Notwithstanding Part II.B.6, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition and the Permittee so notified.
- II.B.8 Liability: Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the Permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable Federal, State, or local laws, regulations, or ordinances.
- II.B.9 Property Rights: The issuance of this permit does not convey any property rights, in either real or personal property, or any exclusive privileges, rights, or rights of access or easement; nor does it authorize any injury to private property, any invasion of personal rights, or any infringement of Federal, State, or local laws or regulations.
- II.B.10 Severability: The provisions of this permit are severable, and if any provision of this permit or the application of any provisions of this permit to any circumstance is held invalid, the application of such provision to other circumstances and the remainder of this permit shall not be affected thereby.
- II.B.11 Need to Halt or Reduce Activity Not a Defense: The need to halt or reduce permitted activities in order to maintain compliance with the conditions of this permit shall not be a defense for a Permittee in an enforcement action.
- II.B.12 Duty to Provide Information: The Permittee shall furnish to the Administrator, within a reasonable time, any relevant information which the Administrator may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The Permittee shall also furnish to the Administrator, upon request, copies of records required to be kept by this permit.

PART III

III.A. OTHER REQUIREMENTS

- III.A.1 Reapplication: If the Permittee desires to continue to discharge, he shall reapply not later than 180 days before this permit expires on the application forms then in use. The fee required by NAC 445A.232 shall accompany the renewal application.
- III.A.2. Flow Rate Notification: The Permittee shall notify the Administrator, by letter, not later than 90 days after the 30-day average daily influent flow rate first equals or exceeds 85% of the design treatment capacity of the permitted facility or limitations specified in Part I.A. The letter shall include:
 - a. The 30-day average daily influent flow rate:
 - b. The maximum 24-hour flow rate measured during the pertinent 30-day period and the date the maximum flow occurred;

- An estimate of when the 30-day average influent flow rate will equal or exceed the design capacity of the permitted facility;
- d. A status report for the facility which will outline, but not be limited to, past performance, remaining capacity of the limiting treatment and disposal units or sites, past operational problems and improvement instituted, and modifications to the treatment works which are needed to attain the permitted flow rate due to changing, site-specific conditions or design criteria; and e. A schedule of compliance to provide additional treatment capacity before the 30-day average daily influent flow rate equals the present design treatment capacity of the permitted facility.
- III.A.3. Holding Pond Conditions: The construction of any new ponds for process wastewater and stormwater runoff control, modifications to existing ponds, and/or closure or replacement of existing ponds must be approved by the Division prior to commencement of construction. Such ponds shall be located and constructed so as to:
 - Contain, without discharge, the once-in-25 year, 24-hour storm event at said location;
 - Withstand, without structural damage, the once-in-100 year flood of said location;
 and
 - c. Prevent escape of wastewater by leakage other than as authorized by this permit.

	C 20	NEV Permit Processi	ng Form
1.	Applicant na	ime: City of Carlin-WWTP	
		Check #: 20633	Check Date: 11-12-09
2.	Application:	Receipt#: 37963	Amount: \$3,000.00
	Application.	Date received: 1/-19-09	Permit#: NEV 93001
		Confidentiality requested? NO	Confidentiality Concur?
3.	Application re	eviewed and accepted: 2-1-10	
4.	Permit drafted		
5.	Fact Sheet pr	repared: 2-4-10	
6.	Public Notice	prepared: 2-4-10	
7.	Routed to ND	EP staff: 2-4-10	
8.	Comments re	solved & modifications made: 3-/-10	
9.		visor signature on Draft permit:	1 D 3/2/10
10.	Copy of Draft	Permit, Fact Sheet & NOPA to Permittee: 3-8	
11.	Public Notice	to Appropriate Newspaper: 3-7-10	
12.	Copy of Publi	c Notice and Fact Sheet to John Walker: 3-8-	10
13.	Public Notice	sent to mailing List: 3-10-10	
14.	Certification o	f Publication/Copy of Publication: 3-10-10	
15.	Comments re	ceived from others:	
16.	Public hearing	required:	
17.	Public notice	of public hearing prepared: —	
18.	Public Notice	of Public Hearing to —	
19.	Certification o	f Publication/Copy of Publication:	
20.	Public Hearing	g Date: —	
21.	Permit redraft	ed (steps 4 - 18):	
22.	Response to (Comments prepared:	
23.	Decision to Iss	sue Permit/Notice of Decision Prepared: 4 - 13 -	/D
24.		red all required actions and determined complete and the permit ready to be issued."	trul_
25.	Permits Super	visor signature:	0 4/14/10
26.	Permit issued	Date: 4-21-10	
27.	Copy to Comp	oliance: 4-21-10	
28.	Computer date	abase updated: 4-21-10	
29.	Permit File Or	ganized and completed: 4-21-10	
			May 13, 2008



Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

David Emme, Administrator

July 29, 2015

Kirk Peterson, Certified Operator SPB Utility Services, Inc. 430 Stoker Ave., Suite 207 Reno, NV 89503

RE: Inspection Report for the City of Carlin WWTF - # NS0093001

Dear Mr. Peterson:

Enclosed is a copy of the inspection report for this municipal lagoon and effluent reuse system. Groundwater monitoring well recommendations discussed in this report may be considered by the Permits Branch upon the upcoming permit renewal period. The City of Carlin should discuss preparation of a Facility Plan with its engineer, especially if state and federal funding will be pursued. Finally, the weed issue would best be addressed by discussion between the City and rancher.

No written response is required at this time. However, if you or the City of Carlin should have any questions in regards to this report, please feel free to contact me at (775) 687-9424.

Sincerely,

Mark A. Kaminski, P.E.

Technical, Compliance & Enforcement Branch

Bureau of Water Pollution Control

Mark a. Kaminski

Enclosure:

Inspection Report

cc (w/enclosure):

Ken Mallory, SPB Utility Services, Inc., 430 Stoker Ave., Suite 207, Reno, NV 89503 Carlos Esparza, Public Works Director, City of Carlin, P.O. Box 340, Carlin, NV 89822 Clay Knight, Public Works Dept., City of Carlin, P.O. Box 340, Carlin, NV 89822 Sylvia Dahl, Asst. Compliance Coordinator . #

INSPECTION REPORT

Nevada Division of Environmental Protection Bureau of Water Pollution Control

FACILITY PERMIT:

NS0093001

FACILITY TITLE:

CITY OF CARLIN WASTEWATER TREATMENT

PLANT

FACILITY DESCRIPTION: MUNICIPAL LAGOONS

FACILITY LOCATION:

101 SOUTH EIGHTH STREET, CARLIN, NV 89822

APPROVED OUTFALLS:

001 EXTERNAL OUTFALL

002 LAND APPLICATION SITE

003 EXTERNAL OUTFALL

LAND APPLICATION SITE 004

LAND APPLICATION SITE 005

006 MONITORING WELL

007 MONITORING WELL

800 MONITORING WELL

MONITORING WELL 009

MONITORING WELL 010

011 INTERNAL OUTFALL

DATE OF INSPECTION:

6/10/2015

TYPE OF INSPECTION:

RECONNAISSANCE INSPECTION (RI)

ATTENDEES:

MARK KAMINSKI, P.E., NDEP

CARLOS ESPARZA, PUBLIC WORKS DIRECTOR,

CITY OF CARLIN

CLAY KNIGHT, CITY OF CARLIN

KIRK PETERSON, CERTIFIED OPERATOR, SPB

NICK BROTHERS, E.I., NDEP ALAN PINEDA, E.I., NDEP

DISCHARGE RATE:

0.43

PERMITTED QUANTITY:

0.5

DATE OF REPORT:

7/29/2015

INTRODUCTIONS/FACILITY OVERVIEW

Carlin's WWTP was previously inspected by BWPC in 2013. The purpose of this day's site visit was to review the facility's groundwater monitoring wells and its reuse program. The Carlin WWTP services 2,400 residents. Discharge permit # NS0093001 has expired and is currently up for renewal.

DISCHARGE MONITORING REPORTS

The City of Carlin does not have a certified Grade I Wastewater Operator. The certified operator requirement is contracted out to SPB Utilities. Mr. Ken Mallory, Grade IV WW Operator signs the DMRs.

Flow: The influent flow rate averaged 0.43 MGD or 180 GPD/capita. Carlin's Public Works Director mentioned that this relatively high per capita flow rate is attributed to the practice of dewatering residential basements (i.e. home sump pumps) located in shallow groundwater zones near the Humboldt River floodplain. If there were no dewatering contribution, NDEP estimated that Carlin's flow rate would be closer to 0.24 MGD or 100 GPD/capita. Therefore, Carlin's sewage flow contribution is estimated about 50% of the present rated treatment capacity of Ponds #1-2.

CBOD: Carlin's influent CBOD level averaged 111 mg/l, which reflects dilution by basement groundwater addition. Without dilution, typical domestic sewage strength would be around 180 to 220 mg/l of CBOD. Effluent CBOD levels from Pond #2 averaged 27 mg/l. One high month of effluent CBOD level had occurred in May 2014 (74 mg/l), which may have been from a spring pond turnover event.

TSS: Effluent TSS levels from Pond #2 averaged 39 mg/l. There was one high effluent TSS sample, which had occurred in April (102 mg/l), suspected to be from a springtime algal bloom.

TN: Effluent Total Nitrogen level averaged 17 mg/l.

Nitrogen Balance: SPB reported an annual nitrogen application rate of 103 lbs. of Nitrogen per acre from 17.7 Million Gallons of effluent water that was applied via flood irrigation method. Based on this application rate and the average effluent nitrogen level of 17 mg/l, NDEP estimated that 24 acres of fields were irrigated last year, which is about two-thirds of the available acreage. Carlin's three reuse fields, West, Central and East, account for some 36 acres of flood-irrigated pasture.

Water Balance: Refer to the 1st page of the attached spreadsheet. Using SPB's data from last year and evaporation rate data from Elko County published by the UNR's Desert Research Institute, NDEP prepared a water balance to estimate the treatment ponds' seepage losses. Inflow into the ponds averaged 0.43 MGD. Effluent discharged to the storage reservoir averaged 0.19 MGD. Irrigation flow averaged 0.06 MGD. Surface evaporation in Ponds #1 (10 acres) and #2 (8.5 acres) was estimated at 3.25 ft. of water per year or 0.05 MGD. Therefore, 0.43 MGD flowed into the ponds, while Seepage Losses plus Outflows totaled 0.3 MGD. Estimated seepage losses are estimated at 0.13 MGD or 7,000

GPD per Acre in Ponds #1-2. Such seepage losses are much higher than the 500 GPD/acre guideline specified in State (WTS-5) and National (Ten State Standards) for clay-lined treatment ponds. Therefore, this inspection report recommends that the BWPC Permit Writer consider representative leak detection wells for Ponds #1-2 during the upcoming permit renewal.

Groundwater Monitoring: NDEP surveyed and plotted the groundwater monitoring map shown in Figure 1. SPB had indicated that since the West and East RIBs were not in use, that NDEP consider waiving MW-1 and MW-2 monitoring requirements on the next permit renewal. In response, NDEP noted that there is no representative leak-detection wells for the two clay-lined treatment ponds. Therefore, the Permit Writer may consider replacing MW-1 and MW-2 with wells for the treatment ponds . Last year's groundwater monitoring data is summarized in the 2nd spreadsheet.

Well Logs: NDEP has provided the GPS coordinates for the monitoring wells in Spreadsheet #3. This analysis indicated that representative leak detection wells for the treatment ponds are needed to better monitor their seepage losses and any impact on groundwater quality.

FACILITY WALKTHROUGH

Monitoring Wells: The five monitoring wells were surveyed by NDEP. On the south side of the river, the RIBs are presently inactive so SPB mentioned they would like to inactivate Wells #1 and #2 on the next permit renewal. The RIBs are reserved for emergency disposal in case the fields were unavailable such as a flood event during full storage in the reservoir. On the north side of the river, Wells #3-5 monitor reuse activity at the three irrigation fields, but NDEP noted there are no representative leak detection wells for the treatment ponds so this issue will be considered by NDEP during the permit renewal.

Reuse: The ranch workers determine the reuse flow amounts and when the fields are in rotation. On this day, flood reuse was in occurrence at the East Irrigation Field, while cattle were noted grazing in the Central Irrigation Field. The drier or less vegetated field was the West Field. NDEP did not note any noticeable tailwater issues such as direct runoff of effluent into the river. The main issue noted by NDEP at the fields was the presence of weeds such as thistle, and to a lesser extent, mustard. Proper weed control would require an end-of-season burning or disking of the fields with reseeding to establish the desired pasture seed mix. This item should be coordinated between the City and the rancher to ensure that the forage crop yield is maximized. Last year's data indicated the City reclaimed only less than 15% of the water it treated. With better liner materials in the ponds and/or reservoir, less water would be lost to seepage and more water available for irrigation and other beneficial reuse purposes.

Treatment Ponds: An afternoon thunderstorm had moved into the area by the time we toured the ponds, but the surface color in both ponds was green indicative of adequate oxygenation and moderate organic loading. Without modern geomembrane liners, the Public Works staff must spray and burn these weeds annually to keep the cattails and bulrush in check. Pond #1 is aerated by a total of 25-HP (i.e., 2 x 7.5-HP + 2 x 5-HP), while Pond #2 is facultative (polishing). The large, open surface area in these two ponds does allow for sufficient wind-driven aeration and mixing on the surface. Also, it should be noted that with basement dewatering, Carlin's influent sewage is already at diluted or weak-strength compared to other treatment systems where Infiltration / Inflow (I / I) is not quite so prevalent.

<u>Lift Stations</u>: Within a year, the Smith and Loveless influent lift station will be decommissioned. The current dry pit will be replaced with an above-grade control panel. For perhaps the last time, NDEP staff toured the existing dry pit enclosure using an outdated but still functional man-lift hoist (i.e., one-man elevator). Attendees also toured the effluent pump house, which tracks the flow delivered to the reservoir and reuse fields.

CONCLUSIONS

The afternoon's site visit proved worthwhile to see the groundwater wells and reuse fields. Based on the observations and DMR review, the following items are noted:

- Seepage: The NDEP water balance estimate using Carlin's metered data suggests that
 the pond seepage losses may be high and much higher than published State and
 National guidelines for clay-lined ponds. Therefore, this inspection finding suggests that
 leak-detection wells for the two treatment ponds be considered on the upcoming permit
 renewal.
- Monitoring Wells: With the RIBs offline, MW-1 and MW-2 may be obsolete, but correspondingly, this facility does not sufficiently monitor seepage losses from the ponds to the groundwater. Therefore, the permit renewal may consider waiving MW-1 and MW-2 but installing leak detection wells for the two treatment ponds.
- Reuse: The fields appear to have been overgrown with weeds such as thistle. The City
 of Carlin should review this finding with the rancher to determine a schedule when
 reseeding would be beneficial to reestablish a better forage crop mix for the cattle
 grazing. See example photos of other reuse sites where weed growth is not as
 prevalent.
- Liners: The clay liners are now 43 years old. Due to issues such as sludge buildup and seepage losses, the City of Carlin needs to consider a Facility Plan to budget for eventual pond and storage reservoir liner upgrade with modern liner materials such as geomembranes (e.g., 60-mil High Density Polyethylene or HDPE).

FINDINGS

None

RECOMMENDATIONS

No.	Recommendation
1	During the permit renewal, this report recommends that the Permit Writer consider representative monitoring wells to assess seepage losses from the two treatment ponds. Also, MW-1 and MW-2 should be reviewed for removal since the RIBs are rarely, if ever used.
2	The City of Carlin should prepare a comprehensive Facility Plan to examine upgrading the liners and removal of accumulated sludge (biosolids).
3	Invasive (noxious) weeds such as thistle appear to be too prolific at this reuse site. The City of Carlin needs to discuss this NDEP finding with its rancher

lessee to grow more forage crop and less weeds.

CITY OF CARLIN NS0093001

_			_	_	_	_	_	_	_	_	_	_	_	
TN-E	20			21			14			14			17	M&R
pH-E	7.7	9.7	7.9	8.3	8.1	7.9	8.2	80	8.2	8.1	7.9	7.9	8.0	6 to 9
PH-I	7.9	9.7	7.8	9.7	9.7	8.4	7.3	7.5	7.8	7.8	7.8	7.8	7.7	M&R
TSS-E	35	12	27	102	85	14	36	99	17	27	35	24	33	06
CBOD-I CBOD-E TSS-E	35	11	22	46	74	14	16	24	10	26	27	15	27	45
CBOD-I	117	87	111	97	84	147	109	139	70	86	141	130	111	M&R
Flow-Reu	0/0	0/0	0/0	0.339 / -	- / 60.0	No Data	0.158 / 1.6	0.12/3.26	0/0	0/0	0/0	0/0	90.0	M&R
Flow-Sto	0.09 / 0.55	0.1/0.33	0.03 / 0.29	-/80.0	0.348 / -	No Data	0/0	0/0	0.02 / 0.61	0.29 / 1.02	0.42 / 0.6	0.67 / 2.4	0.19	M&R
Flow-Inf	0.45 / 0.56	Feb-14 0.47 / 0.53 0.1 / 0.33	0.44 / 0.55	0.42 / 0.73	May-14 0.41 / 0.74	No Data	0.39 / 0.68	0.4 / 0.43	Sep-14 0.39 / 0.49 0.02 / 0.61	0.4 / 0.54	0.47 / 0.6	0.44 / 0.51	0.43	0.5/0.9
Mon-Yr	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Ave.	Limits

Nitrogen Balance: Acreage Applied = (17.7 MG/yr) x (17 mg/l, TN) x (8.34) / (103 lbs. TN/acre) = 24 acres.

Water Balance (Ponds #1-2):

Seepage Loss (ponds) = Inflow (To Ponds) - Outflow (To Storage Reservoir) - Outflow (To Reuse) - Outflow (Evaporation Loss)

Evaporative Loss (Desert Research Institute) = $(51.5 \text{ in./yr.} - \text{Elko Co. evaporative pan data}) \times 0.75 \text{ (adjustment factor)} = 39 \text{ in./yr.} \text{ for Ponds #1-2.}$ Evaporative Loss (Ponds #1-2) = $(39 \text{ in./yr.})/(12 \text{ in./ft.}) \times (10 \text{ ac.} - \text{Pond #1 + 8.5 ac.} - \text{Pond #2}) = 60.1 \text{ AF/yr.} = 19.6 \text{ MG/yr.} = 0.05 \text{ MGD}$

Seepage Loss (MGD) = 0.43 MGD - (0.19 MGD + 0.06 MGD + 0.05 MGD) = 0.13 MGD

Seepage Loss (GPD / acre) = (130,000 GPD) / (18.5 acre) = 7,000 GPD /acre.

QTR-YR	0	DEPTH (ft)	(I/gm) NT	CI (mg/l)	TDS (mg/l)
1st-2014	MW-1	12	1.4	86	720
2nd-2014	MW-1	9.5	< 2.3	75	009
3rd-2014	MW-1	6.6	2.2	7.1	009
4th-2014	MW-1	12	2.1	99	200
Ave.		11	1.7	28	605
limits		M&R	10	M&R	M&R

QTR-YR	٩	DEPTH (ft)	(I/6m) NT	CI (mg/l)	TDS (mg/l)
1st-2014	MW-2	10	4.9	110	750
2nd-2014	MW-2	80	< 4.9	84	750
3rd-2014	MW-2	8.6	4.0	87	780
4th-2014	MW-2	10	6.0	11	670
Ave.		6	3.1	06	738
Limits	,	M&R	10	M&R	M&R

QTR-YR	a	DEPTH (ft)	(l/gm) NT	CI (mg/l)	TDS (mg/l)
1st-2014	MW-3	6	0.7	110	290
2nd-2014	MW-3	7	< 1.2	90	099
3rd-2014	MW-3	8	9.0	63	650
4th-2014	MW-3	6	0.5	52	290
Ave.		8	9.0	7.1	673
Limits		M&R	10	M&R	M&R

QTR-YR	₽	DEPTH (ft)	TN (mg/l)	CI (mg/I)	TDS (mg/l)
1st-2014	MW-4	7	1.9	220	1,000
2nd-2014		5	< 3.6	130	820
3rd-2014	_	6.1	2.9	120	810
4th-2014	MW-4	9	2.8	93	640
Ave.		9	2.4	141	818
Limits	,	M&R	10	M&R	M&R

QTR-YR	₽	DEPTH (ft)	(I/gm) NT	CI (mg/l)	TDS (mg/l)
1st-2014	MW-5	5.5	9.0	140	940
2nd-2014	MW-5	4	< 1.6	120	890
3rd-2014	MW-5	3.5	9.0	120	880
4th-2014	MW-5	9	9.0	120	800
Ave.		5	0.7	125	878
Limits		M&R	10	M&R	M&R

WELLID	DESCRIPTION (E.G., LOCATION)	LATITUDE (D. M & S)	LONGITUDE (D, M & S)
MW # 1	l ts	40° 42' 7.4" N	116° 6′ 16.2″ N
MW#2	East RIB	40° 42' 17.3" N	116° 5' 54.0" N
MW#3	West Irrigation Field	40° 42' 31.3" N	116° 6' 16.9" N
MW#4	Central Irrigation Field	40° 42' 35.6" N	116° 6' 0.3" N
MW#5	East Irrigation Field	40° 42' 46.3" N	116° 5' 35.0" N



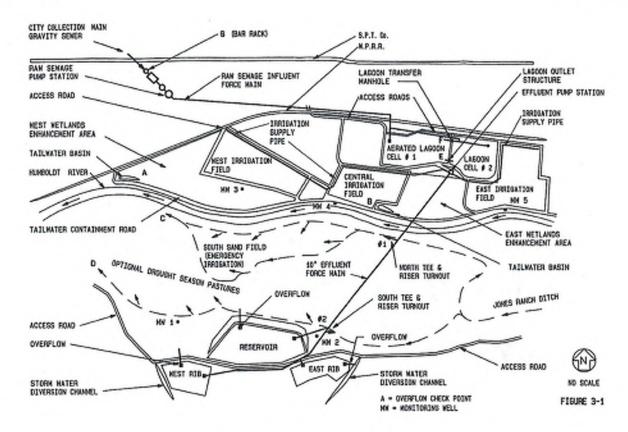
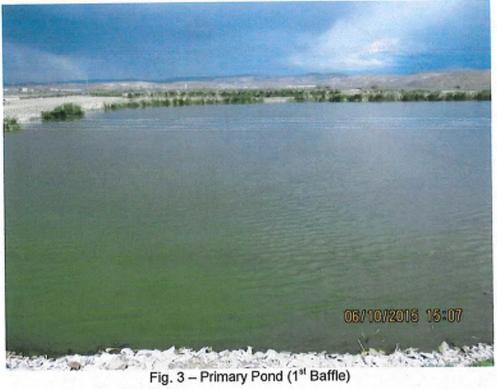


Fig. 2 - Field Map (O&M)



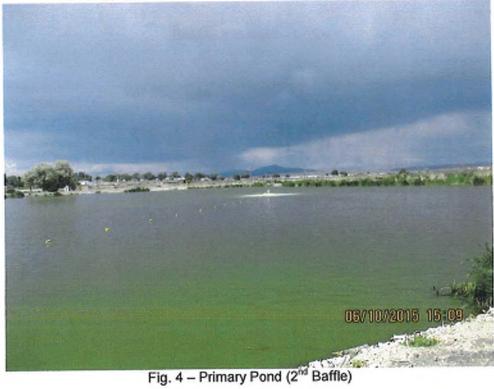




Fig. 5 – Primary Pond (3rd Baffle)

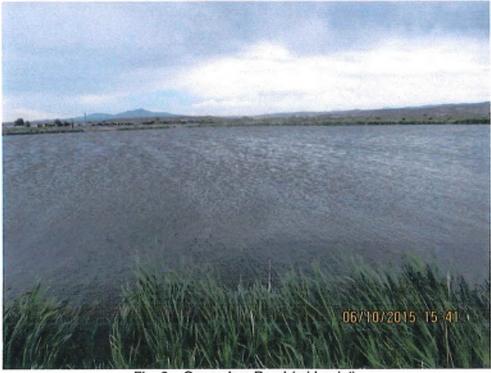


Fig. 6 - Secondary Pond (mid-point)



Fig. 7 - Secondary Pond (outlet)



Fig. 8 - East Irrigation Field



Fig. 9 - Central Irrigation Field



Fig. 10 - West Irrigation Field (idle)

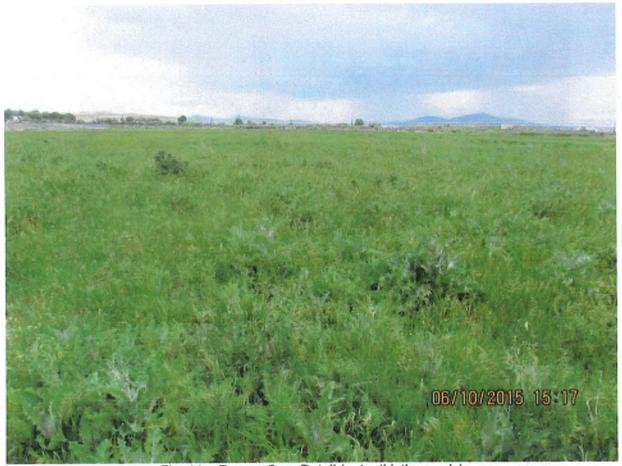


Fig. 11 - Forage Crop Detail (note: thistle weeds)

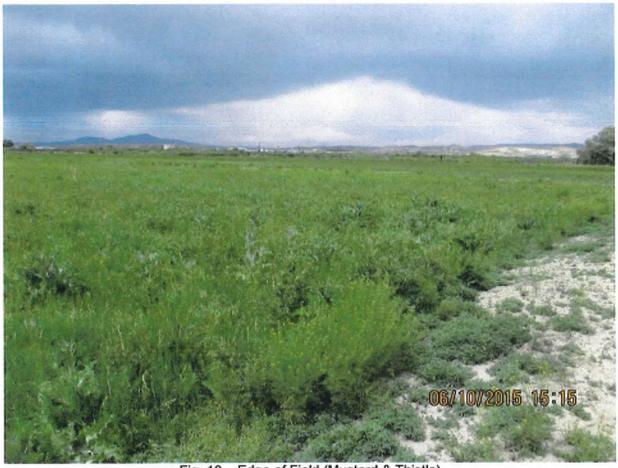


Fig. 12 - Edge of Field (Mustard & Thistle)



Fig. 13 - Recently Plowed Field by Central Irrigation Field



Fig. 14 - South Storage Reservoir

10 [City of Carlin] July 29, 2015



Fig. 15 - MW-4 Proximity to the River



Fig. 16 - MW-4 Pedestal & Casing Cover

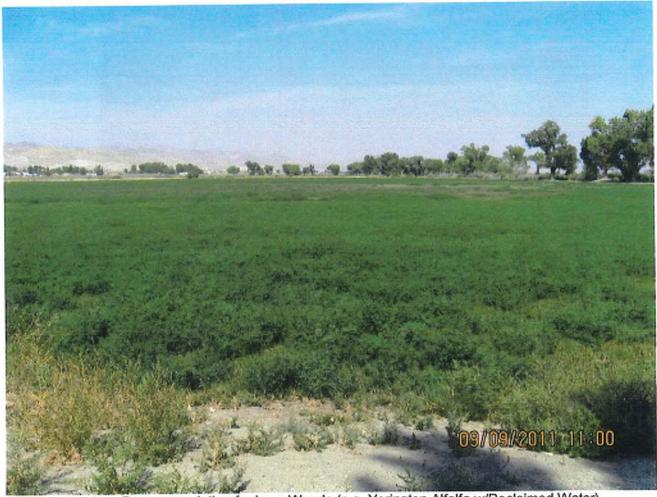


Fig. 17 - Recommendation for Less Weeds (e.g. Yerington Alfalfa w/Reclaimed Water)

12 [City of Carlin] July 29, 2015

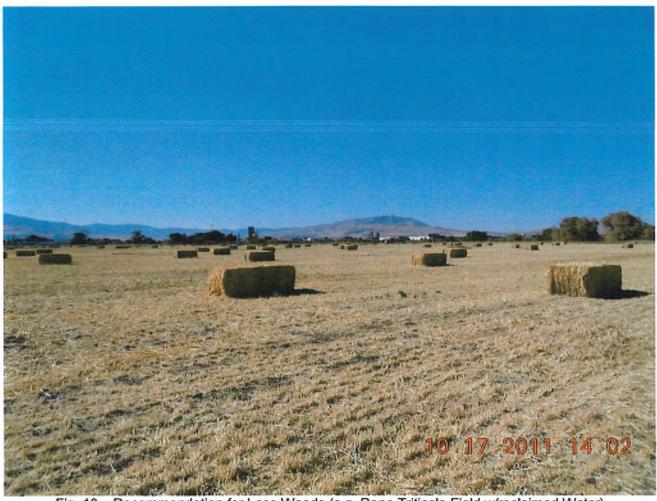


Fig. 18 - Recommendation for Less Weeds (e.g. Reno Triticale Field w/reclaimed Water)

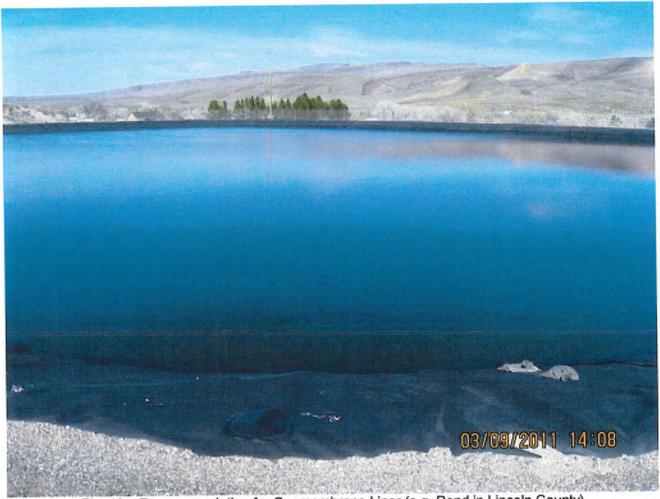


Fig. 19 - Recommendation for Geomembrane Liner (e.g. Pond in Lincoln County)



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STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor Leo M. Drozdoff, P.E., Director

Colleen Cripps, Ph.D., Administrator

DIVISION OF ENVIRONMENTAL PROTECTION

September 30, 2013

Carlos Esparza Director, City of Carlin Public Works P.O. Box 340 Carlin, NV 89822

RE: City of Carlin's Wastewater Treatment Plant Compliance Evaluation Inspection Permit No. NEV93001

Dear Mr. Esparza:

Enclosed for your review is the Nevada Division of Environmental Protection's (NDEP) compliance evaluation inspection report for Carlin's wastewater treatment facility that was performed on August 28, 2013. This inspection found the site well maintained.

In the report there are three items of follow-up that NDEP needs to have Carlin complete. These are items 1, 2, and 4 of the conclusion section of the report. Please submit a written response to these items by no later than <u>December 1, 2013</u>.

If you have any questions or comments about this report or the compliance item, please call me at (775) 687-9435.

Sincerely,

Joseph Maez, Supervisor, P.E.

Compliance and Technical Services Branch

Bureau of Water Pollution Control

Attachment: Report

CC/ with enclosure Ken Mallory, SPB Utilities, 430 Stoker Ave, Suite 207, Reno, NV 89503



COMPLIANCE INSPECTION REPORT

Nevada Division of Environmental Protection Bureau of Water Pollution Control

FACILITY PERMIT:

NS0093001

FACILITY TITLE:

City of Carlin WWTF

FACILITY DESCRIPTION:

Two Pond System

FACILITY LOCATION:

SE Limits of the City of Carlin, Elko County, NV

Pond #1 Inlet:

Latitude: 40° 42' 46"N, Longitude: 116° 6' 0"W

Elevation 4,895 ft. above sea level

DATE OF INSPECTION:

August 28, 2013

ATTENDEES:

Joseph Maez, P.E., NDEP

Nick Brothers, E.I. NDEP

Carlos Esparza, Carlin Public Works Director

DISCHARGE RATE:

0.46 MGD (June 2013)

PERMITTED QTY:

0.5 MGD 30-Day Average

0.9 MGD Daily Maximum

DATE OF REPORT:

September 27, 2013

DMR Review

The tables on the following page summarize the DMR data from July 2012 through June 2013. The data shows that the effluent flow rate had not been reported until the last 3 months. This was due to a lengthy delay in getting the effluent mag meter repaired. Secondly, the influent flow rate exceeded the 85% of the flow limit of the permit the last two months of the second quarter DMR's. Pursuant to Part III.A.2 of the permit, Carlin must undertake steps to discuss the steps what it will take to prevent the discharge from exceeding the permitted limits. These high flows are currently under investigation, but based on the effluent meter readings, there may be an error on the influent flow meter.

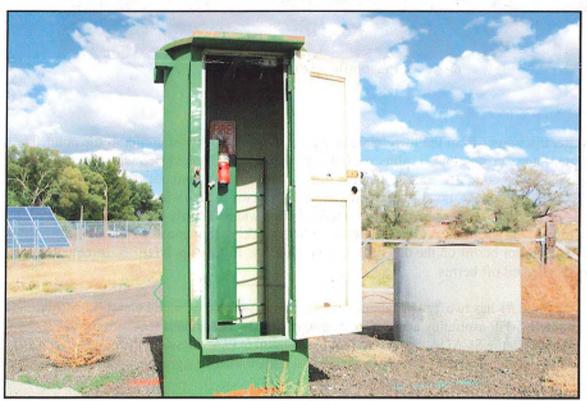
Effluent CBOD was met in 10 of the last 12 months, with slight exceedances noted in February of this year and October of last year. Overall the effluent values reported over the last 12 months reflects a properly operating pond system over all four seasons.

INSPECTION WALKTHROUGH

Carlos Esparza showed NDEP around the treatment system and the evaporation pond. Carlin has two influent lift stations. There is a new lift station in Carlin's industrial park that is approximately three years old and an older lift station is located at 4th Street and Oak Street, as shown in Attachment 2. The older lift station that NDEP visited has a dry well for the pumps and controls and a wet well that receives the influent from the residential area. The wet well is accessible by the operators and includes a coarse bar screen for removal of large objects. The dry pit is more than 15 feet below grade and is accessible via a motorized lift. The two 15-HP influent pumps are automated to a bubbler level sensor. An 8-inch diameter effluent force main goes 3,400 feet from the lift station to the treatment ponds. NDEP's inspection of the lift station showed that it is well-maintained, clean and the doors and access lids were locked.

A diesel generator will automatically supply power during a prolonged power outage. This generator is housed inside of a wood frame building, as are the station power controls and flow meter readout. The influent flow rate is recorded via a mag meter located at the main lift station.

A preliminary engineering report is being prepared by a consultant to evaluate the replacement options for this old Smith and Loveless™ Lift Station. NDEP will receive a copy of the final PER and subsequent design plans on the selected new lift station option that Carlin chooses.



Main Plant Lift Station



Bank vegetation at first Pond

Pond #2 is roughly 8.4 acres in area with a volume of 11 million gallons. The effluent from the final cell had good color attachment 2. This last cell is facultative, without mechanical aeration. Some vegetation was noted on the interior berm of the pond, but it was not excessive. Both treatment ponds were operating at the maximum water level, with about 3 feet of freeboard. Due to concerns about kids playing on the iced-over pond during the winter, Carlin installed a 6-foot high chain link fence around the ponds. This fence is posted with notification signs and is well constructed.



Final Pond Effluent



Effluent Holding Pond at Carlin WWTP

CONCLUSIONS AND FOLLOW-UP

NDEP appreciates the site tour provided by Mr. Esparza on short notice. The fencing around the treatment ponds was completed very adeptly. We are in full support of the City's plans to address upgrading its plant lift station and look forward to reviewing the plan submittal in the near future.

Based upon this year's site inspection, the Division had the following items for follow-up that are required by <u>December 1, 2013</u>:

1. Weed Removal:

Please include photos by December 1, 2013 that demonstrate the vegetation around Pond 1 has been removed.

The vegetation on the interior berms needs to be removed to prevent root intrusion into the berm and to prevent dead zones in the treatment ponds. Herbicides can be used to help control vegetation once they have been burned down. Please note that any holes that are created from the removal of this vegetation should be resealed with a compacted clayey soil mixture. Some herbicides to consider include ClearcastTM, ArsenalTM, and PolarisTM. Follow the label direction and note the limits on irrigation use of the water for the last two products.

<u>City of Carlin</u> Public Works Department

310 Oak Street, PO Box 340 Carlin, NV 89822 Phone 775-754-6515 Fax 775-754-6253

publicworks@explorecarlinnv.com

The City of Carlin is an equal opportunity provider and employer.

November 13, 2013

Joseph Maez Supervisor, P.E. Compliance and Technical Services Branch Bureau of Water Pollution Control

RE: Written response to Wastewater Treatment Plant Inspection Permit No. NEV93001

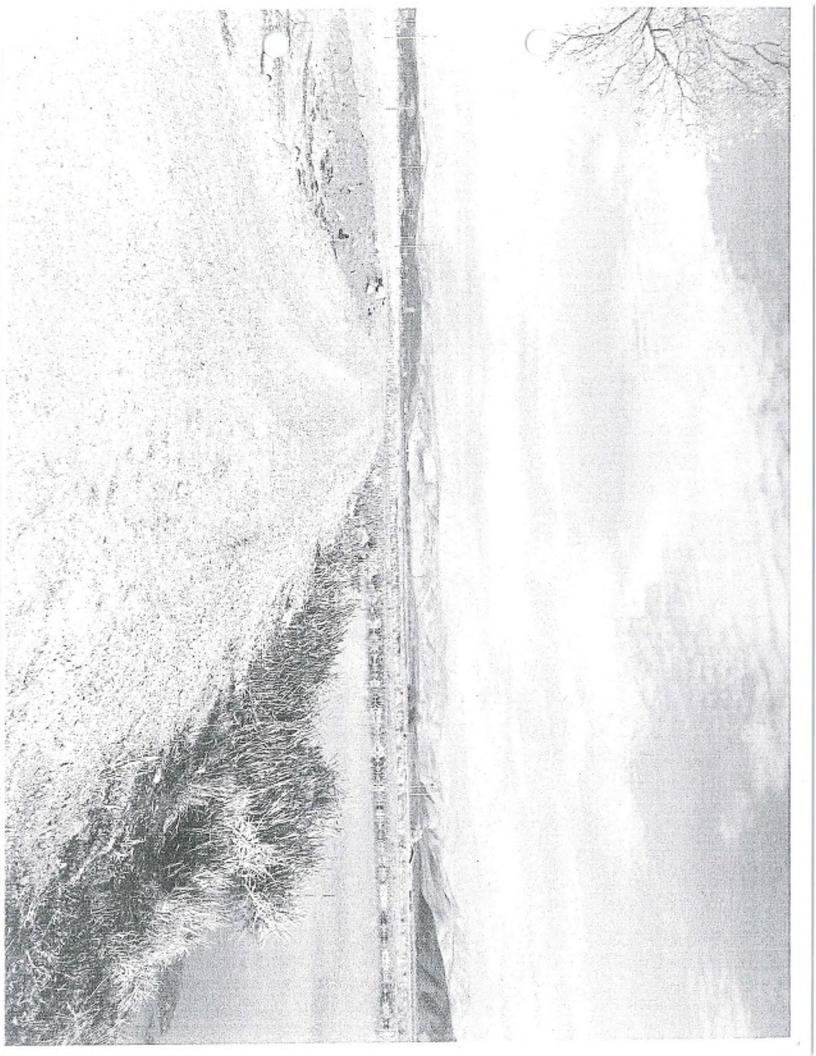
Dear Mr. Maez:

We have addressed the three items that you were concerned about. Item one was the vegetation around the ponds, We have been working diligently to correct this. Enclosed you will find photos of what we have completed thus far. We will continue to work on this. Item two has been researched by our staff and we were unable to explain the overages. We have forwarded all information to the City Engineer for further examination and as of the date of this letter he is still working on it. His contact information if you would like to follow up on this with him is, Tom Ballew (High Desert Engineering) 775-738-4083. Item four we have enclosed a map of locations of monitoring wells. If I can be of further assistance to you please do not hesitate to call.

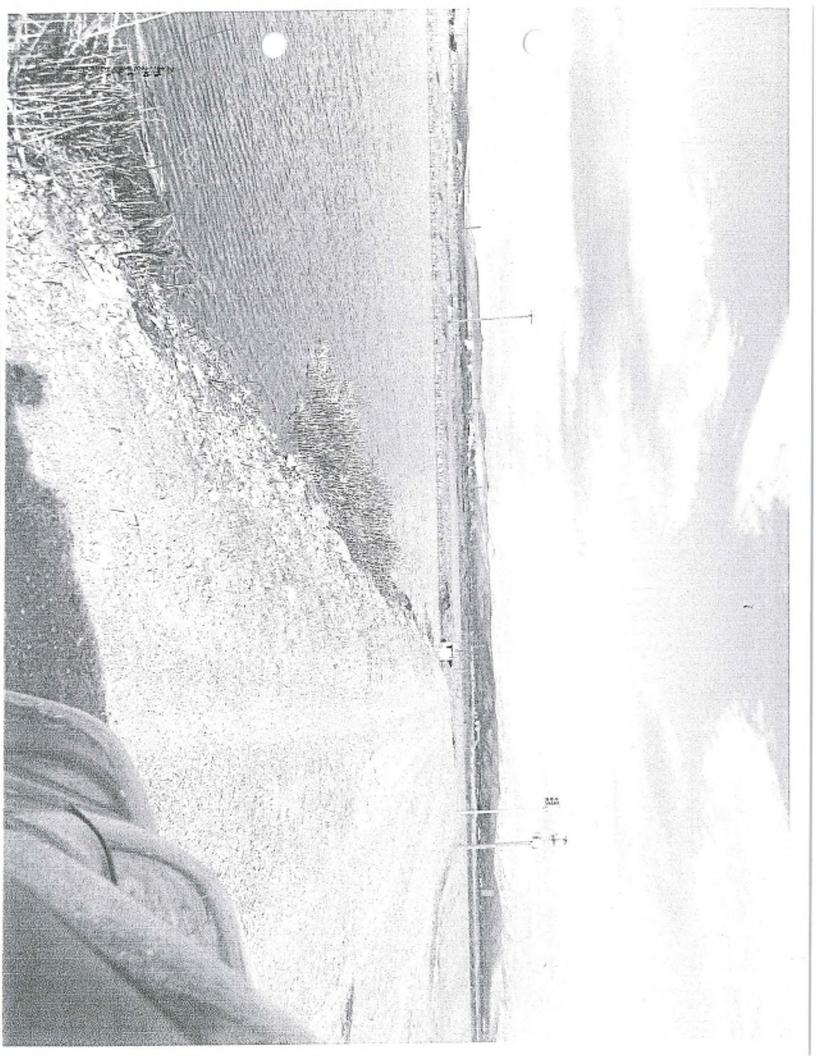
Thank You for your time

Carlos A Esparza City of Carlin

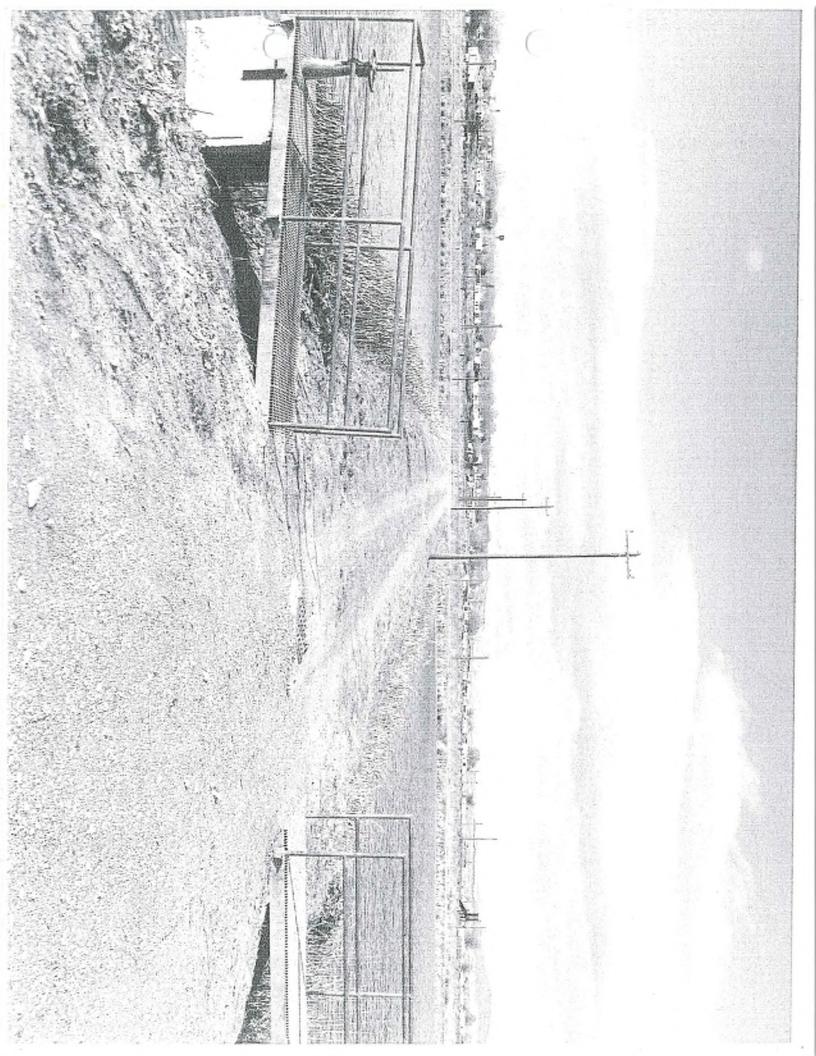
Director of Public Works

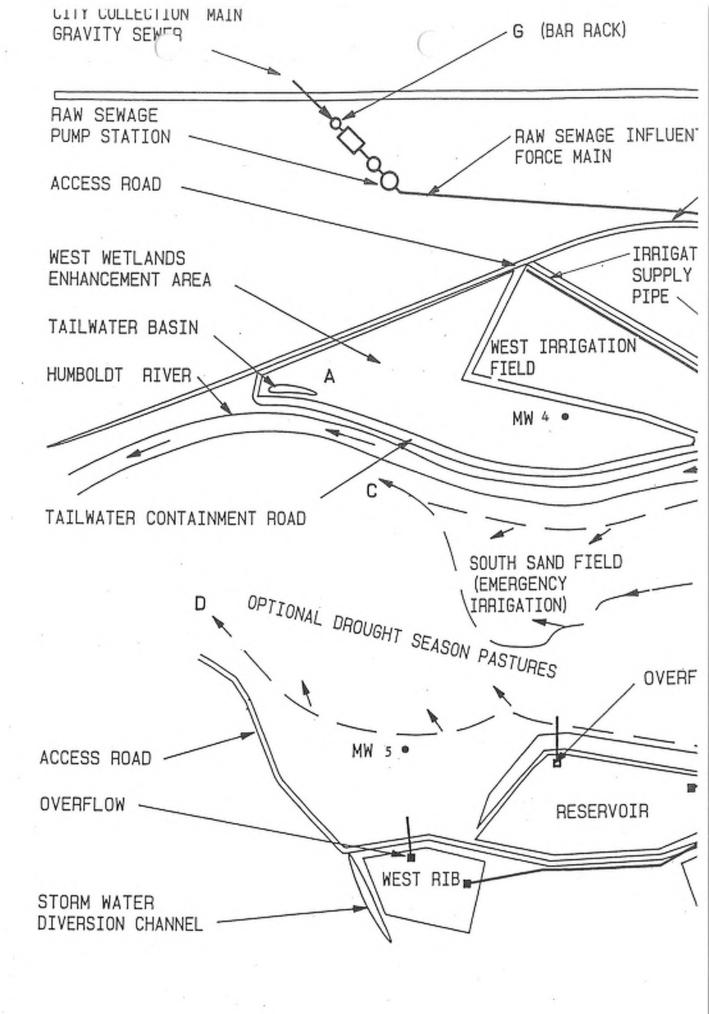


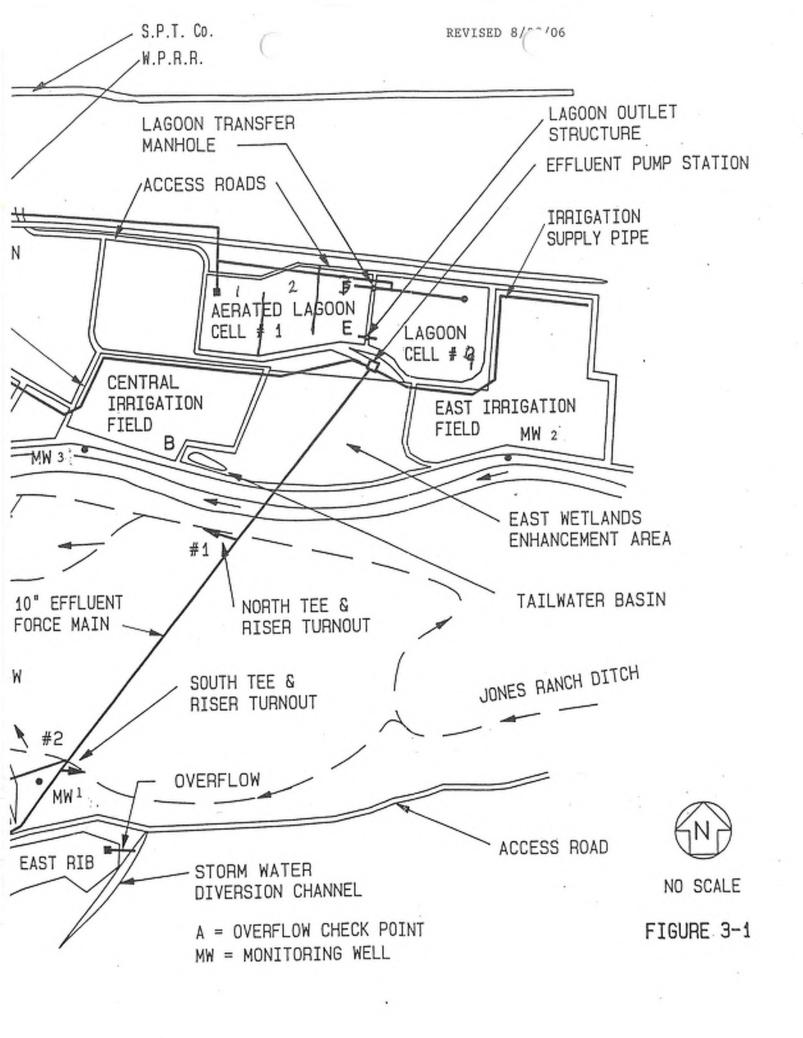












Description

Low Hazard Dams

Details

NATID

NV10712

STATEID

J-291

DAMNAME

CARLIN WW WEST RIB

COUNTY

ELKO

FORMERNAME

CARLIN WW POND

LATITUDE

40.70153

LONGITUDE

-116.10366

LEGAL

049 N33 E52 35BD





Description

Low Hazard Dams

Details

NATID

NV10231

STATEID

J-291

DAMNAME CARLIN WW STORAGE POND

COUNTY

ELKO

FORMERNAME

CARLIN WW POND

LATITUDE

40.70351

LONGITUDE

-116.10235

049 N33 E52 35BD



CARLIN WW EAST RIB

Description

Low Hazard Dams

Details

NATID

NV10713

STATEID

J-291

DAMNAME

CARLIN WW EAST RIB

COUNTY

ELKO

FORMERNAME

CARLIN WW POND

LATITUDE

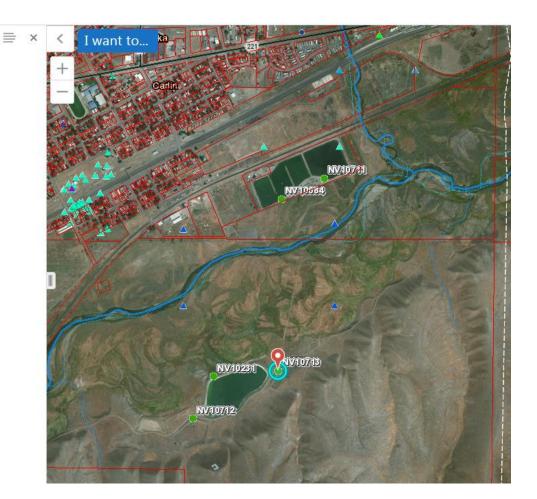
40.70379

LONGITUDE

-116.09833

LEGAL

049 N33 E52 35BD





Description

Low Hazard Dams

Details

NATID

NV10684

STATEID

J-291 DAMNAME

CARLIN WWTP TREATMENT LAGOON CELL 1

COUNTY

ELKO

FORMERNAME

N/A

LATITUDE

40.71188

LONGITUDE

-116.09812

LEGAL

049 N33 E52 26CD



CARLIN WWTP TREATMENT L... \equiv ×

Description

Low Hazard Dams

Details

NATID

NV10711

STATEID

J-291

DAMNAME

CARLIN WWTP TREATMENT LAGOON CELL2

COUNTY

ELKO

FORMERNAME

N/A

LATITUDE

40.71287

LONGITUDE

-116.09547

LEGAL

049 N33 E52 26CD



APPENDIX D

PUMP INFORMATION



City of Carlin Public Works Department

810 Oak Street, PO Box 340 Carlin, NV 89822

Phone 775-754-6515 Fax 775-754-6253

publicworks@explorecarlinnv.com

The City of Carlin is an equal opportunity provider and employer.

October 12, 2017

Main sewer lift station Smith & Loveless Two (2) M# 4B2A pumps with 15 HP- 1800 RPM 208 VOLT 3PH 1 CW and 1 CCW Impellers trimmed 9-3/8 for 640 GPM @ 66' TDH

Industrial lift station Flygt Two (2) M# M 3085 pumps 4HP 3430 RPM 460 Volt 3ph

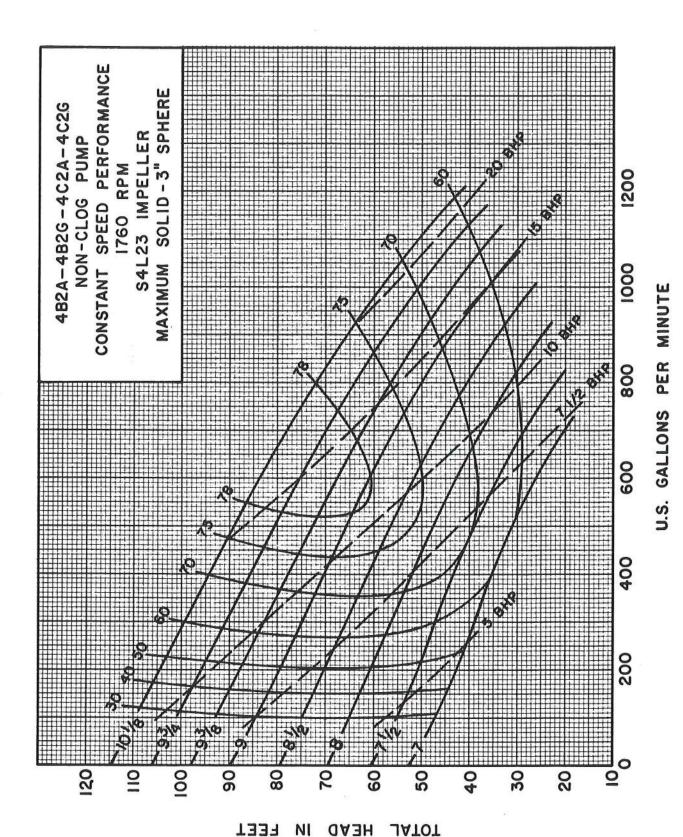
Effluent pump station Fairbanks Morse Two (2) M# 4" B5432CLV Pumps 20 HP 1770 RPM 460 VOLT GPM 900 TDH 62

Sincerely,

Carlos A Esparza Director of Public works

Pump Performance Curves Constant Speed 4B2A/4B2G - 4C2A/4C2G 1760 RPM October, 1985

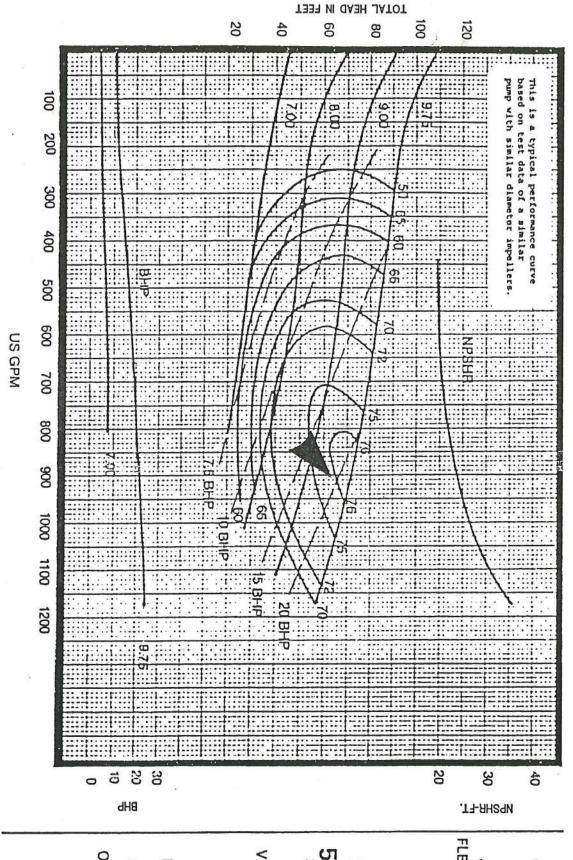
14040 W. Santa Fe Trail Dr. Lenexa, Kansas 66215



FLY	GT	PER	RFORM	/ANCE	CU	RVE	=		PROD		5.89	91	TY.
DATE PROJECT 2008-09-17 CITY OF CARLIN 9-17-08					CURVE NO 63-259-00-2360		188						
2000-	1/1-LOAD 3/4-LOAD 1/2-LOAD RATED					-	LER DIA						
POWER F	ACTOR	0.92	0.90	0.85	POWER	NG	4	hp		150 n	11-0-71		
EFFICIEN	ICY 83.0 % 84.0 % 83.0 % CURRENT 32		Α	МОТО	r#)9-2AL		TATOR	RE					
MOTOR DATA COMMENTS			INLET	OUTLET	CURRE RATED		4.9	Α	FREQ.			OLTAGE	R 1
			-/1.	5 inch	SPEED TOT.MO	M.OF	3430	rpm	60 F			60 V	2
			IMP. T	HROUGHLET	NO. OF		6		GEAR	TYPE	1	RATIO	
594	03				BLADE	5	0						2290 270
[hp	p) [O INPUT POWER
4	5												1 P
238										<u> </u>	1		NPU.
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	2												1 11 11
	2												OVERALL EFF.
	<u> </u>												
1	DUTY-POINT	FLOW[USgp 51.1	om) HEAD[81.4	ft] POWE 4.41 (3	R [hp] 3.61)	EFF. [23.7 (PSHre[ft]	GUA	RANTEE			0 *
B.E	i.P.	46.3	88.8	(85 L20/20/1 %)	V.1733.601	24.4 (HI lev	el A			
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													PEST EEF BOINT
120	0												, u
			_ `										_ r
				\perp	777.		_						EF
100	0 +	_		+									[%]
			- 2						`		ă.		[70]
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OPERATING CONDITIONS: 900 GPM ΑT 62 FT. TDH



MAX. SPHERE 3"

OTHER: 4" OR 6" SUCTION SIZE 5422CLV: 4" IMPELLER T4B1A

NO. OF VANES

5442
VERTICAL CLOSE
COUPLED

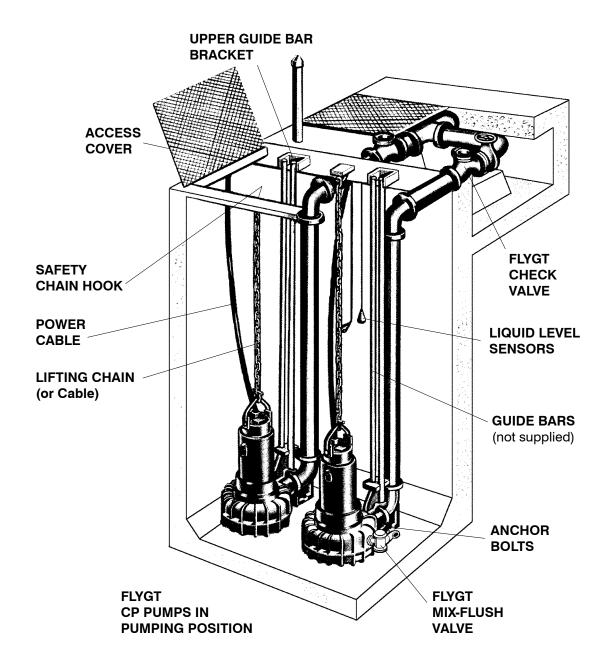
5432 VERTICAL BILTOGETHER

5422 HORIZONTAL

5412
VERTICAL FOR FLEXIBLE SHAFTING



Typical Flygt Duplex "CP" Pump Station



APPENDIX E

DAILY MONITORING REPORTS

			E	ffluent Pu	mp Station	1				
			Sun	nmary for <i>i</i>	AUGUST 20)17				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	o }
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
8/1/2017	8:20 AM		5953944.0	08086.8	30168.6		ON			
8/7/2017	10:05 AM		5953944.6	08086.8	30168.6		ON			
8/9/2017	8:20 AM		5953944.9	08086.8	30168.6		ON			
8/10/2017	11:00AM		5953945.3	08086.8	30168.6		ON			
8/14/2017	10:05 AM		5953945.4	08086.8	30168.6		ON			
8/16/2017	8:20AM		5953945 .6	08086.8	30168.6		ON			
8/17/2017	8:30 AM		5953950.9	08086.8	30168.6		ON			
8/21/2017	8:15 AM		5953952.2	08086.8	30168.6		ON			
8/22/2017	8:15 AM		5953952.3	08086.8	30168.6		ON			
8/23/2017	8:25 AM		5953953.1	08086.8	30168.6		ON			
8/28/2017	8:35 AM		5954219.8	08086.8	30168.6		ON			
8/29/2017	8:30 AM		5954259.3	08086.8	30168.6		ON			
8/30/2017	10:35 AM		5954339.9	8086.8	30168.6		ON			
8/30/2017	8:05 AM		5954356.5	08086.8	30168.6		ON			
			413							

				ffluent Pu						
				ummary fo	r JULY 201	7				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	o}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer		Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
7/3/2017	8:10 AM		5953794.4	08086.9	30168.6		ON			
7/5/2017	8:10 AM		5953803.4	08086.9	30168.6		ON			
7/6/2017	8:45 AM		5953803.4	08086.9	30168.6		ON			
7/7/2017	10:40 AM		5953803.8	08086.9	30168.6		ON			
7/10/2017	8:50 AM		5953806.7	08086.9	30168.6		ON			
7/11/2017	8:20 AM		5953808.1	08086.9	30168.6		ON			
7/12/2017	8:20 AM		5953808.8	08086.9	30168.6		ON			
7/13/2017	1:45 AM		5953823.1	08086.9	30168.6		ON			
7/14/2017	8:10 AM		5953826.0	08086.9	30168.6		ON			
7/17/2017	8:30 AM		5953870.6	08086.9	30168.6		ON			
7/18/2017	8:35 AM		5953871.4	08086.9	30168.6		ON			
7/19/2017	8:45 AM		5953876.4	08086.9	30168.6		ON			
7/20/2017	8:05 AM		595882.5	08086.9	30168.6		ON			
7/21/2017	8:20AM		5953893.6	08086.9	30168.6		ON			
7/24/2017	8:50 AM		5953941.8	08086.9	30168.6		ON			
7/25/2017	8:30 AM		5953942.6	08086.9	30168.6		ON			
7/26/2017	11:00 AM		5953943.6	08086.9	30168.6		ON			
7/27/2017	8:15 AM		5953943.9	08086.9	30168.6		ON			
7/28/2017	8:15 AM		5953 943.9	08086.9	30168.6		ON			
7/31/2017	8:25 AM		5953944.0	08086.9	30168.6		ON			
		5.34	150							

			E	ffluent Pu	mp Station	1				
			Si	ummary fo	r June 201	7				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Stop	}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
6/1/2017	8:15 AM		5949196.8	07999.3	30082.7		OFF	ON		

		35	1,038					
6/30/2017	8:10 AM		5950234.6	08020.1	30103.5	OFF	ON	
6/28/2017	8:00AM		5949249.3	07999.3	30082.7	OFF	ON	
6/26/2017	9:00AM		5949247.6	07999.3	30082.7	OFF	ON	
6/19/2017	8:35 AM		5949236.1	07999.3	30082.7	OFF	ON	
6/16/2017	8:10 AM		5949217.7	07999.3	30082.7	OFF	ON	
6/13/2017	8:25 AM		5949211.5	07999.3	30082.7	OFF	ON	
6/12/2017	8:55 AM		5949211.5	07999.3	30082.7	OFF	ON	
6/9/2017	8:25 AM		5949211.3	07999.3	30082.7	OFF	ON	
6/8/2017	8:35 AM		5949211.1	07999.3	30082.7	OFF	ON	
6/7/2017	1:35 AM		5949209.8	7999.3	30082.7	OFF	ON	
6/6/2017	9:10AM		5949208	07999.3	30082.7	OFF	ON	

				Effluent Pu	mp Station	1				
			Si	ummary fo	r MAY 201	7				
			Meter Readings	Pump	Hours		Routing		{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
5/1/2017	8:20 AM		5906279.6	07848.0	29931.6		OFF	ON		
5/2/2017	7:45 AM		5906279.6	07848.0	29931.6		OFF	ON		
5/3/2017	1:35 AM		5906279.6	07848.0	29931.6		OFF	ON		
5/4/2017	8:35 AM		5906279.6	07848.0	29931.6		OFF	ON		
5/5/2017	8:25 AM		5920792.0	07865.4	29949.0		OFF	ON		
5/8/2017	8:55 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/9/2017	8:25 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/10/2017	8:10 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/11/2017	8:35 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/12/2017	9:00 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/15/2017	8:00 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/17/2017	8:10 AM		5943829.3	7919.5	30003.1		OFF	ON		
5/18/2017	8:25 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/19/2017	8:35 AM		5943829.3	07919.5	30003.1		OFF	ON		
5/23/2017	8:20 AM		5947967.2	07980.4	30063.9		OFF	ON		
5/24/2017	8:25 AM		5949173.5	07999.3	30082.7		ON	OFF		
5/25/2017	8:20 AM		5949173.5	07999.3	30082.7		ON	OFF		
5/30/2017	8:25 AM		5949194.1	07999.3	30082.7		ON	OFF		
5/31/2017	8:50AM	1384	5949196.4	07999.3	30082.7		ON	OFF		
			42,917							

			E	ffluent Pu	mp Station	1				
			Si	ummary fo	r April 201	7				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Stop	1}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
4/3/2017	8:25 AM		5785917.6	07732.2	29815.8	ON				
4/4/2017	8:00 AM		5813 213.3	07755.8	29839.5	ON				
4/5/2017	8:00AM		5830902.1	07772.1	29855.7	ON				
4/6/2017	7:00 AM		5830902.1	07772.1	29855.7	ON				
4/7/2017	10 :35 AM		5834519.3	07776.1	29858.7	OFF		ON		
4/10/2017	9:50 AM		5839388.5	07779.3	29862.9	OFF		ON		
4/12/2017	8:10 AM		5839388.5	07779.3	29862.9	OFF		ON		
4/13/2017	7:44 AM		5839388.5	07779.3	29862.9	OFF		ON		
4/14/2017	8:15 AM		5839388.5	07779.3	29862.9	OFF		ON		
4/17/2017	8:30AM		5839388.5	07779.3	29862.9	OFF		ON		

		4814	120,362					
4/28/2017	8:15AM		5906279.6	07848.0	29931.6	OFF	ON	
4/27/2017	8:10AM		5906279.6	07848.0	29931.6	OFF	ON	
4/26/2017	8:30AM		5906279.6	07848.0	29931.6	OFF	ON	
4/24/2017	8:30 AM		5906279.6	07848.0	29931.6	OFF	ON	
4/21/2017	8:00AM		5885339.2	7830.2	29913.8	OFF	ON	
4/20/2017	8:10 AM		5854683.0	07806.5	29880	OFF	ON	
4/19/2017	7:55 AM		5840761	07782.1	29865.7	OFF	ON	
4/18/2017	8:05 AM		5839388.5	07779.3	29862.9	OFF	ON	

			E	ffluent Pu	mp Station	1				
			Su	mmary for	March 20:	17				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	o }
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
3/1/2017	7:50 AM		5549120.9	7528.2	29616.9	ON				
3/3/2017	8:00AM		5599132.1	7570.2	29658.9	ON				
3/6/2017	8:20 AM		5642933.0	7611.7	29695.5	ON				
3/7/2017	9:05 AM		5642933.0	7611.7	29695.5	ON				
3/8/2017	8:15 AM		5642933.0	7611.7	29695.5	ON				
3/9/2017	8:05 AM		5642933.0	7611.7	29695.5	ON				
3/10/2017	8:15 AM		5642933.0	7611.7	29695.5	ON				
3/13/2017	8:55 AM		5642933.0	7611.7	29695.5	ON				
3/14/2017	8:10AM		5642933.0	7611.7	29695.5	ON				
3/15/2017	8:00 AM		5642933.0	7611.7	29695.5	ON				
3/16/2017	8:00AM		5642933.0	7611.7	29695.5	ON				
3/17/2017	8:00 AM		5649331.0	7616.8	29700.6	ON				
3/20/2017	8:15 AM		5733066.7	7689.1	29772.8	ON				
3/21/2017	8:10AM		5737258.3	7693.0	29776.7	ON				
3/22/2017	10:45 AM		5737258.3	7693.0	29776.7	ON				
3/23/2017	8:15AM		5737258.3	7693.0	29776.7	ON				
3/24/2017	8:00AM		5737258.3	7693.0	29776.7	ON				
3/30/2017	7:20AM		5737258.3	7693.0	29776.7	ON				
		6271	188,137							

				Effluent Pu	mp Station	1				
			Sur	nmary for I	February 2	017				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
2/1/2017	8:05 AM		5382720.1	7372.8	29461.6	ON				
2/3/2017	8:40 AM		5400987.8	7389.9	294787	ON				
2/6/2017	8:15 AM		5400987.8	7389.9	294787	ON				
2/7/2017	8:05 AM		5400987.8	7389.9	294787	ON				
2/8/2017	8:40AM		5400987.8	7389.9	294787	ON				
2/9/2017	8:50AM		5400987.8	7389.9	294787	ON				
2/10/2017	8:20 AM		5406565.5	7394.5	29483.3	ON				
2/13/2017	7:20 AM		5485146	7465.6	29483.3	ON				
2/14/2017	8:40 AM		5511268.9	7490.9	29579.6	ON				
2/17/2017	8:10 AM		5549120.9	75282	29616.9	ON				
2/21/2017	8:10 AM		5549120.9	75282	29616.9	ON				
2/22/2017	10:45 AM		5549120.9	75282	29616.9	ON				
2/23/2017	8:25 AM		5549120.9	75282	29616.9	ON				
2/24/2017	8:15 AM		5549120.9	75282	29616.9	ON				

2/28/2017	9:00 AM	5549120.9 166,401	75282	29616.9	ON		
, , -	8:15 AM	5549120.9	75282		ON		

		_		ffluent Pu	mp Station)				
			Sui	mmary for	January 20	17				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
1/3/2017	8:30		5135638.4	7158.4	29265.9	ON				
1/4/2017	8:35		5135638.4	7158.4	29265.9	ON				
1/6/2017	8:35		5174169.5	7191	29283.8	ON				
1/10/2017	7:45		5223043.7	7234.5	29327.2	ON				
1/11/2017	8:15		5223043.7	7234.5	29327.2	ON				
1/13/2017	8:00		5223043.7	7234.5	29327.2	ON				
1/17/2017	8:25		5245265.1	7252.4	29345.2	ON				
1/18/2017	8:10		5272793.5	7276.8	29369	ON				
1/19/2017	8:05		5299293.5	7300.1	29392.9	ON				
1/20/2017	8:05		5306150.9	7306.5	29395.3	ON				
1/25/2017	8:40		5306150.9	7306.5	29395.3	ON				
1/26/2017	8:20		5306150.9	7306.5	29395.3	ON				
1/27/2017	8:20		5306150.9	7306.5	29395.3	ON				
1/30/2017	8:45		5329298.9	7325.3	29414.1	ON				
1/31/2017	8:10		5356598	7348.9	29437.7	ON				
		7891	220,960							

				Effluent Pu	mp Station	1				
			Sum	mary for D	ecember 2	016				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
12/1/2016	8:35		49625651	7001.6	29109.2	ON				
12/2/2016	8:30		49625651	7001.6	29022.3	ON				
12/5/2016	8:20		49625651	7001.6	29022.3	ON				
12/6/2016	2:30		49625651	7001.6	29022.3	ON				
12/7/2016	8:15		49625651	7001.6	29022.3	ON				
12/8/2016	2:40		49625651	7001.6	29022.3	ON				
12/9/2016	2:25		49625651	7001.6	29022.3	ON				
12/13/2016	8:30		50449205	7077	29184.8	ON				
12/14/2016	8:20		50516139	7083.4	29191.1	ON				
12/15/2016	10:15		50516139	7083.4	29191.1	ON				
12/16/2016	8:20		50516139	7083.4	29191.1	ON				
12/19/2016	9:30		50516139	7083.4	29191.1	ON				
12/20/2016	8:25		50516139	7083.4	29191.1	ON				
12/21/2016	8:10		50516139	7083.4	29191.1	ON				
12/22/2016	9:50		50516139	7083.4	29191.1	ON				
12/23/2016	8:25		50516139	7083.4	29191.1	ON				
12/27/2016	8:30		51356384	7158.4	29265.9	ON				
12/28/2016	9:30		51356384	7158.4	29265.9	ON				
12/30/2016	8:15		51356384	7158.4	29265.9	ON				
		57691	1,730,733							

Effluent Pump Station	
Summary for November 2016	

			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
11/1/2016	8:15		48927221	6914.7	29022.3			ON		
11/2/2016	8:35		48940831	6914.7	29022.3			ON		
11/3/2016	11:20		48955823	6914.7	29022.3			ON		
11/9/2016	3:00		49043573	6914.7	29022.3			ON		
11/10/2016	8:20		49054517	6914.7	29022.3			ON		
11/15/2016	8:15		49131176	6914.7	29022.3			ON		
11/16/2016	1:10		49149859	6914.7	29022.3			ON		
11/17/2016	8:15		49161844	6914.7	29022.3			ON		
11/21/2016	10:25		49226127	6914.7	29022.3			ON		
11/22/2016	8:00		49241156	6914.7	29022.3			ON		
11/23/2016	8:00		49314370	6914.7	29038.9			ON		
11/28/2016	8:30		49625615	7001.6	29109.2		ON	OFF		
11/29/2016	8:20		49625615	7001.6	29109.2		ON	OFF		
11/30/2016	7:55		49625615	7001.6	29109.2		ON	OFF		
		23280	698,394							

				Effluent Pu	mp Station	1				
			Sui	mmary for	October 20)16				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
10/6/2016	11:35		47792659	6812	28919.7		ON			
10/11/2016	8:35		47831284	6812	28919.7		ON			
10/12/2016	7:50		47838463	6812	28919.7		ON			
10/13/2016	8:30		47853687	6812	28919.7		ON			
10/14/2016	8:40		47869017	6812	28919.7		ON			
10/17/2016	8:35		48056203	6828.2	28935.8		ON			
10/19/2016	10:50		48472751	6878.4	28986		ON			
10/20/2016	8:10		48671175	6899.8	29007.4		ON			
10/24/2016	10:50		48833878	6914.7	29022.3		ON			
10/25/2016	8:10		48842527	6914.7	29022.3		ON			
10/27/2016	8:10		48864052	6914.7	29022.3		ON			
10/31/2016	8:45		48914193	6914.7	29022.3		ON			
		43136	1,121,534							

				Effluent Pu	mp Station	1				
			Sum	mary for Se	eptember	2016				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	p}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
9/6/2016	8:20		47531363	6812	28919.7		On			
9/7/2016	8:20		47534060	6812	28919.7		On			
9/8/2016	8:00		47538625	6812	28919.7		On			
9/9/2016	8:25		47542675	6812	28919.7		On			
9/12/2016	8:25		47551935	6812	28919.7		On			
9/15/2016	9:20		47579803	6812	28919.7		On			
9/16/2016	2:40		47592830	6812	28919.7		On			
9/19/2016	10:30		47623552	6812	28919.7		On			
9/21/2016	8:05		47641706	6812	28919.7		On			
9/22/2016	8:05		47651380	6812	28919.7		On			
9/23/2016	8:15		47661146	6812	28919.7		On			

		8281	207,022					
9/30/2016	8:30		47738385	6812	28919.7	On		
9/29/2016	3:10		47730087	6812	28919.7	On		
9/27/2016	8:25		47702854	6812	28919.7	On		
9/26/2016	8:15		47691622	6812	28919.7	On		

			E	ffluent Pu	mp Station	1				
			Su	mmary for	August 20	16				
			Meter Readings	Pump	Hours		Routing	of Effluent	{Start/Sto	o}
		Pond				Lagoons	Lagoons	Lagoons	Lagoons	Reservoir
DATE	Time	Level (ft)	Totalizer	Pump #1	Pump #2	to Res	to Field	to W RIB	to E RIB	to Fields
8/1/2016	9:30		47418292	6812	28919.7		ON			
8/3/2016	9:00		47418292	6812	28919.7		ON			
8/8/2016	8:45		47418293	6812	28919.7		ON			
8/9/2016	8:20		47418300	6812	28919.7		ON			
8/10/2016	8:15		47418304	6812	28919.7		ON			
8/11/2016	8:15		47418309	6812	28919.7		ON			
8/12/2016	10:10		47418329	6812	28919.7		ON			
8/16/2016	11:10		47418375	6812	28919.7		ON			
8/17/2016	8:50		47418396	6812	28919.7		ON			
8/22/2016	8:30		47429353	6812	28919.7		ON			
8/23/2016	7:55		47435403	6812	28919.7		ON			
8/24/2016	2:00		47443318	6812	28919.7		ON			
8/25/2016	8:10		47449464	6812	28919.7		ON			
8/26/2016	8:05		47459377	6812	28919.7		ON			
8/29/2016	8:40		47487651	6812	28919.7		ON			
8/30/2016	8:00		47496400	6812	28919.7		ON			
8/31/2016	8:00		47504951	6812	28919.7		ON			
		2795	86,659							

Carlin Public Works Influent Report

City ofCarlin, Nevada

Compilation of Data Raw (Influent) Pump Station Corrected for Meter Error

PUMP 1 FLOW: PUMP 2 FLOW:

708 598

GPM GPM BLACK COLUMNS REQUIRE DATA ENTRY RED COLUMNS ARE SELF-CALCULATING

ATE	DAYS	HOUR READINGS		PUMPING HO	JRS		METER	METER	CORR.	METER	CORR.	PUMP	
UGUST 2017		PUMP 1	PUMP 2	PUMP 1	PUMP 2	TOTAL	READINGS	VOLUME	VOLUME	FLOW	FLOW	FLOW	CHNG
AST READINGS	500 DOD!!	(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(GAL/100)	(GAL/100)	(GAL/100)	(MGD)	(MGD)	(GPM)	(%)
7/31/2017	PORPIGEVI											etter-la	11.5
110112011	1	11173.9	9700.7				349,701						
8/1/2017	- 1	4447777		3,80	4.20	8.00	100000000000000000000000000000000000000	3,498	3,121	0.35	0.31	729	10.8%
0/1/2017	3	11177.7	09704.9				353,199						
8/4/2017		11189.5	09718.3	11.80	13.40	25.20		10,998	9,821	0.37	0.33	727	10.7%
0.412017	3	11100.0	097 10,3	11.90	49.00		364,197						
8/7/2017		11201.4	09731.3	11.90	13.00	24.90	075.040	11046	9,720	0.37	0.32	739	12.0%
	2		00101.0	7.20	8.60	15.80	375,243	6756					
8/9/2017		11208,6	09739.9	1.20	0.00	15,60	382,002	6759	6,144	0.34	0.31	713	9,1%
	1		00700.0	4.30	4.80	9.10	302,002	3933	2.540				2.270
8/10/2017		11212.9	09744.7	4.00	4.00	0.10	385,935	3933	3,549	0.39	0.35	720	9.8%
	4		***************************************	15.00	17.00	32.00	360,033	13938	12,472	0.05			
8/14/2017		11227.9	09761.7	1515	41,00	32.00	399,873	13330	12,412	0.35	0.31	726	10.5%
	2			7.10	8.80	15.90	000,010	7179	6,174	0.36	0.31	250	
8/16/2017		11235.0	09770,5				407,052		0,114	0.30	0.31	753	14.0%
	1			9.30	9.90	19.20		8,023	7,503	0.80	0.75	696	6.5%
8/17/2017		11244.3	09780.4				415,075	0,020	,,,,,,	0.00	0.15	696	0.5%
	4			11.90	13.80	25.70		10,969	10.007	0.27	0.25	711	8.8%
8/21/2017		11256.2	09794.2				426,044			0.21	0.20	721	0.038
	1			3.90	4.40	8.30		3541	3,235	0.35	0.32	711	8.6%
8/22/2017		11260.1	09798.6				429,585						0.070
0.000,000,47	1			4.20	4.80	9.00		3836	3,506	0.38	0.35	710	8.6%
8/23/2017	-	11284,3	09803.4				433,421						
8/28/2017	5	******		19.10	22.00	41.10		17590	16,007	0.35	0.32	713	9.0%
0/28/2017		11283.4	09825.4				451,011						
8/29/2017	-	11287.1	00000 7	3.70	4.30	8.00		3416	3,115	0.34	0.31	712	8.8%
012012011	1	11207.1	09829.7	4.40			454,427						
8/30/2017		11291.2	09834.4	4.10	4.70	8.80		3814	3,428	0.38	0.34	722	10.1%
0.00.2011	1	11201.2	09634,4	3.40	3.80	7.00	458,241	****	2222				
8/31/2017	-	11294.6	09838.2	3.40	3.00	7.20	454.057	3116	2,808	0.31	0.28	721	9.9%
		11607.0	00000.2				461,357						

Average

0.345

City ofCarlin, Nevada

Compilation of Data Raw (Influent) Pump Station

Corrected for Meter Error

PUMP 1 FLOW: PUMP 2 FLOW: 708 GPM 598 GPM BLACK COLUMNS REQUIRE DATA ENTRY RED COLUMNS ARE SELF-CALCULATING

PUMP 2 (HRS) 2 (HRS) 3 9552.8 4 9563.8 1 9579.2 2 9594.2 0 9599.5 0 9603.9 9 9000.4 1 9613.3 5 9622.9	PUMP 1 (HRS) 13.10 8.70 4.10 4.80 12.00 3.90 4.20 8.40	9UMP 2 (HRS) 15.00 10.40 5.00 5.30 14.40 4.50	29.10 19.10 9.10 10.10 26.40 8.40 9.10	READINGS (GAL/100) 228,256 241,415 249,944 253,925 258,550 270,299 274,131	VOLUME (GAL/100) 13,159 8,529 2981 4625 11749 3832	CORR. VOLUME (GAL/100) 11,306 7,427 3,536 3,941 10,264	0.44 0.43 0.40 0.46 0.39	0.38 0.37 0.35 0.39	754 744 729 763	CHNG (%) 14.1% 12.9% 11.2% 14.8%
9552.8 4 9563.8 1 9570.2 2 9594.2 0 9592.5 0 9603.9 9 9600.4 1 9613.3	13.10 8.70 4.10 4.80 12.00 3.90 4.20	15.00 10.40 5.00 5.30 14.40 4.50	29.10 19.10 9.10 10.10 26.40 8.40	(SAL/100) 228,256 241,415 249,944 253,925 258,550 270,299	(GAL/100) 13,159 8,529 3991 4625 11749	(GAL/100) 11,306 7,427 3,536 3,941	0.44 0.43 0.40 0.46	0.38 0.37 0.35 0.39	754 744 729 763	(%) 14,1% 12,9% 11,2% 14,8%
3 9562.8 4 9563.8 1 9579.2 2 9584.2 0 9589.5 0 9603.9 9 9600.4 1 9613.3	8.70 4.10 4.80 12.00 3.90 4.20	5.00 5.00 5.30 14.40 4.50 4.90	29.10 19.10 9.10 10.10 26.40 8.40	228,256 241,415 249,944 253,925 258,550 270,299	13,159 8,529 3991 4625 11749	11,306 7,427 3,536 3,941	0.44 0.43 0.40 0.46	0.38 0.37 0.35 0.39	754 744 729 763	14,1% 12,9% 11,2% 14,8%
4 9563.8 1 9570.2 2 9594.2 0 9593.5 0 9603.9 9 9600.4	8.70 4.10 4.80 12.00 3.90 4.20	5.00 5.00 5.30 14.40 4.50 4.90	19.10 9.10 10.10 26.40 8.40	241,415 249,944 253,925 258,550 270,299	8,529 3981 4625 11749	7,427 3,536 3,941	0.43 0.40 0.46	0.37 0.35 0.39	744 729 763	12.9% 11.2% 14.8%
1 9570.2 2 9594.2 0 9599.5 0 9603.9 9 9600.4	8.70 4.10 4.80 12.00 3.90 4.20	5.00 5.00 5.30 14.40 4.50 4.90	19.10 9.10 10.10 26.40 8.40	240,944 253,925 258,550 270,299	8,529 3981 4625 11749	7,427 3,536 3,941	0.43 0.40 0.46	0.37 0.35 0.39	744 729 763	12.9% 11.2% 14.8%
1 9570.2 2 9594.2 0 9599.5 0 9603.9 9 9600.4	4.10 4.80 12.00 3.90 4.20	5.00 5.30 14.40 4.50 4.90	19.10 9.10 10.10 26.40 8.40	240,944 253,925 258,550 270,299	8,529 3981 4625 11749	7,427 3,536 3,941	0.43 0.40 0.46	0.37 0.35 0.39	744 729 763	12.9% 11.2% 14.8%
2 9594.2 0 9599.5 0 9603.9 9 9600.4 1 9613.3	4.10 4.80 12.00 3.90 4.20	5.00 5.30 14.40 4.50 4.90	9.10 10.10 26.40 8.40	240,944 253,925 258,550 270,299	3981 4625 11749	3,536 3,941	0.40	0.35	729 763	11.2% 14.8%
2 9594.2 0 9599.5 0 9603.9 9 9600.4 1 9613.3	4.80 12.00 3.90 4.20	5.30 14.40 4.50 4.90	9.10 10.10 26.40 8.40	253,925 258,550 270,299	3981 4625 11749	3,536 3,941	0.40	0.35	729 763	11.2% 14.8%
0 9599,5 0 9603,9 9 9608,4 1 9613,3	4.80 12.00 3.90 4.20	5.30 14.40 4.50 4.90	10.10 26.40 8.40	253,925 258,550 270,299	4625 11749	3,941	0.46	0.39	763	14,0%
0 9599,5 0 9603,9 9 9608,4 1 9613,3	12.00 3.90 4.20	14.40 4.50 4.90	10.10 26.40 8.40	258,550 270,299	4625 11749	3,941	0.46	0.39	763	14,0%
9603.9 9 9603.4 1 9613.3	12.00 3.90 4.20	14.40 4.50 4.90	26.40 8.40	258,550 270,299	11749					
9603.9 9 9603.4 1 9613.3	3.90 4.20	4.50 4.90	8.40	270,299	11749					
9 9600.4 1 9613.3	3.90 4.20	4.50 4.90	8.40	270,299		10,264	0.39	0.34	742	
9 9600.4 1 9613.3	4.20	4.90			2022					12.6%
1 9613.3	4.20	4.90		274 131	2022					12,000
1 9613.3			0.10	274 121	3034	3.271	0.38	0.33	760	14.6%
			0.10	2170,1411		-517.7				14.414
	8.40		9.10		4070	3.542	0.41	0.35	745	13.0%
5 9622.9	8.40			278,201					140	10.010
5 9622.9		9.60	18,00		8,056	7,013	0.40	0.35	746	12,9%
				286,257						16.000
	12.50	14.40	26.90		11,323	10,477	0.38	0.35	702	7.5%
9637,3				297,500						1.01
	4.00	4.50	8.50		3808	3,314	0.38	0.22	747	13.0%
9641,8				301,388						10.010
	4.00	4.70	8.70		3890	3,386	0.39	0.34	745	13.0%
0 9646.5				305,278						18.070
	4.30	4.60	8.90		3924	3,477	0.39	0.35	735	11.4%
9651,1				309,202					-	
	4.60	5.10	9.70		3606	3,784	0.36	0.38	620	-4,9%
9 9656.2				312,808						
	12.00	13.80	25.80		11528	10,049	0.38	0.33	745	12.8%
9 9670.0				324,336						
	3.90	4.60	8.50		3788	3,307	0.38	0.33	743	12.7%
9674.6				328,124						
	4,40	5.00	9.40		4135	3,663	0.41	0.37	733	11.4%
2 9679,6				332,259						
	3.60	4.00	7.60		3298	2,964	0.11	0.50	723	10.1%
9683.6				335,557						
	3.80	4.40	8.20		3657	3,193	0.12	0.50	743	12.7%
9688.0				339,214						
	11,30	12.70	24.00		10487	9,357	0.35	0.31	728	10.8%
9700,7				349,701						
								Average	0.366	
	8. 9883.6	2 9679.6 3.60 8 9683.6 3.80 5 9688.0	2 9679.6 3.60 4.00 8 9683.6 3.80 4.40 5 9688.0 11.30 12.70	2 9679.6 3.60 4.00 7.60 8 9683.6 3.80 4.40 8.20 5 9688.0 11.30 12.70 24.00	2 9678.6 3.60 4.00 7.60 8 9683.6 3.80 4.40 8.20 339,214 11.30 12.70 24.00	2 9678.6 3.60 4.00 7.60 3298 8 9883.6 3.80 4.40 8.20 336,557 5 9688.0 339,214	2 9679.6 332,259 3.60 4.00 7.60 3298 2,964 8 9683.6 336,557 3.80 4.40 8.20 336,557 3,193 8 9688.0 339,214	2 9679.6 332.259 3.60 4.00 7.69 3298 2,964 0.11 8 9683.6 336,557 3.80 4.40 8.20 336,557 3,193 0.12 8 9688.0 339,214	2 9679.6 352.259 3.60 4.00 7.69 3298 2,964 0.11 0.50 8 9883.6 380 4.40 8.20 385,757 5 9688.0 339.216 11.30 12.70 24.00 10467 9,357 0.35 0.31	2 9679.6 352,259 3.60 4.00 7.60 3298 2,964 0.11 0.50 723 8 9883.6 380 4.40 8.20 385,657 9888.0 339,214 11.30 12.70 24.00 10487 9,357 0.35 0.31 728

City ofCarlin, Nevada

Compilation of Data Raw (Influent) Pump Station Corrected for Meter Error

PUMP 1 FLOW: PUMP 2 FLOW: 708 GPM 598 GPM BLACK COLUMNS REQUIRE DATA ENTRY RED COLUMNS ARE SELF-CALCULATING

ATE	DAYS	HOUR READIN	NGS	PUMPING I	IOURS		METER	METER	CORR.	METER	CORR.	PUMP	
UNE 2017		PUMP 1	PUMP 2	PUMP 1	PUMP 2	TOTAL	READINGS	VOLUME	VOLUME	FLOW	FLOW	FLOW	CHNG
		(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(GAL/100)	(GAL/100)	(GAL/100)	(MGD)	(MGD)	(GPM)	(%)
AST READINGS	FOR PR	EVIOUS MONT	н						,,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(mab)	(or m)	(10)
5/31/2017		10967.7	9306.9				84,010						
	1			6.00	7.10	13.10		5,721	5,096	0.57	0.51	728	10.9%
6/1/2017		10973.7	9314.0				89,731	-,	0,000	0.07	0.51	720	10.9%
	1			3.70	4.20	7.90		3,473	3,079	0.35	0.31	733	11.4%
6/2/2017		10977.4	9318.2				93,204	4		0.00	4.01	755	11.474
	3			14.70	17.10	31.80		14063	12,380	0.47	0.41	737	12.0%
6/5/2017		10992.1	9335.3				107,267			3111	4.41	,,,,	12.039
	1			2.20	9.60	11.80		5229	4,379	0.52	0.44	739	16.3%
6/6/2017		10994.3	9344.9				112,496		-			100	10.030
	1			5.00	5.80	10.80		4823	4.205	0.48	0.42	744	12.8%
6/7/2017		10999.3	9350.7				117,319						12.079
	1			0.60	10.50	11.10		4969	4,022	0.50	0.40	746	19.1%
6/8/2017		10999.9	9381.2				122,288						
	1			0.60	10.80	11.40		5072	4,130	0.51	0.41	742	18.6%
6/9/2017		11000.5	9372.0				127,360					3.75	
	3			15.50	18.20	33.70		15,093	13,115	0.50	0.44	746	13.1%
6/12/2017		11016.0	9390.2				142,453						
	1			5.20	6.00	11.20		4,962	4,362	0.50	0.44	738	12,1%
6/13/2017		11021.2	9396.2				147,415						
	1			4.80	6.60	11.40		5004	4,407	0.50	0.44	732	11.9%
6/14/2017		11026.0	9402.8				152,419						
	2			10.40	12.30	22.70		10174	8,831	0.51	0.44	747	13.2%
6/16/2017		11036.4	9415.1				162,593						
	3			1.00	35.10	36.10		15986	13,019	0.53	0.43	738	18.6%
6/19/2017	_	11037,4	9450.2				178,579						
	7			0.00	71.00	71.00		14021	25,475	0.20	0.38	329	-81.7%
6/28/2017		11037.4	9521.2				192,600						
	1			0.00	13.60	13.60		23657	4,880	2.37	0.49	2899	79.4%
6/27/2017	-	11037.4	9534.8				216,257						
	1			0.00	6.50	6.50		3096	2,332	0.31	0.23	794	24.7%
6/28/2017		11037.4	9541.3				219,353						
0.000.00.00	2			8.90	11.50	20.40		8903	7,907	0.45	0.40	727	11.2%
6/30/2017		11046.3	9552.8				228,256						

Average 0.411

City of Carlin, Nevada

PUMP 1 FLOW:

PUMP 2 FLOW:

Compilation of Data

Raw (Influent) Pump Station

Corrected for Meter Error

708 GPM 598 GPM BLACK COLUMNS REQUIRE DATA ENTRY RED COLUMNS ARE SELF-CALCULATING

ATE	DAYS	HOUR READIN	GS	PUMPING I	HOURS		METER	METER	CORR.	METER	CORR.	PUMP	
1AY 2017		PUMP 1	PUMP 2	PUMP 1	PUMP 2	TOTAL	READINGS	VOLUME	VOLUME	FLOW	FLOW	FLOW	CHNG
		(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(GAL/100)	(GAL/100)	(GAL/100)	(MGD)	(MGD)	(GPM)	
AST READING	S FOR PR	EVIOUS MONTH		4		0.000	(0.00100)	(GMD 100)	(detailed)	(MGC)	(WGD)	(GPWI)	(%)
4/28/2017		10808.5	9082.9				917.785						
	3			16.40	-978.00	-961.60		16,410	(343,940)	0.55	(11.46)	-28	2195.9
5/1/2017		10622.9	08104.9				934,195		((11.40)	-20	2100.0
	1			5.00	1006.80	1011.80		5,043	363,364	0.50	36.34	8	-7105.3
5/2/2017		10827.9	09111.7				939,238					-	-1100.0
	1			6.80	9.10	15.90		6782	6,154	0.68	0.62	711	9.3%
5/3/2017		10834.7	09120,8				946,020						
	1	-	1.0.10.1	4.10	5.50	9.60		4091	3,715	0.41	0.37	710	9.2%
5/4/2017	-	10038.8	09128.3				950,111						
	- 1	-		5.20	7.00	12.20		5224	4,721	0.52	0.47	714	9.6%
5/5/2017	-	10844,0	09133.3		Livro-		955,335						
5/8/2017	3		*****	16.00	21.10	37.10		16008	14,367	0.53	0.48	719	10.21
5/6/2017	1	10860.0	09154.4	1.70	9.90		971,343		22-2				
5/9/2017		10881.7	09164.3	1.70	9.90	11,60	070.045	4972	4,274	0.50	0.43	714	14.09
010/2011	-1	10001,1	08104.3	4.60	7.20	12.00	976,315	5,192		0.52		-	
5/10/2017		10866.5	09171.5	4,00	1.20	12.00	981,507	9,192	4,622	0.62	0.46	721	11.09
	1		*****	0.00	12.10	12.10	001,001	5,233	4,341	0.52	0.43	721	
5/11/2017		10866.5	09183.6		12.10	12.10	986,740	0,200	4,541	0.52	0.43	/21	17.09
	1			5.00	6.30	11,30	200,140	4900	4,384	0.49	0.44	723	10.5%
5/12/2017		10871.5	09189.9				991,640				4.44	123	10.01
	3			15.30	19.80	35.10		15208	13,604	0.51	0.45	722	10.5%
5/15/2017		10886.8	09209.7				6,846						
	- 1			2.00	8.90	10,90		4746	4,043	0.47	0.40	726	14.81
5/16/2017		10888,8	09218.6				11,592						
	1			7.80	4.40	12.20		5166	4,892	0.52	0.49	706	5.3%
5/17/2017		10896.6	09223.0		4.2		16,758						
	1			4.40	6.30	10.70		4936	4,130	0.49	0.41	769	16.3%
5/18/2017	1	10901.0	09229.3		4.44	0.000	21,694						
5/19/2017	-			6.10	6.30	12.40		5002	4,852	0.50	0.49	672	3.0%
0/10/2017	3	10907,1	09235.6	15.50	18.60	34.10	28,696					-	
5/22/2017		10922.6	09254.2	19,90	18.60	34.10	44 400	14706	13,258	0.49	0.44	719	9.8%
Mearen II	3	10922.0	00254.2	5.30	6.20	11.50	41,402	1001					
5/23/2017	_	10927.9	09260.4	0.00	0.20	11.00	46,383	4981	4,476	0.17	0.50	722	10.1%
Janes III	3	1002110	******	5.20	6.30	11.50	40,303	4953	4,469	0.17	0.50	718	0.04
5/24/2017		10933,1	09286.7		0.00	11.00	51,336	4000	4,400	U.17	0.50	/18	9.8%
	1	1		5.10	6.00	11.10	01,000	4812	4,319	0.48	0.43	723	10.2%
5/25/2017		10938.2	09272.7	77.74			56,148			v	0.40	123	10.27
	1			4.90	5.70	10.60		4664	4,127	0.47	0.41	733	11.5%
5/26/2017		10943.1	09278.4				60,812						
	3			19.80	22.80	42.60		18579	16,592	0.62	0.50	727	10.7%
5/30/2017		10962.9	06901.2				79,391						
	3			4.80	5.70	10.50		4619	4,084	0.15	0.50	733	11.6%
5/31/2017		10967.7	09306.9				84,010				Average	0.458	

Carlin Public Works Influent Report

DATE	DAYS	HOUR REAL	DINGS PI	JMPING HO	URS		METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP CORR	
		PUMP 1	PUMP 2	PUMP 1	PUMP 2	TOTAL	READINGS	VOLUME	VOLUME	FLOW	AVE.	FLOW	AVE.		cunc
		(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(GAL/100)		(GAL/100)	(MGD)				FLOW FLOW	CHNG
			0		,,	()	(0,00,100)	(CALL 100)	(GAD 100)	(MGD)	(MGD)	(MGD)	(MGD)	(GPM) (GPM)	(%)
4/3/2017		10521.3	8980.10				784,240								
	1			17.3	3.0	20.3		4,636	18,938	0.46		1.8	9	754	0.142
4/4/2017		10538,6	8963.1				788,876								
	3			17.4	2.9	20.3		5,396	18,307	0.18		0.6	1	751	0.139
4/5/2017		10556,00	8988.00				794,272								
	1			13.1	3.2	16.3		4675	20,201	0.47		2.0	2	744	0.130
4/8/2017		10569.1	8969.2				798,947								0.200
	1			18.9	3.4	22.3		6302	21,463	0.63		2.1	5	746	0.134
4/7/2017		10588.0	8972.6				805,249								0.254
	3			47.9	8.9	56.8		16083	58,184	0.54		1.8	7	740	0.126
4/10/2017		10635.9	8981.5				821,332								0.120
	1			15.1	2.8	17.9		4895	11016	1.26		1	1	754	0.142
4/11/2017		10651.0	8984,3				826,227					-	-	754	0.142
	1			16.4	2.7	19.1		5407	17,045	0.42		0.3	6	749	0.137
4/12/2017		10667,4	8987.0				831,634					0.0		743	0.157
	1			15.9	3.0	18.9		5,312	18,938	0.53		1.8	0	743	0.120
4/13/2017		10683.3	8990.0				836,946	0,012	10,000	0.00		1.0		743	0.130
	1			16.3	3.3	19.6		5,527	20,832	0.55		2.0	0	202	
4/14/2017		10899.6	8993.3			12.0	842,473	0,021	20,002	0.00		2.0	•	752	0.141
	3			48.8	9.0	57.8		16012	56,815	0.53		4.0		700	
4/17/2017		10748.4	9002.3				858,485	10012	50,015	0.00		1.8		732	0.117
	1			5.3	7.1	12.4		5063	44,821	0,51		4.4		745	
4/18/2017		10753.7	9009.4				863,548	******	44,021	0.01		4.4	•	745	0.134
	2			10.1	16.0	26.1		11083	101,004	0.55				720	
4/20/2017		10763.8	9025.4		10.0	20.1	874,631	11000	101,004	0,55		5.0		730	0.115
	1			5.4	7	12.4		5410	26164	0.60			_	***	2 200
4/21/2017	_	10769.2	9032.4	0.4	,	12.4	880,041	3410	20104	0.60		0.4	5	852	0.242
	3	10703.2	3002.4	15.7	20.9	36.6		15015	*****	0.00			_		
4/24/2017	_	10784.9	9053,3	10.7	20.5	30.0		15815	11847	0.65		0.5	7	736	0.122
112112011	2	10704.5	8000,0	10.9	14.8	25.7	895,856	40054							
4/26/2017	-	10795,8	9068.1	10.5	14,0	25.7	000 007	10951	93,429	0.55		4.6	7	730	0.115
4/20/2017	1	10195.0	8000.1	6.0	7.2	12.0	906,807								
4/27/2017	-	100011	0075	5.3	7.3	12.6		5433	7605	0.53	0.	0.7	6	615	0.049
4/2//2017	1	10801.1	9075.4				912,240								
4/00/0047		*0000 =	****	5,4	7.5	12.9		5545	47,346	0.55		4.73	3	730	0.115
4/28/2017		10806.5	9082.9				917,785								

Carlin Public Works Influent Report

DATE	DAYS	HOUR REA		UMPING HO			METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP CORR	
		PUMP 1 (HRS)	PUMP 2 (HRS)	PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	READINGS (GAL/100)	VOLUME (GAL/100)	VOLUME (GAL/100)	FLOW (MGD)	AVE. (MGD)	FLOW (MGD)	AVE. (MGD)	FLOW FLOW	CHNG
					,		(5/12/100)	(0.00)	(0.10.100)	(mob)	(MGD)	(MIGO)	(MGD)	(GPM) (GPM)	(%)
3/1/2017		9963,0	8,837.				599,660								
3/3/2017	1	10002.0	8846.5	39.0	9.3	48.3		12,442	55,594	1.24		5.56	3	754	0.142
WW2017	3	10002.0	0040.5	56.2	16.0	72.2	612,102	17,872	95,645	0.60		2.4		754	
3/8/2017		10058.2	8862.5			72.2	629,974		50,045	0.60		3.19	,	751	0.139
	1			17.2	6.1	23.3		5927	36,465	0.59		3.65	5	744	0.130
3/7/2017		10075.4	8888.6		20		635,901								
3/8/2017	1	10089.8	8875.8	14.4	7.2	21.6		5617	43,040	0.56		4,30)	746	0.134
0/0/2017	1	10009.0	00/0/0	17.2	5.6	22.8	641,518	5635	33,476	0.56		0.00		240	
3/9/2017		10107.0	8881,4		-	22.0	647,153		33,470	0.36		3.35)	740	0.126
	1			15.2	8.6	23.8		5159	11016	1.26		1.	1	754	0.142
3/10/2017		10122.2	8890.0				652,312								
3/13/2017	3	10172.2	8899.6	50.0	9.6	59.6		16649	57,387	0.42		0.36	3	749	0.137
0/10/2017	1	10172.2	0000.0	16.6	2.8	19.4	668,961	5,559	16,738	0.56		1.67		747	
3/14/2017		10188.8	8902.4		2.0	10.0	674,520		10,750	0,56		1.07		743	0.130
	1			19.6	2.3	21.9		6,023	13,749	0.60		1.37		752	0.141
3/15/2017		10208.4	8904.7				680,543								
3/16/2017	1	10225.4	8007.4	17.0	(897.3)	(880.3)		5536	(5,363,880)	0.55		(536.39	9)	732	0.117
0.10.2017	1	10223.4	6007.4	15.7	903.9	919.6	686,079	5439	5,403,333	0.54		540.33		745	0.104
3/17/2017		10241.1	8911.3			- 10.0	691,518		0,400,000	0.54		540.50	,	745	0.134
	3			47.6	8.6	56.2		16102	51,409	0.54		1.71		730	0.115
3/20/2017		10288.7	8919.9				707,620								
3/21/2017	1	10304.7	8923.3	16	3.4	19.4		5351	7605	0.53		0.7	6	615	0.049
0/2/1/2017	1	10304.7	0823.3	20.3	2.3	22.6	712,971	6541	26164	0.60		0.4		852	0.242
3/22/2017		10325.0	8925.6				719,512		20104	0.00		0.4	,	652	0.242
	1			13.7	2.6	16.3		4724	11847	0.65		0.5	7	736	0.122
3/23/2017		10338,7	8928.2				724,236								
3/24/2017	1	10354.9	8930.6	16.2	2.4	18.6	720 551	5315	14,347	0.53		1,43	1	730	0.115
ole heart	3	10004.0	0500.0	51.3	10.1	61.4	729,551	17292	7605	0.53		0.7	5	615	0.049
3/27/2017		10406.2	8940.70				746,843		7500	0.55		0.7		013	0.049
	1			12.5	2.3	14.8		4059	13,749	0.41		1.37		730	0.115
3/28/2017	2	10418.7	8943.0	00.7			750,902			2.00					
3/30/2017	2	10452.4	8948.7	33.7	5.7	39.4	761,748	10846	7605	0.53		0.7	6	615	0.049
	1	.0402.4	0340.7	18.3	2.4	20.7		5544	26164	0.60		0.4	s	852	0.242
3/31/2017		10470.7	8951.1		2	2511	767,292		20204	0.00		0.4.		032	0.242
							11 11 11 11 11								

DATE	DAYS	HOUR REA PUMP 1 (HRS)	DINGS PI PUMP 2 (HRS)	PUMPING HO PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	METER READINGS (GAL/100)	METER VOLUME (GAL/100)	CORR. VOLUME (GAL/100)	METER FLOW (MGD)	METER AVE. (MGD)	CORR. FLOW (MGD)	CORR. AVE. (MGD)	PUMP CORR FLOW FLOW (GPM) (GPM)	CHNG (%)
2/1/2017		9,430.1	8,704.7				423,497								
	1	20220		35.0	6.8	41.8		11,558	17,308	1.16		1.73	1	754	0.142
2/3/2017	3	9,485.1	8,711.5				435,055								
2/6/2017	3	9,511.9	8,729.9	46.8	18,4	65.2		19,325	26,483	0.64		0.88	3	751	0.139
202017	1	0,011.0	0,729,1	24.9	7.0	31.9	454,380		12.000						
2/7/2017		9,536.8	8,736.9		2.0	31.8	460,843	6463	13,089	0.65		1.31		744	0.130
	1			18,6	7.0	25.6		6756	10,413	0.68		1.04		746	0.104
2/8/2017		9,555.4	8,743.9				467,599		10,110	0.00		1.04		740	0.134
	1			19.7	4.8	24.5		6377	10,091	0.64		1.01		740	0.126
2/9/2017		9,575.1	8,748.7				473,976								0.120
	1			20.4	3.4	23.8		6410	11016	1.26	5	1.	1	754	0.142
2/10/2017	3	9,595.5	8,752.1				480,388								
2/13/2017	3	9,654.0	8,770.0	58,5	17.9	76.4		19180	31,273	0.42		0.36	3	749	0.137
210/2017	1	8,034.0	0,770.0	21.6	6.1	27.7	499,588		44.204	0.70					
2/14/2017		9,675.6	8,776.1		0.1	21.1	506,573	7,007	11,364	0.70		1.14		743	0.130
	1			19.2	3.9	23.1		6,213	9,555	0.62		0.98		752	0.141
2/15/2017		9,694.8	8,780.0)			512,786		-,	0.00		-		732	0.141
	1			18.9	4.3	23.2		6245	9,572	0.62		0.96		732	0.117
2/16/2017		9,713.7	8,784.3				519,031								
014710047	1			18.8	3.8	22.6		7691	9,350	0.77		0.93		745	0.134
2/17/2017	4	9,732.5	8,788.1	75.1			528,722								
2/21/2017	-	9,807.6	8,801,3		13.2	88.3	549,643	22921	36,639	0.57		0.92		730	0.115
	1	0,007.0	0,001,0	22.7	7 4.3	27		6921	7605	0.53		0.7	e	615	0.040
2/22/2017		9,830,3	8,805,6			-	556,564		7003	0.55	,	0.7	•	615	0.049
	1			17.9	9 4.9	22.8		12193	26164	0.60)	0.4	5	852	0.242
2/23/2017		9,848.2	8,810.5	;			568,757							777	0.242
	1			19.8	8 3.4	23.2		1000000	11847	0.65		0.5	7	736	0.122
2/24/2017		9,888.0	8,813.9				568,757								
2/27/2017	3	0.007.0	0 000 0	59.9	14.3	74.2		19477	30,576	0.65		1.02		730	0.115
2/2//2017	1	9,927.9	8,828.2	18.5	5 5.1	23.6	588,234		7505	0.00				***	200.00
2/28/2017	•	9,946.4	8,833.3		5 5.1	25.0	594,384	6150	7605	0.53		0.7	5	615	0.049

DATE	DAYS	HOUR REA PUMP 1 (HRS)	DINGS PI PUMP 2 (HRS)	PUMPING HO PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	METER READINGS (GAL/100)	METER VOLUME (GAL/100)	CORR. VOLUME (GAL/100)	METER FLOW (MGD)	METER AVE. (MGD)	CORR. FLOW (MGD)	CORR. AVE. (MGD)	PUMP CORR FLOW FLOW (GPM) (GPM)	CHNG (%)
1/3/2017		9,084.3	8,529.0				255,861								
	1			4.7	6.5	11.2		4,762	4,329	0.48		0.43		754	0.142
1/4/2017		9,089.0	8,535.5	5			260,623	1						177	0.242
	3			12.7	13.8	26.5		11,540	10,346	0.38		0.34		751	0.139
1/8/2017		9,101.7	8,549.3				272,163	1							
	3			13.9	29.6	43.5		18934	16,525	0.63		0.55		744	0.130
1/9/2017		9,115.6	8,578.9				291,097								
44400047	1			2.2	19,5	21.7		9057	7,931	0.91		0.79		746	0.134
1/10/2017		9,117.8	8,598.4				300,154								
4/44/0047	1			4.5	6.9	11.4		4909	4,387	0.49		0.44		740	0.126
1/11/2017	1	9,122.3	8,605.3				305,063								
1/13/2017	1	0.404.5		2.2	28.1	30.3		12685	11016	1.26	5	1.3	1	754	0.142
1/13/2017	4	9,124.5	8,633,4	63.2	40.7	70.0	317,748								
1/17/2017	-	9,187.7	8,650.1		16.7	79.9		22506	32,839	0.42		0.38		749	0.137
1717/2017	1	0,107.7	0,000,1	16.3	3.4	19.7	340,254								
1/18/2017		9,204.0	8,653.5		0.4	19.7		5,465	8,144	0.55		0.81		743	0.130
11102011	1	0,204.0	0,000.0	16.5	3.2	19.7	345,719	5,573	0.457						
1/19/2017		9,220.5	8,656.7		0.2	19.7	351,292		8,157	0.56		0.82		752	0.141
	1	0,220.0	0,000,	15.6	4.2	19.8		5574	8,134	0.56				777	
1/20/2017		9,236.1	8,660.9		-	15.0	356,866		0,134	0.56		0.81		732	0.117
	5	.,,	-,	77.2	19.9	97.1		27611	39,935	0.55		0.80		745	0.424
1/25/2017		9,313.3	8,680.8		-	-	384,477		00,000	0.00		0.00		745	0.134
	1			13.9	4.1	18.0		5142	7,376	0.51		0.74		730	0.115
1/26/2017		9,327.2	8,684.9)			389,619			-		0.74		750	0.115
		1		15.3	2 3.2	18.4		5264	7605	0.53	3	0.76		615	0.049
1/27/2017		9,342.4	8,688.1				394,883					0111		025	0.043
		3		53.4	4 9.7	63.1		17240	26164	0.60)	0.45	5	852	0.242
1/30/2017		9,395.8	8,697.8	3			412,123					-		002	0.242
		1		17.5	5 12.3	29.8		5761	11847	0.65	5	0.57	,	736	0.122
1/31/2017		9,413.3	8,710,1				417,884								01200

DATE	DAYS	HOUR REA	DINGS	PUMPING	HOURS		METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP CORR	
		PUMP 1 (HRS)	PUMP 2 (HRS)	PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	READINGS (GAL/100)		VOLUME	FLOW (MGD)	AVE. (MGD)	FLOW (MGD)	AVE. (MGD)	FLOW FLOW (GPM) (GPM)	CHNG (%)
12/1/2016	3	8,923.6	8,316.5				91,257								
	1			4.3	5.4	9.7		4388	3,764	0.44		0.38		754	0.142
12/2/2016		8,927.9	8,321.9				95,645								
40/5/0046	3			13.6	17.3	30.9		13,916	11,985	0.46		0.40		751	0.139
12/5/2016	1	8,941.5	8,339.2	5.6			109,561								
12/8/2016		8,947.1	8,346,1		6,9	12.5		5,581	4,855	0.56		0.49		744	0.130
	1	0,047.1	0,540.1	3.1	4.0	7.1	115,142	3177	0.750			111		212	
12/7/2016		8,950.2	8,350.1		4.0	1.1	118,319		2,752	0,32		0.28		746	0.134
	1		.,	5.8	7.4	13.2		5860	5,119	0.59		0.51		740	0.125
12/8/2016	3	8,956.0	8,357.5				124,179		5,115	0.00		0.51		740	0.126
	1			4.3	5.4	9.7		4333	3,764	0.43		0.38		745	0.131
12/9/2016		8,960.3	8,362.9				128,512								0.252
	3			12.3	15.7	28	3	12579	10858.2	0.42	2	0.36	5	749	0.137
12/12/2016		8,972.6	8,378,6				141,091								
401401004	1			4.9	6.2	11.1		4946	4,306	0.49		0.43		743	0.130
12/13/2016	1	8,977.5	8,384.8				146,037								
12/14/2016		8,981.7	8,390.3	4.2	5.5	9.7		4,374	3,758	0.44		0.38		752	0.141
12142010	1	0,001.1	0,000.0	5.0	6.3	11.3	150,411	4,963	4,384	0.50				700	
12/15/2016		8,986.7	8,396.6		0.0	11.0	155,374		4,004	0.50		0.44		732	0.117
	1	.,	-,	5.1	6.7	11.8		5276	4,570	0.53		0.46		745	0.134
12/16/2016	3	8,991.8	8,403.3				160,650			-		0.40		745	0.134
	3			14.9	19.4	34.3		15016	13,290	0.50		0.44		730	0.115
12/19/2016		9,006.7	8,422.7				175,666								0.225
	1			5.2	7.0	12.2		4499	4,721	0.45		0.47		615	0.049
12/20/2016		9,011.9	8,429.7				180,165								
12010010	1	0.047.0		5.1	6.6	11.7		5984	4534.56	0.6	5	0.45		852	0.242
12/21/2016	1	9,017.0	8,438,3	6.4	8.2	14.6	188,149								
12/22/2018		9,023.4	8,444.5		0.2	14.6	192,599	6450	5660.88	0.65		0.57		736	0.122
	1	0,020.4	0,111.0	3.6	4.8	8.4		3700	3251.52	0.37		0.22		774	
12/23/2016		9,027.0	8,449.3		4.0	0.4	196,299		3231.32	0.57		0.33		734	0.121
	4	******		21.4	27.9	49.3		21876	19,101	0.55		0.48		740	0.127
12/27/2016	1	9,048.4	8,477.2				218,175			-		0.40		740	0.127
	1			5.3	7.3	12.6		5384	4,871	0.54		0.49		712	0.095
12/28/2016	1	9,053.7	8,484.5				223,559							-	
	1			4.6	5.8	10.4		4673	4,035	0.47		0.40		749	0.127
12/29/2016		9,058.3	8,490.3				228,232								
10/00/00	1			5.2	8.0	13.2		5568	5,079	0.56		0.51		703	0.088
12/30/2016		9,063.5	8,498.3				233,800								

DATE	DAYS	HOUR RE	ADINGS PUI	MPING HO	URS		METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP	CORR	
		PUMP 1	PUMP 2	PUMP 1	PUMP 2	TOTAL	READINGS	VOLUME	VOLUME	FLOW	AVE.	FLOW	AVE.	FLOW	FLOW	CHNO
		(HRS)	(HRS)	(HRS)	(HRS)	(HRS)	(GAL/100)		(GAL/100)	(MGD)	(MGD)	(MGD)	(MGD)	(GPM)	(GPM)	(%
11/1/2016		8,795.5	8,154,3													
1002010	1	0,795.5	0,104,3	4.3	5.6	9.9	963,348	4,373				1272.2				
11/2/2016		8,799.8	8,159.9	4.0	5,0	0.0	967,721	4,373	3,836	0.44		0.38		736		0.12
	1			5.0	6.3	11.3	001,121	4,994	4,384	0.50		0.44		737		0.10
11/3/2016		8804.8	8166.2				972715					0.44		131		0.12
	6			26.1	33.2	59.3		25,903	22,999	0.43		0.38		728		0.11
11/9/2016		8,830.9	8,199.4				998,618									
11/10/2016	1	0.000.0	0.000.4	3.0	3.7	6.7		2,918	2,602	0.29		0.26		726		0.100
11/10/2016	5	8,833.9	8,203,1	21.0	26.6	47.6	1,536									
11/15/2016		8,854.9	8,229.7	21.0	20.0	47.0	22,372	20,838	18,465	0.42		0.37		730		0.114
	1			4.8	6.1	10,9	26,072	4,829	4,228	0.48		0.42		738		0.40
11/16/2016		8,859.7	8,235,8				27,201		1,220	0.40		0.42		130		0.12
	1			3.8	4.6	8.4		3,762	3,265	0.38		0,33		748		0.133
11/17/2016		8,863.5	8,240.4				30,963									
11/21/2016	4	0.000.0	0.000.4	17.4	22.0	39.4		17,338	15,285	0.43		0.38		733		0.118
11/21/2010	1	8,880.9	8,262.4	3.8	4.6	8.4	48,301	3,667	0.005					-11		
1/22/2016		8884.7	8267	0.0	4,0	0.4	51968		3,265	0.37		0.33		728		0.110
	1			4.2	5,3	9.5	52500	4,183	3,686	0.42		0.37		734		0.119
11/23/2016		8,888.9	8,272.3				56,151					0.07		7.04		0.11
	5			21.4	27.0	48.4		21,413	18,778	0.43		0.38		737		0.123
11/28/2016		8,910.3	8,299.3				77,564									
	1			4.4	5.5	9.9		4,457	3,843	0.45		0.38		750		0.138
11/29/2016		8,914.7	8,304.8	4.3			82,021									
11/30/2016		8,919.0	8,310,5	4.3	5.7	10.0	90 110	4,425	3,872	0.44		0.39		738		0.125
		NATA O	0.010.3				86,446									

DATE	DAYS	HOUR RE	ADINGSPU	MPING HO	URS		METER	METER	CORR.	METER	METER	CORR.	CORR.	-		
		PUMP 1 (HRS)	PUMP 2 (HRS)	PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	READINGS	VOLUME	VOLUME (GAL/100)	FLOW (MGD)	AVE.	FLOW (MGD)	AVE.	FLOW (GPM)	FLOW (GPM)	CHNG (%)
												, , , ,	()	(Or my	(Or my	(10)
10/6/2016		0.689,8	8,019.6				858,791									
	2	223.0		19,5	24.3	43.8		18,789	17,002	0.94		0.85		715		0.095
10/11/2016		8,708.5	8,043.9				877,580									
10/12/2016	3			3.8	4.5	8,3		3,681	3,229	0.12		0.11		739		0.123
10/12/2016		8712.3	8048.4				881261									
10/13/2016	1	0.740.5	0.050.0	4.2	5.5	9.7		4,109	3,758	0.41		0.38		706		0.086
10/13/2016	1	8,716.5	8,053.9	3.8			885,370									
10/14/2016		8,720.3	8,059.2	3.0	5.3	9.1		4,120	3,516	0.41		0.35		755		0.147
101-12010	3	0,120.0	0,000.2	12.7	16.1	28.8	889,490									
10/17/2016	-	8,733.0	8,075.3	14	10.1	20.0	901,856	12,366	11,172	0.41		0.37		716		0.097
	2	4,1 44.14	4,014.0	8.9	11,3	20.2	901,000	8,731	7,835	0.44				700		
10/19/2016		8,741.9	8,086,6				910,587	0,101	7,000	0.44		0.39		720		0.103
	1			3.8	4.6	8.4	0.10,007	3,655	3,265	0.37		0.33		725		0.107
10/20/2016		8,745.7	8,091.2				914,242		0,200	0.01		0.00		723		0.107
	1			4.1	5.1	9.2		3,989	3,572	0.40		0.38		723		0.105
10/21/2016		8,749.8	8,096,3				918,231		.,							0.100
	3			13.2	16.7	29.9		13,015	11,599	0.43		0.39		725		0.109
10/24/2016		8763	8113				931246									
	1			3.7	4.7	8.4		3,559	3,258	0.36		0.33		706		0.085
10/25/2016		8,766.7	8,117.7				934,805									
	2			8.1	10.1	18.2		7,868	7,065	0.39		0.35		721		0.102
10/27/2016		8,774.8	8,127.8				942,673									
	4			16.7	21.4	38.1		16,607	14,772	0.42		0.37		726		0.110
10/31/2016		8,791,5	8,149.2				959,280									

DATE	DAYS	HOUR RE	ADINGSPU	MPING HO	URS		METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP	CORR	
		PUMP 1 (HRS)	PUMP 2 (HRS)	PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	READINGS (GAL/100)		VOLUME (GAL/100)	FLOW (MGD)	AVE. (MGD)	FLOW (MGD)	AVE. (MGD)	FLOW (GPM)	FLOW (GPM)	CHNG
9/1/2016		8,553.0	7,850.6				727,081									, ,
	2	0,000.0	1,000,0	4.0	5.1	9.1	/2/,001	3,982	3,529	0.20				-		
9/2/2016		8,557.0	7,855.7				731,063		3,329	0.20		0.18		729		0.114
	3			16.1	20.0	36.1	101,000	15,667	14,015	0.52		0.47		723		0.105
9/6/2016		8573.1	7875.7				746730					0.01		120		0.105
	1			3.9	4.8	8.7		3,796	3,379	0.38		0.34		727		0.110
9/7/2016		8,577.0	7,880.5				750,528									0.110
	1			3.7	4.7	8.4		3,707	3,258	0.37		0.33		738		0.121
9/8/2016		8,580.7	7,885.2				754,233									
01012046	1			4.0	4.9	8.9		3,874	3,457	0.39		0.35		725		0.108
9/9/2016	3	8,584.7	7,890.1	11.3	40.0		758,107			2.22						
9/12/2016	3	8,598.0	7,904.0	11.3	13,9	25.2		10,813	9,788	0.36		0.33		715		0.095
WILLDIO	2	0,000,0	1,004.0	7.3	9.6	16.9	768,920	7,421	6,546	0.07						
9/14/2016		8,603,3	7,913.6	7.5	0.0	10.0	776,341		6,546	0.37		0.33		732		0.118
	1	*,*****	.,	4.5	5.3	9.8	110,041	4,022	3,813	0.40		0.38		684		
9/15/2016		8,607.8	7,918.9				780,363		0,010	0.40		0.30		004		0.052
	1			4.9	6.0	10.9		4,784	4,234	0.48		0.42		731		0.115
9/16/2016		8612.7	7924.9				785147									0.110
	3			10.7	13.1	23.8		10,322	9,246	0.34		0.31		723		0.104
9/19/2016		8,623.4	7,938.0				795,469									
	2			7.3	9.1	16.4		7,086	6,366	0.35		0.32		720		0.102
9/21/2016		8,630.7	7,947.1				802,555									
9/22/2016	1	8,634.4	7,951.8	3.7	4.7	8.4		3,619	3,258	0.36		0.33		718		0.100
51222010	1	0,004.4	1,501.0	3.8	4.7	8.5	806,174	3,680	2 201	0.07						
9/23/2016		8,638.2	7,956.5	0.0	34.1	0.5	809,854		3,301	0.37		0.33		722		0.103
	3	.,	.,,,,,,,,	11.3	13.9	25.2	000,004	10,984	9,788	0.37		0.33		728		0.109
9/26/2016		8,649.5	7,970.4				820,838		0,100	0.01		0.00		720		0.109
	1			3.7	4.7	8.4		3,622	3,258	0.36		0.33		719		0.100
9/27/2016		8,853.2	7,975.1				824,460									0.100
	2			8.8	11.0	19.8		8,510	7,685	0.43		0.38		716		0.097
9/29/2016		8662	7986.1				832970									
0/20/200	1			2.8	3.4	6.2		2,627	2,409	0.26		0.24		706		0.083
9/30/2016		8664.8	7989.5				835597									

DATE	DAYS		ADINGSPU	MPING HO	URS		METER	METER	CORR.	METER	METER	CORR.	CORR.	PUMP	CORR	
		PUMP 1 (HRS)	PUMP 2 (HRS)	PUMP 1 (HRS)	PUMP 2 (HRS)	TOTAL (HRS)	(GAL/100)		VOLUME (GAL/100)	FLOW (MGD)	AVE. (MGD)	FLOW (MGD)	AVE. (MGD)	FLOW (GPM)	FLOW (GPM)	CHNO
8/1/2016		8,432.4	7,698.8				****					,	()	(Or III)	(Or my	1/0
	2	0,102.1	1,000.0	3.4	4.3	7.7	609,644	3,362	2,987	0.17		0.45				
8/2/2016		8,435.8	7,703.1				613,006		2,301	0.17		0.15		728		0.11
	3			3.7	4.5	8.2		3,595	3,186	0.12		0.11		731		0.11
8/3/2016		8439.5	7707.6				616601									0.11
0/4/0045	1			3.9	4.8	8.7		3,743	3,379	0.37		0.34		717		0.09
8/4/2016	4	8,443.4	7,712.4				620,344									
8/8/2016	-	8,458.3	7,731.2	14.9	18.8	33.7	005.047	14,873	13,075	0.37		0.33		736		0.12
0.0.2010	1	0,400.0	1,101.2	3.6	5.3	8.9	635,217	3,599	9.494							
8/9/2018		8,461.9	7,738.5	0.0	5.5	0.0	638,816		3,431	0.36		0.34		674		0.04
	1			3.9	4.8	8.7	000,010	3,763	3,379	0.38		0.34		721		0.10
8/10/2016		8,465.8	7,741.3				642,579		-,	0.00		0.01		121		0.10.
	1			3.9	4.8	8.7		3,751	3,379	0.38		0.34		719		0.09
8/11/2016		8,469.7	7,746.1				646,330									
9/49/0046	1	0.470.0		4.2	5.4	9.6		4,124	3,722	0.41		0.37		718		0.09
8/12/2016	3	8,473.9	7,751.5	11.4			650,454									
3/15/2016	3	8485.3	7765.6	11.4	14.1	25.5	661473	11,019	9,902	0.37		0.33		720		0.10
, 15, 2020	1	010010	7700.0	3.8	5.3	9.1	0014/3	4,251	3,516	0.43		0.05		770		
8/16/2016		8,489.1	7,770.9			-	665,724		0,010	0,43		0.35		779		0.17
	1			4.3	5.0	9.3	,	3,621	3,621	0.36		0.36		649		0.00
8/17/2016		8,493.4	7,775.9				669,345							0.00		0.00
	5			20.5	25.9	46.4		19,966	18,001	0.40		0.36		717		0.098
8/22/2016		8,513.9	7,801.8				689,311									
8/23/2016	1	8,517.9	7 000 7	4.0	4.9	8,9		3,835	3,457	0.38		0.35		718		0.098
0/25/2010	1	0,517.5	7,806.7	5.0	6.5	11.5	693,146		4.450	0.40						
8/24/2016		8,522.9	7,813.2	5.0	0.5	11,5	698,038	4,890	4,456	0.49		0.45		709		0.089
	1	-,,	.,,	2.8	3.2	6.0	030,000	2,655	2,338	0.27		0.23		737		0.120
8/25/2016		8,525.7	7,816.4				700,691	2,000	2,000	0.2.		0.25		131		0.120
	1			3.9	5.0	8.9		3,829	3,451	0.38		0.35		717		0.099
3/26/2016		8529.6	7821.4				704520									
	3			11.9	15.2	27.1		11,559	10,509	0.39		0.35		711		0.091
3/29/2016		8541.5	7836.6				716079									
3/30/2016	1	00403	70/4	3.8	4.4	8.2	740551	3,585	3,193	0.38		0.32		729		0.109
) 30) ZU10	1	8545.3	7841	4.0	4.9	8.9	719664	0.000	0.457							
8/31/2016		8,549.3	7,845.9	4.0	4.9	0.9	723,470	3,806	3,457	0.38		0.35		713		0.092
		225.15.15	1000				120,7110									

				INFL	JENT TES	TING									CCCII	IENT TEST	INC				
Monitoring Period	l,	nfluent Flo	NA/	Influe	nt BOD/C	:BOD	1	Influent Ph	1	Fff	luent CB0	OD	1	Efflu	ent PH	JEINI TEST	ING	Effluent T	99	Total Nitro	ogen as (N)
Month - Year	Avg.	Max.	Units	Avg.	Max	Units	Avg	Max	<u> </u>	Avg	Max	Units	Min	Avg	Max	Units	Avg	Max	Units	Max	Units
1/1/2011	0.43	0.51	MGD	7,46.	178	mg/l	7148	8.2	S.U.	7.00	23	mg/l		7.46	8.4	S.U.	7.48	19	mg/l	16.00	mg/L N
2/1/2011	0.37	0.37	MGD		175	mg/l		8.4	S.U.		41	mg/l			8.4	S.U.		41	mg/l	10.00	mg/L N
3/1/2011	0.26	0.39	MGD		50	mg/l		7.9	S.U.		34	mg/l			8.9	S.U.		82	mg/l		mg/L N
4/1/2011	0.38	0.39	MGD		139	mg/l		8.1	S.U.		11	mg/l			7.5	S.U.		60	mg/l		mg/L N
5/1/2011	0.39	0.55	MGD		79	mg/l		7.7	S.U.		9	mg/l			8.2	S.U.		24	mg/l		mg/L N
6/1/2011	0.46	0.55	MGD		252	mg/l		8.2	S.U.		53	mg/l			7.7	S.U.		79	mg/l	11.00	mg/L N
7/1/2011	0.41	0.57	MGD		149	mg/l		7.1	S.U.		10	mg/l			8.0	S.U.		27	mg/l		mg/L N
8/1/2011	0.32	0.36	MGD		153	mg/l		7.6	S.U.		15	mg/l			7.7	S.U.		62	mg/l		mg/L N
9/1/2011	0.33	0.34	MGD		154	mg/l		7.3	S.U.		13	mg/l			7.6	S.U.		51	mg/l	6.80	mg/L N
10/1/2011	0.36	0.43	MGD		161	mg/l		7.6	S.U.		2	mg/l			8.1	S.U.		4	mg/l		mg/L N
11/1/2011	0.40	0.45	MGD		189	mg/l		7.2	S.U.		3	mg/l			7.8	S.U.		5	mg/l		mg/L N
12/1/2011	0.42	0.56	MGD		129	mg/l		7.7	S.U.		6	mg/l			8.0	S.U.		15	mg/l	9.90	mg/L N
1/1/2012	0.45	0.64	MGD		110	mg/l		7.8	S.U.		32	mg/l			8.1	S.U.		80	mg/l		mg/L N
2/1/2012	0.41	0.43	MGD		123	mg/l		7.9	S.U.		41	mg/l			8.0	S.U.		73	mg/l	18.00	mg/L N
3/1/2012	0.41	0.51	MGD		126	mg/l		7.9	S.U.		21	mg/l			7.6	S.U.		80	mg/l		mg/L N
4/1/2012	0.33	0.35	MGD		98	mg/l		8.2	S.U.		23	mg/l			8.2	S.U.		44	mg/l		mg/L N
5/1/2012	0.37	0.51	MGD		140	mg/l		7.5	S.U.		33	mg/l			8.4	S.U.		74	mg/l	12.00	mg/L N
6/1/2012	0.34	0.47	MGD		175	mg/l		7.6	S.U.		41	mg/l			7.4	S.U.		16	mg/l		mg/L N
7/1/2012	0.37	0.53	MGD		264	mg/l		7.4	S.U.		30	mg/l			7.6	S.U.		16	mg/l		mg/L N
8/1/2012	0.39	0.76	MGD		143	mg/l		7.6	S.U.		25	mg/l			8.0	S.U.		43	mg/l	8.90	mg/L N
9/1/2012	0.46	0.71	MGD		100	mg/l		7.9	S.U.		11	mg/l			8.2	S.U.		26	mg/l		mg/L N
10/1/2012	0.31	0.37	MGD		327	mg/l		7.8	S.U.		52	mg/l			8.2	S.U.		44	mg/l		mg/L N
11/1/2012	0.47	0.77	MGD		160	mg/l		7.9	S.U.		10	mg/l			7.8	S.U.		30	mg/l	16.00	mg/L N
12/1/2012	0.35	0.51	MGD																		
1/1/2013	0.47	0.68	MGD		82	mg/l		8.1	S.U.		10	mg/l			8.4	S.U.		50	mg/l		mg/L N
2/1/2013	0.36	0.48	MGD		221	mg/l		7.2	S.U.		56	mg/l			7.2	S.U.		32	mg/l	20.00	mg/L N
3/1/2013	0.41	0.82	MGD		136	mg/l		8.4	S.U.		36	mg/l			7.3	S.U.		11	mg/l		mg/L N
4/1/2013	0.28	0.42	MGD		239	mg/l		7.5	S.U.		57	mg/l			7.3	S.U.		12	mg/l		mg/L N
5/1/2013	0.49	0.87	MGD		110	mg/l		8.3	S.U.		10	mg/l			8.4	S.U.		18	mg/l	22.00	mg/L N
6/1/2013	0.53	0.86	MGD		251	mg/l		7.9	S.U.		16	mg/l			8.0	S.U.		23	mg/l		mg/L N
7/1/2013	0.34	0.60	MGD		97	mg/l		7.6	S.U.		14	mg/l			8.2	S.U.		38	mg/l		mg/L N
8/1/2013	0.40	0.48	MGD		69	mg/l		7.6	S.U.		9	mg/l			8.0	S.U.		18	mg/l	17.00	mg/L N
9/1/2013	0.44	0.58	MGD		57	mg/l		20.6	S.U.		12	mg/l			8.0	S.U.		24	mg/l		mg/L N
10/1/2013	0.43	0.51	MGD		89	mg/l		7.7	S.U.		21	mg/l			8.2	S.U.		19	mg/l		mg/L N
11/1/2013	0.39	0.47	MGD		101	mg/l		7.9	S.U.		32	mg/l			8.3	S.U.		47	mg/l	20.00	mg/L N
12/1/2013	0.46	0.51	MGD		109	mg/l		7.6	S.U.		22	mg/l			7.7	S.U.		48	mg/l		mg/L N
1/1/2014	0.45	0.56	MGD		117	mg/l		7.9	S.U.		35	mg/l			7.7	S.U.		35	mg/l		
2/1/2014	0.47	0.53	MGD		87	mg/l		7.6	S.U.		11	mg/l			7.6	S.U.		12	mg/l	20.00	mg/L N
3/1/2014	0.44	0.55	MGD		111	mg/l		7.8	S.U.		22	mg/l			7.9	S.U.		27	mg/l		
4/1/2014	0.42	0.73	MGD		97	mg/l		7.6	S.U.		46	mg/l			8.3	S.U.		102	mg/l		
5/1/2014	0.41	0.74	MGD		84	mg/l		7.6	S.U.		74	mg/l			8.1	S.U.		85	mg/l	21.00	mg/L N
6/1/2014	0.41	0.88	MGD		147	mg/l		8.4	S.U.		14	mg/l			7.9	S.U.		46	mg/l		

0.423 Jan 13 to June 14

122 Jan 13 to June 14

28 Jan 13 to June 14

36 Jan 13 to June 1450 Recent high SS values

APPENDIX F

BROWNFIELD STUDIES



TECHNICAL MEMORANDUM #1

CITY OF CARLIN

BROWNFIELD FEASIBILITY ANALYSIS

Prepared For: Converse Consultants

Prepared By: Jennifer Heeran, P.E.

Reviewed By: Lucas Tipton, P.E.

Date: March 16, 2018

Subject: Brownfield Feasibility Analysis

1.0 INTRODUCTION

Farr West Engineering has been asked to evaluate the feasibility of serving existing undeveloped Brownfield sites with public water and sewer service by the City of Carlin.

Converse Consultants selected the sites. Farr West Engineering has provided an engineering analysis and cost estimate for extending water and sewer utilities to the sites and the impact to the existing system due to the increased water demand and sewer load.

2.0 SITE ANALYSIS

2.1 SITE 1 – INDUSTRIAL PARK

2.1.1 Description

The first site is comprised of five parcels near Griffin Street and Spruce Road, to the west of Newmont Road/SR 766. In total, the five parcels have a combined acreage of 93.717 acres. The parcels are relatively level and are readily accessible by paved or dirt roads. Water and sewer services are available to all five parcels and will require separate connections at a minimum of three locations.

2.1.2 Water Demand

The water demand for Site 1 is 93,717 gpd or 65.08 gpm, calculated with an efficiency factor of 1.0 for Industrial Land Use at 1,000 gpd/acre.

2.1.3 Sewer Load

The sewer load for Site 1 is 42,829 gpd or 29.74 gpm, calculated with an efficiency factor of 1.0 for Industrial Land Use at 457 gpd/acre.

2.1.4 Cost Estimate

The total cost for extending water service to this site is \$430,000.00 which includes 12-inch C900 PVC pipe, butterfly valves, combination air valve assemblies, fire hydrant and fire service assemblies, and 3-inch water service assemblies.

The total cost for extending sewer facilities to this site is \$370,000.00 which includes 8-inch SDR 35 pipe, manholes, and service connections with laterals. This cost also includes a small lift station and approximately 1,400 LF of 3" force main.

The total cost for extending water and sewer service to these parcels is \$1,058,000.00 and includes mobilization, temporary erosion control and pavement patching for both the water and sewer facilities as well as design and contingency costs.

Table 1: Engineer's Opinion of Probable Construction Costs – Site 1: Industrial Site

Item	Description	Qty Total	Unit	1	Unit Cost	Total Cost
1	Mobilization/Demobilization	1	LS	\$	40,000.00	\$ 40,000.00
2	Temporary Erosion Control	1	LS	\$	20,000.00	\$ 20,000.00
3	Water Main	2,430	LF	\$	175.00	\$ 430,000.00
4	Sewer Main	975	EA	\$	150.00	\$ 150,000.00
5	Lift Station	1	EA	\$	150,000.00	\$ 150,000.00
6	3" Force Main	1,400	LF	\$	50.00	\$ 70,000.00
7	Pavement	1,900	SF	\$	3.50	\$ 7,000.00
			Co	nstru	ction Subtotal:	\$ 867,000.00
					Design (12%):	\$ 104,000.00
				Conti	ngency (10%):	\$ 87,000.00
				T(OTAL COST:	\$ 1,058,000.00

2.1.5 Impact to Existing System

The existing Industrial Park Lift Station is currently at capacity. The addition of approximately 30 gallons per minute of industrial sewer at Site 1 would require an upsize of the current lift station.

2.2 SITE 2 – TOMERA RANCH ROAD & SR 278

2.2.1 Description

The second site is comprised of one 39.991-acre parcel at the northeast corner of Tomera Ranch Road and SR 278. The lot is relatively level and is readily accessible by paved road.

2.2.2 Water Demand

The water demand for Site 2 is 39,991 gpd or 27.77 gpm, calculated with an efficiency factor of 1.0 for Industrial Land Use at 1,000 gpd/acre.

2.2.3 Sewer Load

The sewer load for Site 2 is 18,276 gpd or 12.69 gpm, calculated with an efficiency factor of 1.0 for Industrial Land Use at 457 gpd/acre.

2.2.4 Cost Estimate

The total cost for extending water service to this site is \$680,000.00 which includes 12-inch C900 PVC pipe, butterfly valves, combination air valve assemblies, fire hydrant and fire service assemblies, and 3-inch water service assemblies.

The total cost for extending sewer facilities to this site is \$404,000.00 which includes 8-inch SDR 35 pipe, manholes, and service connections with laterals. This cost also includes a small lift station and approximately 2,600 LF of 2" force main.

The total cost for water and sewer service to these parcels is \$1,445,000.00 and includes mobilization, temporary erosion control and pavement patching for both the water and sewer facilities as well as design, NDOT permitting, and contingency costs.

Table 2: Engineer's Opinion of Probable Construction Costs - Site 2: Tomera Ranch Rd & SR 278

Item	Description	Qty Total	Unit	Unit Cost	Total Cost
1	Mobilization/Demobilization	1	LS	\$ 56,000.00	\$ 56,000.00
2	Temporary Erosion Control	1	LS	\$ 30,000.00	\$ 30,000.00
3	Water Main Pipe	3,600	LF	\$ 175.00	\$ 630,000.00
4	Jack and Bore	1	EA	\$ 50,000.00	\$ 50,000.00
5	Sewer Main	1,000	EA	\$ 150.00	\$ 150,000.00
6	Lift Station	1	EA	\$ 150,000.00	\$ 150,000.00
7	2" Force Main	2,600	LF	\$ 40.00	\$ 104,000.00
8	Pavement	3,600	SF	\$ 3.50	\$ 13,000.00
			Co	nstruction Subtotal:	\$ 1,183,000.00
				Design (12%):	\$ 142,000.00
		Permittin	g - NDOT fo	or SR 278 crossing:	\$ 2,000.00
			(Contingency (10%):	\$ 118,000.00
				TOTAL COST:	\$ 1,445,000.00

2.2.5 Impact to Existing System

There will be no significant impact to the existing systems by extending water and sewer service to this site.

2.3 SITE 3 – CARLIN CROSSING PHASE 1

2.3.1 Description

The third site is comprised of one 187.34-acre parcel to the west of Newmont Road, north of Interstate 80. The parcel is not consistently level and has a series of ridges and valleys running east to west. In general, the site falls in elevation from west to east, with a sharp drop on the east boundary as it approaches the adjacent valley. The parcel has a series of dirt roads surrounding the outer boundaries of the parcel.

2.3.2 Water Demand

The water demand for Site 3 is 187,340 gpd or 130.10 gpm, calculated with an efficiency factor of 1.0, for Industrial Land Use at 1,000 gpd/acre.

2.3.3 Sewer Load

The sewer load for Site 3 is 85,614 gpd or 59.45 gpm, calculated with an efficiency factor of 1.0 for Industrial Land Use at 457 gpd/acre.

2.3.4 Cost Estimate

The total cost for extending water service to this site is \$140,000.00 which includes 12-inch C900 PVC pipe, butterfly valves, combination air valve assemblies, fire hydrant and fire service assemblies, and 3-inch water service assemblies. This cost also includes a jack and bore to extend water service under SR 766.

The total cost for extending sewer facilities to this site is \$285,000.00 which includes 8-inch SDR 35 pipe, manholes, and service connections with laterals. This cost also includes a small lift station and approximately 1,500 LF of 4" force main.

The total cost for water and sewer service to these parcels is \$575,000.00 and includes mobilization, temporary erosion control, and pavement patching for both the water and sewer facilities as well as design, NDOT permitting, and contingency costs. An NDOT permit for the water crossing at SR 766 will be required, as well as an NDOT permit for the sewer main in NDOT's I-80 right of way.

Table 3: Engineer's Opinion of Probable Construction Costs - Site 3: Carlin Crossing Ph 1

Item	Description	Qty Total	Unit	Unit Cost	r	Total Cost
1	Mobilization/Demobilization	1	LS	\$ 22,000.00	\$	22,000.00
2	Temporary Erosion Control	1	LS	\$ 15,000.00	\$	15,000.00
3	Water Main	300	LF	\$ 300.00	\$	90,000.00
4	Jack and Bore	1	EA	\$ 50,000.00	\$	50,000.00
5	Sewer Main	300	EA	\$ 150.00	\$	45,000.00
6	Lift Station	1	EA	\$ 150,000.00	\$	150,000.00
7	4" Force Main	1500	LF	\$ 60.00	\$	90,000.00
8	Pavement	1800	EA	\$ 3.50	\$	6,000.00
			Coı	nstruction Subtotal:	\$	468,000.00
				Design (12%):	\$	56,000.00
	Permitting - N	DOT for I-80, S	SR 766 @	\$2,000 per permit:	\$	4,000.00
			C	Contingency (10%):	\$	47,000.00
				TOTAL COST:	\$	575,000.00

2.3.5 Impact to Existing System

There will be no significant impact to the existing systems by extending water and sewer service to this site.

2.4 SITE 4: INTERCHANGE OF INTERSTATE 80 AND SR 278

2.4.1 Description

The fourth site is comprised of one 16.95-acre parcel on the west side SR 278, north of the I-80 westbound on-ramp. The parcel is relatively level and is readily accessible by paved and dirt roads.

2.4.2 Water Demand

The water demand for Site 4 is 16,950 gpd or 14.17 gpm, calculated with an efficiency factor of 1.0, for Industrial Land Use at 1,000 gpd/acre.

2.4.3 Sewer Load

The sewer load for Site 4 is 9,327 gpd or 6.48 gpm, calculated with an efficiency factor of .1.0 for Industrial Land Use at 457 gpd/acre.

2.4.4 Cost Estimate

The total cost for extending water service to this site is \$910,000.00 which includes 12-inch C900 PVC pipe, butterfly valves, combination air valve assemblies, fire hydrant and fire service assemblies, and 3-inch water service assemblies.

The total cost for extending sewer facilities to this site is \$825,500.00 which includes 8-inch SDR 35 pipe, manholes, and service connections with laterals. This cost also includes a small lift station and approximately 950 LF of 2" force main.

The total cost for water and sewer service to these parcels is \$2,303,500.00 and includes mobilization, temporary erosion control and pavement patching for both the water and sewer facilities as well as design, NDOT permitting, and contingency costs. The two NDOT permits will likely be extensive due to the close proximity to the interchange and crossings at SR 278 and I-80.

Table 4: Engineer's Opinion of Probable Construction Costs - Site 4: Interchange of I-80/SR 278

Item	Description	Qty Total	Unit		Unit Cost	Total
1	Mobilization/Demobilization	1	LS	\$	90,000.00	\$ 90,000.00
2	Temporary Erosion Control	1	LS	\$	40,000.00	\$ 40,000.00
3	Water Main	5,200	LF	\$	175.00	\$ 910,000.00
4	Sewer Main	4,250	EA	\$	150.00	\$ 637,500.00
5	Lift Station	1	EA	\$	150,000.00	\$ 150,000.00
6	2" Force Main	950	LF	\$	40.00	\$ 38,000.00
7	Pavement	2,100	EA	\$	3.50	\$ 7,000.00
Construction Subtotal:					\$ 1,872,500.00	
Design (12%):					\$ 225,000.00	
Permitting - NDOT for SR 278/I-80 (1%):					\$ 19,000.00	
Contingency (10%):					\$ 187,000.00	
TOTAL COST:					\$ 2,303,500.00	

2.4.5 Impact to Existing System

There will be no significant impact to the existing systems by extending water and sewer service to this site.

3.0 OVERALL IMPACT TO SYSTEM

If all four sites are developed as industrial properties, an additional 360,000 gpd of water demand and 165,000 gpd of sewer loading will be added to the existing infrastructure. An engineering analysis confirms there is capacity in the existing water supply and storage facilities to accommodate the demands added by the development of these sites. Additionally, the primary sewer lift station and force main have the capacity

to pump the additional wastewater flows. However, the wastewater treatment facility only has the excess capacity to treat up to an additional 125,000 gpd. Therefore, future development must be limited to no more than 125,000 gpd until improvements can be made to the wastewater treatment facility.

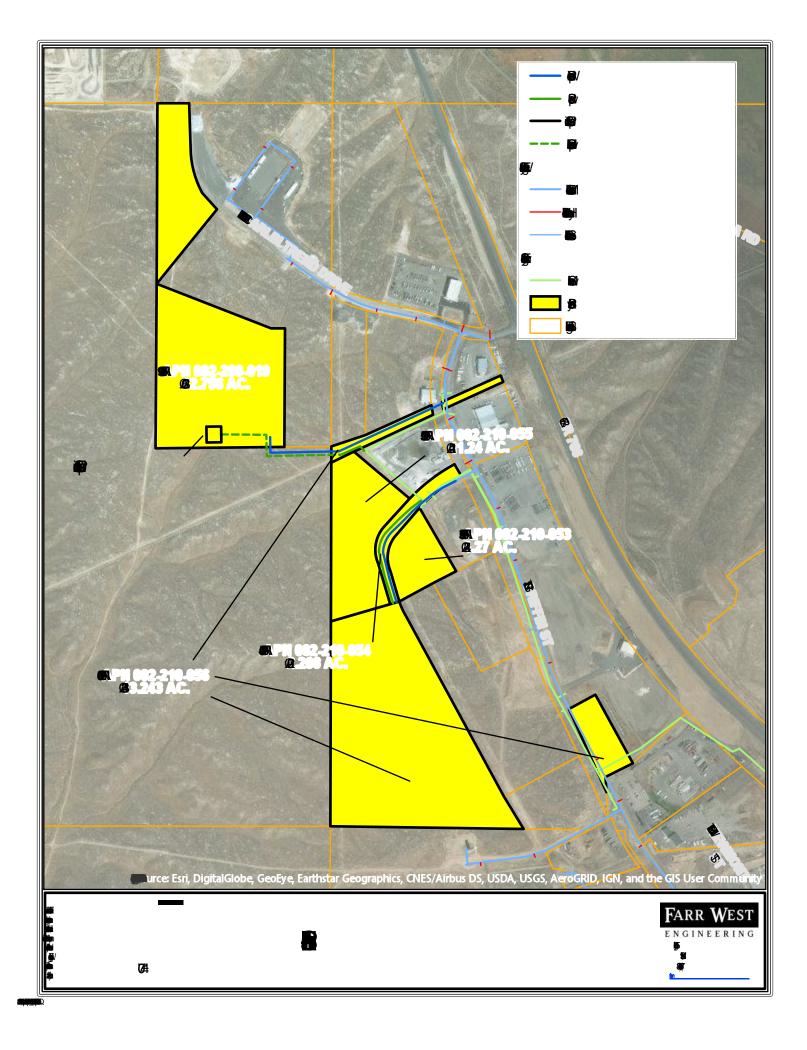
BROWNFIELD FEASIBILITY ANALYSIS SITE FIGURES

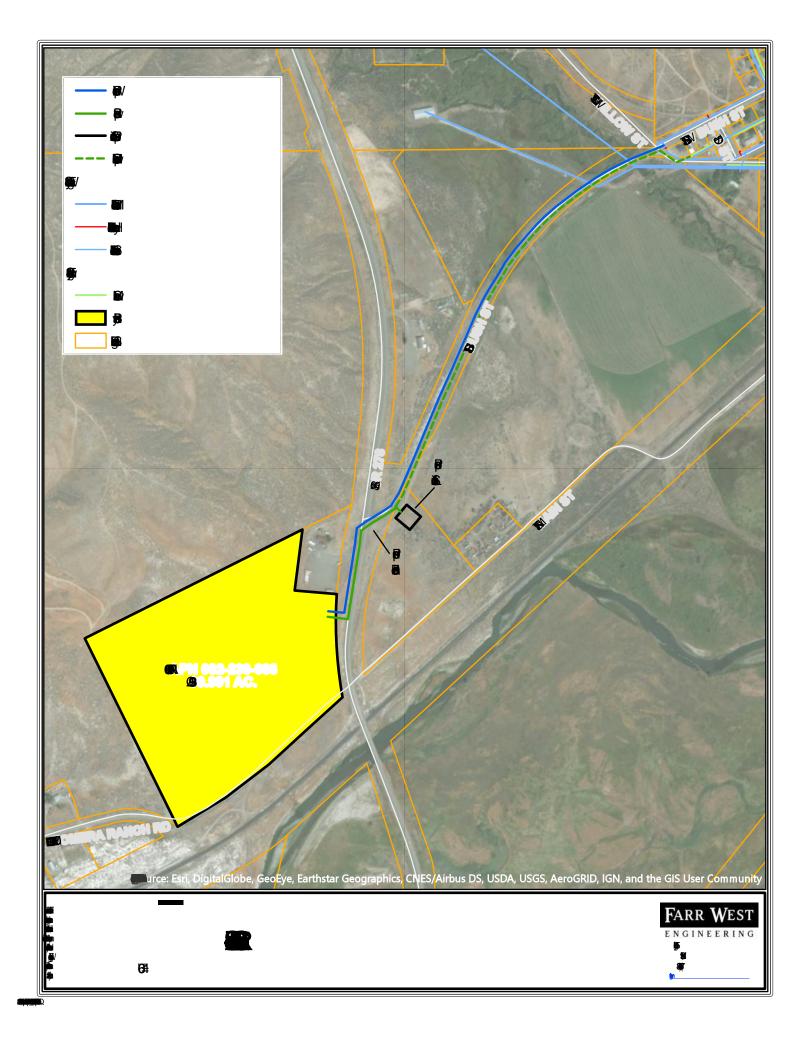
Site 1 – Industrial Park

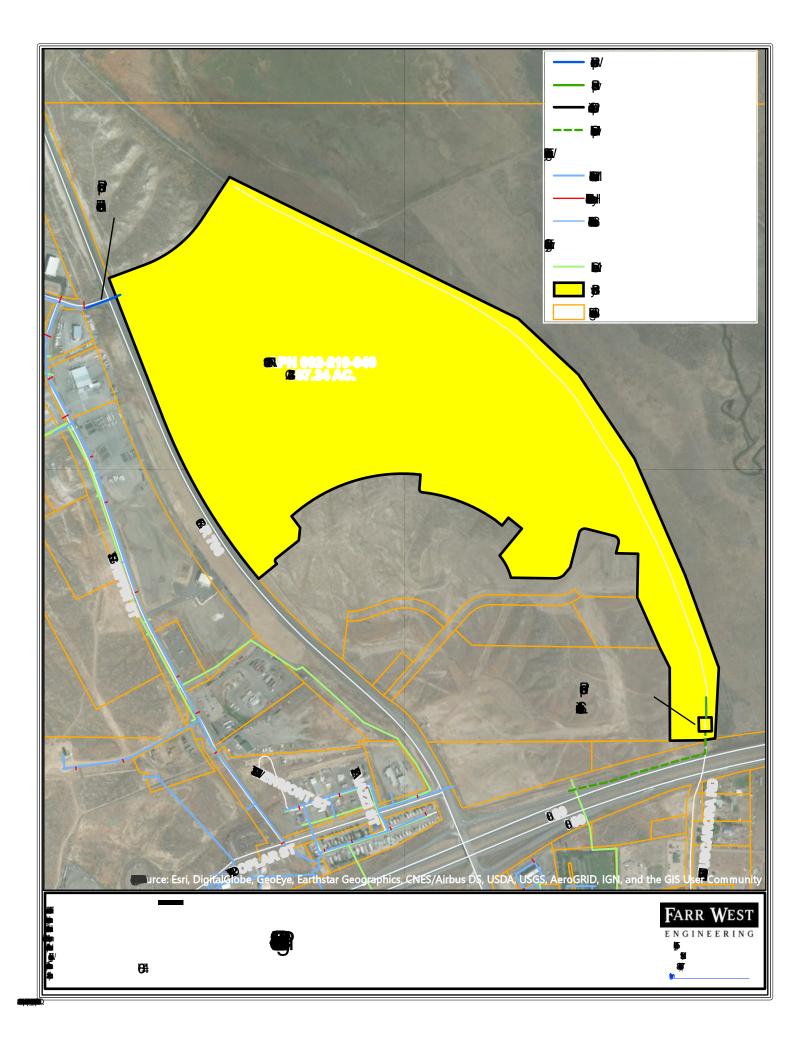
Site 2 – Tomera Ranch Rd & SR 278

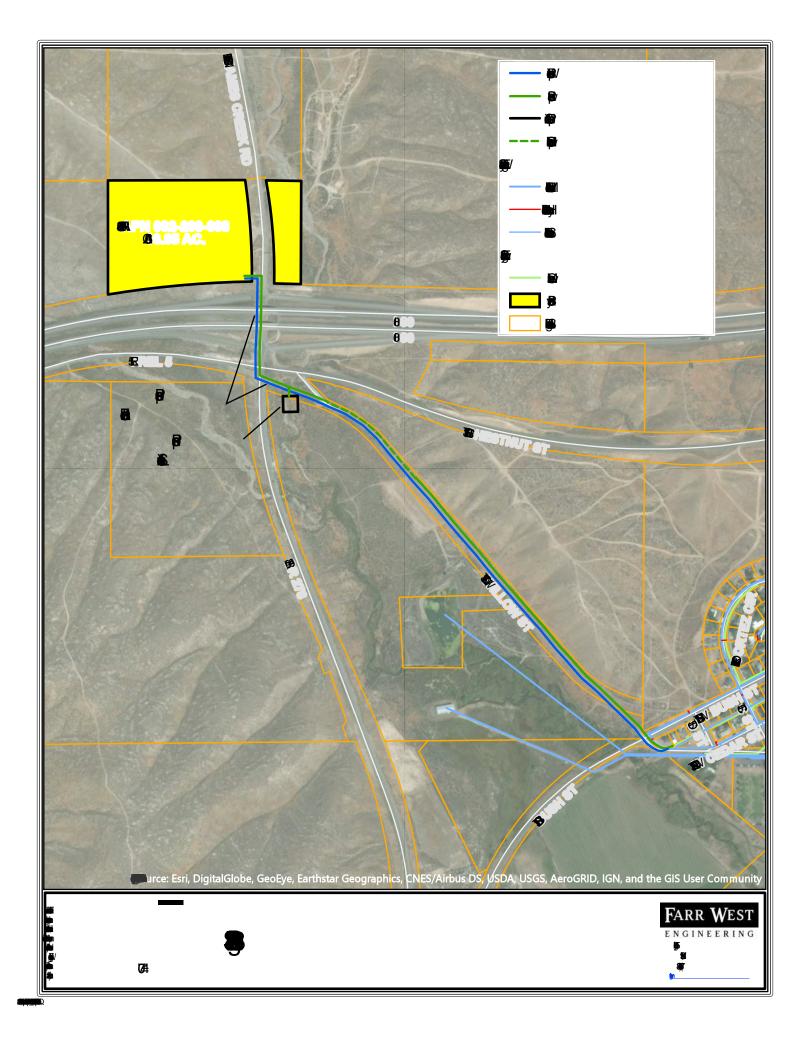
Site 3 – Carlin Crossing Phase 1

Site 4 – Interchange of I-80/SR 278









BROWNFIELD FEASIBILITY ANALYSIS APPENDIX A

System Storage Calculations

City of Carlin System Storage Calculations Brownsfield Sites

Sizing Analysis Scenarios

- 1. MDD + Fire Flow with all supply facilities operational
 - a. Operating Storage = 25% of Max Day Demand
 - b. Emergency Storage = 75% Operating Storage
- 2. ADD + Fire Flow with largest supply out of service
 - a. Operating Storage = 25% of Max Day Demand
 - b. Emergency Storage = 75% Operating Storage

Demand Data

		Demands (gpm)		
	No. Lots	ADD	MDD	PHD
Existing System Connections	841	400	800	-
New Lots	5	249	498	-
Totals	846	649	1,298	-

Total Supply

rotal Supply				
	System Pump			
	Capacity			
Well	(gpm)			
Hilltop Well	277			
Authur Spring/SP Spring	173			
Total	450			
Total without Largest Well	173			

Fire Flow Demand

	Flow (gpm)	Duration (hr)	Volume (gal)
Fire Demand (gpm)	2,500	2	300,000

Storage Volume (gal)

Total	2,634,000
-------	-----------

Table 1. City of Carlin System Existing Condition

	MDD + Fire v	v/all sources	ADD + Fire w/o	largest source
	Storage	.,	Storage	
	Requirement	Storage	Requirement	Storage
Storage Type	(gal)	Balance (gal)	(gal)	Balance (gal)
Full Tank		2,634,000		2,634,000
City of Carlin Supply		-504,183		-326,972
Daily Capacity		2,129,817		2,307,028
Fire Storage	300,000	1,829,817	300,000	2,007,028
Operating Storage	288,046	1,541,771	288,046	1,718,982
Emergency Storage	216,034	1,325,736	216,034	1,502,948

Table 2. City of Carlin System w/ Brownsfield Sites Condition

	MDD + Fire w/all sources		ADD + Fire w/o largest source	
	Storage		Storage	
	Requirement	Storage	Requirement	Storage
Storage Type	(gal)	Balance (gal)	(gal)	Balance (gal)
Full Tank		2,634,000		2,634,000
Lyon County Supply		-1,221,303		-685,532
Daily Capacity		1,412,697		1,948,468
Fire Storage	300,000	1,112,697	300,000	1,648,468
Operating Storage	467,326	645,371	467,326	1,181,142
Emergency Storage	350,494	294,876	350,494	830,648

City of Carlin System Storage Calculations Brownsfield Sites

WWTF lagoons permit limits = 500,000 gpd average, daily max = 900,000 gpd

Influent average of consistent* data available:

WW data average influent = 399,000 gpd**

Drinking water winter average usage = 363,000 gpd**

- *Inconsistencies in hand-written records of influent volume data
- ** Difference attributed in part to several basement sump pumps within City that discharge into the sewer system an unknown volume

WWTF available capacity = 100,000 gpd*

*Conservative for reliabe operation of the lagoons, with more accurate meter readings, likely an additional 25,000 gpd

APPENDIX G

UTILITY RATES, FINANCIAL STATEMENTS

Rate			Base Amount
Number	Description	Service	
101	WATER - RESIDENTIAL	1 (WATER)	32.2200
102	WATER FLAT RATE	1 (WATER)	10,0000
111	WATER-RV	1 (WATER)	12.8900
201	WATER METERED CITY LIMITS	2 (WATER METERED)	32.2200
202	WATER METERED OUTSIDE CITY	2 (WATER METERED)	.0000.
203	WATER FLAT RATE	2 (WATER METERED)	.0000
301	SEWER - RESIDENTIAL	3 (SEWER)	29.8500
302	SEWER FLAT RATE RV PARKS	3 (SEWER)	7.1600
311	SEWER-RV	3 (SEWER)	7,1600
401	BULK WATER	4 (BULK WATER)	.0000
501	LANDFILL - RESIDENTIAL	5 (LANDFILL)	14.3000
502	LANDFILL - COMMERCIAL 1-3 X WK	5 (LANDFILL)	61,4900
503	LANDFILL - DUMPSTER	5 (LANDFILL)	91.6900
601	LANDFILL 3YRD 3 TO 5 TIMES PER WEEK	6 (LANDFILL - DUMPSTER)	137.3800
602	LANDFILL-2yd	6 (LANDFILL - DUMPSTER)	61,4900
701	SEWER USE FEE - RESIDENTIAL	7 (SEWER USE FEE)	.0000.
901	STREET LIGHT - RESIDENTIAL	9 (STREET LIGHT)	2.3800
902	STREET LIGHT FLATE RATE RV PKS	9 (STREET LIGHT)	1.0000
911	STREET LIGHT-RV	9 (STREET LIGHT)	.5600
1301	SMALL CLAIMS FEES	13 (SMALL CLAIMS FEE)	.0000
1801	RECONNECT FEES	18 (RECONNECT FEE)	.0000
1901	PENALTY	19 (PENALTY)	15.0000
2101	NSF FEE	21 (NSF FEE)	.0000

water metered is based on fixture units x 32.22 to get base amount then, 00108 per gallon.

Water metered out side city limits is .00137 per gallon.

Excess amount is still debatable. Software Support ways it could be manuel billing amounts.

Rate Summary Report Dates: 01/01/2017 to 08/31/2017 Page: 1 Aug 18, 2017 10:27AM

Rate Number	Rate Description	Service	Number of Customers	Number of Units	Base/Minimum	Excess Amount	Adjustments	Total Amount	Usage
101	WATER - RESIDENTIAL	WA	800	949.7000	200,152.51	3,866.44	1,046.69-	202,972.26	750
102	WATER FLAT RATE	WA	1	1.0000	66.00	31.02	-	97.02	2
111	WATER-RV	WA	25	107.3300	8,927,95	354,53	_	9,282,48	596
201	WATER METERED CITY LIMITS	WM	11	36.4100	9,558.38	8,834.44	-	18,392.82	8,252,931
202	WATER METERED OUTSIDE CITY	WM	4	20.0000	6,770,40	3,092,25	-	9,862.65	4,660,000
301	SEWER - RESIDENTIAL	sw	777	947.9500	184,216.56	402.18	1,029.47-	183,589.27	782
302	SEWER FLAT RATE RV PARKS	sw	1	1.0000	46.54	44.46	-	91.00	2
311	SEWER-RV	SW	25	107.3300	4,957.98	211.98	-	5,169.96	605
401	BULK WATER	WA	2	2.0000		10.04	-	10.04	-
501	LANDFILL - RESIDENTIAL	LF	759	1,009.2000	94,861.46	1,144.36	538.98-	95,466.84	940
502	LANDFILL - COMMERCIAL 1-3 X WK	LF	26	28.0000	9,864.18	-	-	9,864,18	33
503	LANDFILL - DUMPSTER	1.F	20	35,5000	11,705.76	1,639.33	-	13,345.09	654
601	LANDFILL 3YRD 3 TO 5 TIMES PER		8	16.0000	13,188.48	-	137.38-	13,051.10	84
901	STREET LIGHT - RESIDENTIAL	LT	795	993,1300	15,714.76	32.11	82.26-	15,664.61	722
902	STREET LIGHT FLATE RATE RV PK	LT	1	49.0000	319.00	-	٠,	319.00	319
911	STREET LIGHT-RV	LT	23	57,3300	205.21	15.68		220,89	283
1801	RECONNECT FEES	RE	22	22.0000	•	510.00	-	510.00	23
1901	PENALTY	PN	296	300.0000	11,880.00	-	285,00-	11,595.00	
2101	NSF FEE	NS	9	9.0000	· -	326.46		326,46	· -
Gr	and Totals:		3,605	4,691.8800	572,435.17	20,515.28	3,119.78-	589,830.67	12,918,726

Rate Summary Report Dates: 01/01/2016 to 12/31/2016

Page: 1 Aug 18, 2017 10:31AM

Rate Number	Rate Description	Service	Number of Customers	Number of Units	Base/Minimum	Excess Amount	Adjustments	Total Amount	Usage
101	WATER - RESIDENTIAL	WA	040	074 9000	343 505 50	10.740.70	4 740 44	250 505 47	4 405
	• •		818	974.2000	343,505.50	10,740.78	1,740.11-	352,506,17	1,165
102	WATER FLAT RATE	WA	1	1.0000	116.00	56.87	•	172.87	4
111	WATER-RV	WA	28	110.3300	15,508.52	1,689.47	45,12-	17,152.87	1,140
201	WATER METERED CITY LIMITS	WM	11	36.4100	16,383.88	14,041.53	2.78	30,428,19	13,148,332
202	WATER METERED OUTSIDE CITY	WM	4	20.0000	11,606.40	3,149.66	-	14,756.08	5,622,000
301	SEWER - RESIDENTIAL	SW	796	972.9500	314,186.37	134.66	1,908.28-	312,412.75	1,184
302	SEWER FLAT RATE RV PARKS	sw	i	1,0000	82.34	81.51	-	163.85	4
311	SEWER-RV	SW	28	110.3300	8,614.55	945.67	54,93-	9,505,29	1,140
501	LANDFILL - RESIDENTIAL	LF	781	1,039.2000	162,690.97	2,821.61	1,159.14-	164,353.44	1,464
502	LANDFILL - COMMERCIAL 1-3 X WK	l.F	22	23.5000	14,188.57	778.68	-	14,967,25	42
503	LANDFILL - DUMPSTER	ŁF	23	38.5000	23,484.24	2,871.63	98.47-	26,257.40	1,094
601	LANDFILL 3YRD 3 TO 5 TIMES PER		11	20.0000	25,054.72	_	137.38-	24,917.34	144
602	LANDFILL-2yd		2	2.0000	186.66		75.19-	111,47	-
701	SEWER USE FEE - RESIDENTIAL	ŲF	1	1.0000	-		.01	.01	-
901	STREET LIGHT - RESIDENTIAL	LT	812	1,016.6300	26,868.10	13.20	126,53-	26,754.77	1,062
902	STREET LIGHT FLATE RATE RV PK	LT	2	62,0000	625.58	12.00	.82-	636,76	630
911	STREET LIGHT-RV	LT	26	60.3300	316.49	67.50	2.12-	381,87	511
1801	RECONNECT FEES	RE	35	35.0000	-	1,075.00	15.00-	1,060.00	48
1901	PENALTY	PN	348	348.0000	16,230.00	-	156.90-	16,073.10	
2101	NSF FEE	NS	8	8,0000	*	287.64	42,18	329.82	
Gr	and Totals:		3,758	4,880.3800	979,648.88	38,767.42	5,475.02-	1,012,941.28	18,779,966

Rate Summary Report Dates: 01/01/2015 to 12/31/2015

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Rate			Number of	Number					
Number	Rate Description	Service	Customers	of Units	Base/Minimum	Excess Amount	Adjustments	Total Amount	Usage
101	WATER - RESIDENTIAL	WA	839	1,030,7000	348,096.26	12,366.47	3,062.79-	357,399.94	878
102	WATER FLAT RATE	WA	1	1.0000	116.00	56.87	•	172.87	6
111	WATER-RV	WA	27	130,3300	15,677.07	2,456.08	460.86-	17,672,29	881
201	WATER METERED CITY LIMITS	WW	12	37.4100	16,383.46	13,859.89	314.28-	29,929.07	12,568,743
202	WATER METERED OUTSIDE CITY	WM	5	21.5000	11,605.40	2,792.85	2.34-	14,396.91	4,675,000
301	SEWER - RESIDENTIAL	sw	817	1,028.9500	319,330.35	2,618.67	2,667.33-	319,281.69	916
302	SEWER FLAT RATE RV PARKS	sw	1	1.0000	82.34	81.51	-	163,85	6
311	SEWER-RV	sw	27	130,3300	8,765.45	1,364.27	530,30-	9,599.42	936
501	LANDFILL - RESIDENTIAL	LF	809	1,104.7000	163,776.74	6,158.52	3,071.45-	166,863.81	848
502	LANDFILL - COMMERCIAL 1-3 X WK	LF	21	22.5000	14,387.48	209.42	•	14,596,90	49
503	LANDFILL - DUMPSTER	LF	27	43.5000	24,695.00	2,810.28	77.39-	27,427.89	1,081
601	LANDFILL 3YRD 3 TO 5 TIMES PER		11	20.0000	26,005.99	•	148.17-	25,857.82	141
602	LANDFILL-2yd		2	2.0000	156.49	-	-	156.49	-
701	SEWER USE FEE - RESIDENTIAL	UF	1	1.0000	-		.01	.01	-
901	STREET LIGHT - RESIDENTIAL	LT	834	1,074.6300	27,129.61	218.47	214.83-	27,133.25	598
902	STREET LIGHT FLATE RATE RV PK	LΥ	2	62.0000	699.00	20.50	_	719.50	603
911	STREET LIGHT-RV	LT	24	66.3300	293,55	94,66	46.33-	341,88	318
1301	SMALL CLAIMS FEES	SC	1	1.0000	-		_	.00.	3
1801	RECONNECT FEES	RE	35	35.0000	•	1,131.48	13.39-	1,118.09	47
1901	PENALTY	PN	380	380,0000	15,750.00		510,64-	15,239.36	-
2101	NSF FEE	NS	9	9.0000		10,120.58	9,818.56-	302.02	
Gr	and Totals:		3,885	5,202.8800	992,951.20	56,360.51	20,938.65-	1,028,373.06	17,251,052

Rate Summary Report Dates: 08/01/2014 to 12/31/2014 Page: 1 Aug 18, 2017 10:43AM

Rate Number	Rate Description	Service	Number of Customers	Number of Units	Base/Minimum	Excess Amount	Adjustments	Total Amount	Usage
101	WATER - RESIDENTIAL	WA	797	950,2000	148,315,29	6,379.59	835,51-	153,859.37	346
102	WATER FLAT RATE	WA	1	1.0000	50.00	25.85	_	75.85	1
111	WATER-RV	WA	21	111.3300	6,645.73	971,26	65,84-	7,551.15	295
201	WATER METERED CITY LIMITS	WM	12	37,4100	6,826.99	7,179,80	-	14,008,79	6,659,529
202	WATER METERED OUTSIDE CITY	WW	4	20.0000	4,836.00	2,661,31	-	7,497.31	2,749,970
301	SEWER - RESIDENTIAL	sw	787	960.9500	137,420.66	2,179,19	706,09-	138,893.76	3 6 5
302	SEWER FLAT RATE RV PARKS	sw	1	1.0000	35.80	37.05	-	72.85	1
311	SEWER-RV	SW	21	111,3300	3,691.47	539.51	48.55-	4,182,43	295
501	LANDFILL - RESIDENTIAL	LF	776	1,045,1000	71,225.06	3,094.53	827.38-	73,492.21	270
502	LANDFILL - COMMERCIAL 1-3 X WK	LF	20	21.5000	5,845.44		_	5,845.44	23
503	LANDFILL - DUMPSTER	LF	22	45,5000	9,584.66	3,371.51	733,52	13,689,69	458
601	LANDFILL 3YRD 3 TO 5 TIMES PER		8	17.0000	5,103.99	137,38	1,298,81-	3,942.56	47
701	SEWER USE FEE - RESIDENTIAL	UF	1	1,0000	-	2.38	-	2.38	-
901	STREET LIGHT - RESIDENTIAL	ŁT	798	1,006.1300	11,631.82	166,65	42,86-	11,755.60	230
902	STREET LIGHT FLATE RATE RV PK	LT	2	62,0000	300.69	5.00	8,08-	297.61	240
911	STREET LIGHT-RV	LT	18	48.3300	120.53	39.96	6.28-	154.21	55
1801	RECONNECT FEES	RE	23	23.0000	-	680.00	-	680.00	20
1901	PENALTY	PN	259	263,0000	6,720.00		330,00-	6,390,00	-
2101	NSF FEE	NS	4	4.0000	-	76.48	76.48	152.96	1
Gr	and Totals:		3,575	4,729.7800	418,354.14	27,547.43	3,359,40-	442,542.17	9,412,145

Rate Number	Description	Service	Base Amount
Muniper	Description	Service	
101	WATER - RESIDENTIAL	1 (WATER)	32.2200
102	WATER FLAT RATE	1 (WATÉR)	10.0000
111	WATER-RV	1 (WATER)	12.8900
201	WATER METERED CITY LIMITS	2 (WATER METERED)	32.2200
202	WATER METERED OUTSIDE CITY	2 (WATER METERED)	.0000.
203	WATER FLAT RATE	2 (WATER METERED)	0000,
301	SEWER - RESIDENTIAL	3 (SEWER)	29.8500
302	SEWER FLAT RATE RV PARKS	3 (SEWER)	7.1600
311	SEWER-RV	3 (SEWER)	7.1600
401	BULK WATER	4 (BULK WATER)	.0000.
501	LANDFILL - RESIDENTIAL	5 (LANDFILL)	14.3000
502	LANDFILL - COMMERCIAL 1-3 X WK	5 (LANDFILL)	61.4900
503	LANDFILL - DUMPSTER	5 (LANDFILL)	91,6900
601	LANDFILL 3YRD 3 TO 6 TIMES PER WEEK	6 (LANDFILL - DUMPSTER)	137,3800
602	LANDFILL-2yd	6 (LANDFILL - DUMPSTER)	61,4900
701	SEWER USE FEE - RESIDENTIAL	7 (SEWER USE FEE)	.0000
901	STREET LIGHT - RESIDENTIAL	9 (STREET LIGHT)	2.3800
902	STREET LIGHT FLATE RATE RV PKS	9 (STREET LIGHT)	1,0000
911	STREET LIGHT-RV	9 (STREET LIGHT)	.5600
1301	SMALL CLAIMS FEES	13 (SMALL CLAIMS FEE)	.0000
1801	RECONNECT FEES	18 (RECONNECT FEE)	.0000.
1901	PENALTY	19 (PENALTY)	15,0000
2101	NSF FEE	21 (NSF FEE)	.0000



Financial Statements
June 30, 2020
City of Carlin



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Independent Auditor's Report

To the Honorable Mayor and Members of the City Council City of Carlin State of Nevada

Report on the Financial Statements

We have audited the accompanying financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Carlin, State of Nevada (the City), as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City's basic financial statements as listed in the table of contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express opinions on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards*, issued by the Comptroller General of the United States. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the City's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinions.

Opinions

In our opinion, the financial statements referred to above present fairly, in all material respects, the respective financial position of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Carlin, State of Nevada, as of June 30, 2020, and the respective changes in financial position and, where applicable, cash flows thereof for the year then ended in accordance with accounting principles generally accepted in the United States of America.

Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that the Management's Discussion and Analysis on pages 4 through 11, budgetary comparison information on pages 47 through 50, the Schedule of Changes in the City's Total OPEB Liability and Related Ratios for the City of Carlin Employee Health Benefit Plan and State of Nevada Public Employees' Benefit Plan on pages 51 and 52, the Schedule of City's Share of Net Pension Liability on page 53 and the Schedule of the City's Contributions on page 54 be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

The budgetary comparison information is the responsibility of management and was derived from and relates directly to underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statement themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the budgetary comparison information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the City's financial statements. The combining and individual nonmajor fund financial statements, budgetary comparisons and schedule of fees imposed subject to the provision of NRS 354.5989 are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The combining and individual nonmajor fund financial statements and budgetary comparisons are the responsibility of management and were derived from and relate directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the combining and individual nonmajor fund financial statements and budgetary comparisons are fairly stated, in all material respects, in relation to the basic financial statements as a whole.

The schedule of fees imposed subject to the provision of NRS 354.5989 has not been subject to the auditing procedures applied in the audit of the basic financial statements and, accordingly, we do not express an opinion or provide any assurance on it.

Prior-Year Comparative Information

We have previously audited, in accordance with accounting standards general accepted in the United States of America, the basic financial statements of the City as of and for the year ended June 30, 2019, and have issued a report thereon dated December 11, 2019, which expressed an unmodified opinion on the respective financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information.

The individual fund financial statements and budgetary comparisons related to the 2019 financial statements are presented for purposes of additional analysis and were derived from and relate directly to the underlying accounting and other records used to prepare the 2019 financial statements. The information has been subjected to the auditing procedures applied in the audit of the 2019 basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare those financial statements or to those financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. The combining and individual fund financial statements and budgetary comparisons are consistent in relation to the basic financial statements from which they have been derived.

Other Reporting Required by Government Auditing Standards

In accordance with Government Auditing Standards, we have also issued our report dated January 22, 2021 on our consideration of the City's internal control over financial reporting and on our tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements and other matters. The purpose of that report is solely to describe the scope of our testing of internal control over financial reporting and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control over financial reporting or on compliance. That report is an integral part of an audit performed in accordance with Government Auditing Standards in considering the City's internal control over financial reporting and compliance.

Elko, Nevada

January 22, 2021

Esde Bailly LLP

The Management's Discussion and Analysis (MD&A) is presented to provide the reader with an overview of the financial activity and financial condition of the City of Carlin (City). This document is required by the Governmental Accounting Standards Board (GASB) in Statement No. 34 and subsequent statements governing the presentation of the financial statements, MD&A, and note disclosure for state and local governments. The major components of this financial report include:

- Management's Discussion and Analysis (MD&A)
- Basic Financial Statements
- Other Required Supplementary Information (RSI)

The MD&A, a component of RSI, introduces the basic financial statements and provides an analytical overview of the City's financial activities.

Overview of the Financial Statements

The City's basic financial statements include the following elements:

Government-wide Financial Statements

Government-wide financial statements provide both long-term and short-term information about the City's overall financial condition. Changes in the City's financial position may be measured over time by increases and decreases in the Statement of Net Position. Information on how the City's net position changed during the fiscal year is presented in the Statement of Activities.

Fund Financial Statements

Fund financial statements focus on individual parts of the City, reporting the City's operations in more detail than the government-wide financial statements. Fund financial statements include the statements for governmental, proprietary and fiduciary funds.

Notes to the Financial Statements

Notes to the financial statements provide additional information that is essential to the full understanding of the data provided in the government-wide and fund financial statements.

Refer to Note 1 to the financial statements for more detailed information on the elements of the financial statements. Table 1 below summarizes the major features of the basic financial statements.

Table 1: Major Features of the Basic Financial Statements

	Government-Wide Financial Statements	Governmental Funds	Fund Financial Statements Proprietary Funds	s Fiduciary Funds
Scope	Entire City Government (except fiduciary funds)	Activities of the City that are not proprietary or fiduciary	Activities of the City that are operated similar to private businesses	Instances in which the City is the trustee agent for someone else's resources
Required Financial Statements	Statement of Net Position, Statement of Activities	Balance Sheet, Statement of Revenues, Expenditures and Changes in Fund Balances	Statement of Net Position, Statement of Revenues, Expenses and Changes in Net Position, Statement of Cash Flows	Statement of Fiduciary Net Position, Statement of Changes in Fiduciary Net Position
Accounting Basis and Measurement Focus	Accrual accounting and economic resources focus	Modified accrual accounting and current financial resources focus	Accrual accounting and economic resources focus	Accrual accounting
Types of Asset/Liability/ Deferred Inflow/Outflow Information	All assets and liabilities both financial, capital assets and short-term and long-term, deferred inflows/outflows of resources	Only assets expected to be used up and liabilities that come due during the year or soon thereafter; no capital assets included. Deferred inflows/outflows are resources for which cash will be received or expended in a future period	All assets and liabilities, both financial, capital assets and short-term and long-term, deferred inflows/outflows of resources	Assets and liabilities held in fiduciary capacity
Type of Inflow/Outflow Information	All revenues and expenses during the year, regardless of when cash is received or paid	Revenues for which cash is received during or soon after the end of the year; expenditures when goods or services have been received and payment is due during the year or soon thereafter	All revenues and expenses during the year, regardless of when cash is received or paid	Revenues and expenses during the year, regardless of when cash is received or paid

Condensed Statement of Net Position

The largest component, \$7,865,351 of the City's net position reflects its investment in capital assets (i.e. land, infrastructure, buildings, equipment and others) less depreciation and any related debt outstanding that was needed to acquire or construct the assets. Capital Assets represent 52.6% of this City's total Net Position. The City uses these capital assets to provide services to the citizens and businesses in the City; consequently, these capital assets are not available for future spending. Although the City's investment in its capital assets is reported net of related debt, it should be noted that the resources needed to repay this debt must be provided from other sources, since the capital assets themselves cannot be used to liquidate these liabilities.

Table 2 below presents the City's condensed statement of net position. These are derived from the government-wide Statement of Net Position.

Table 2: Condensed Statement of Net Position

		Governmen	tal Ac	tivates		Business-ty	pe Ac	tivities	To	tal	
		2020		2019		2020		2019	2020		2019
Current and other assets Capital Assets	\$	7,960,528 4,915,083	\$	7,505,504 5,163,768	\$	2,435,596 2,832,871	\$	2,463,443 2,827,684	\$ 10,396,124 7,747,954	\$	9,968,947 7,991,452
Total Assets	_	12,875,611	_	12,669,272	_	5,268,467		5,291,127	 18,144,078		17,960,399
Deferred outflows of resources		290,594		284,532	_	82,314		90,294	 372,908		374,826
Other liabilities Long-term liabilities		149,011		448,591		40,513		84,262	189,524		532,853
Due in one year		33,334		68,381		29,330		32,223	62,664		100,604
Due in more than one year		2,175,637		2,176,719		599,943	_	607,797	 2,775,580		2,784,516
Total liabilities	_	2,357,982		2,693,691		669,786	_	724,282	 3,027,768		3,417,973
Deferred inflows of resources		396,826		408,416		129,089		132,107	525,915		540,523
Net investment in capital assets Restricted Unrestricted		5,032,480 162,373 5,216,544		5,032,481 138,786 4,680,430	_	2,832,871 - 1,719,035		2,827,684 - 1,697,348	7,865,351 162,373 6,935,579		7,860,165 138,786 6,377,778
Total net position	\$	10,411,397	\$	9,851,697	\$	4,551,906	\$	4,525,032	\$ 14,963,303	\$	14,376,729

Changes in Net Position

Table 3 presents the City's changes in net position, as derived from the government-wide Statement of Activities. Over time, increases and decreases measure whether the City's financial position is improving or deteriorating. During the fiscal year, the net position of the governmental activities increased by \$559,700 and the net position of the business-type activities increased by \$26,874.

Table 3: Change in Net Position

	Governmen	tal Activates	Business-type Activities			Total				
	2020	2019		2020		2019		2020		2019
Program revenues			-							
Charges for services	\$ 182,978	\$ 171,393	\$	1,062,692	\$	1,031,911	\$	1,245,670	\$	1,203,304
Operating grants contributions	160,168	258,621		-		-		160,168		258,621
Capital grants and contributions	64,205	22,491		1,000	_	1,000		65,205		23,491
Total programs revenues	407,351	452,505		1,063,692	_	1,032,911	_	1,471,043		1,485,416
General revenues										
Taxes										
Property	462,257	439,107		-		-		462,257		439,107
Room	27,915	40,490		-		-		27,915		40,490
Fuel	50,825	52,738		-		*		50,825		52,738
Consolidated tax revenues	2,136,777	2,292,642		-		-		2,136,777		2,292,642
Interest and investment										
earnings	2,326	8,550		18,389		18,264		20,715		26,814
Gain on sale of capital assets	-	10,000		-		-		-		10,000
Miscellaneous	83,458	61,661		-		2,296		83,458		63,957
Total general revenues	2,763,558	2,905,188		18,389	_	20,560		2,781,947	_	2,925,748
Total revenues	3,170,909	3,357,693		1,082,081	_	1,053,471		4,252,990		4,411,164
Program expenses										
General government	751,105	677,106		_		-		751,105		677,106
Public safety	989,442	920,282		-		_		989,442		920,282
Judicial	66,389	56,676		_		-		66,389		56,676
Public works	355,770	310,440		-		-		355,770		310,440
Health and sanitation	101,675	100,448						101,675		100,448
Culture and recreation	341,078	344,489		-		_		341,078		344,489
Water				480,638		487,333		480,638		487,333
Garbage	-			156,400		151,276		156,400		151,276
Sewer	_	-		387,883		360,634		387,883		360,634
Street lights	-	-		30,286		27,590		30,286		27,590
Interest on long-term debt	5,750	6,017		-	_	-		5,750		6,017
Total expenses	2,611,209	2,415,458		1,055,207		1,026,833		3,666,416		3,442,291
Change in net position	559,700	942,235		26,874		26,638		586,574		968,873
5								/		/
Net position, beginning of year	9,851,697	8,909,462		4,525,032		4,498,394		14,376,729	_	13,407,856
Net position, end of year	\$ 10,411,397	\$ 9,851,697	\$	4,551,906	\$	4,525,032	\$	14,963,303	\$	14,376,729

Program Expenses and Revenues for Governmental Activities

Table 4 presents program expenses and revenues for governmental activities. Generally, program revenues were not sufficient to cover program expenses for governmental activities. The net program expenses of these governmental activities were, therefore, supported by general revenues, which are derived primarily from consolidated tax revenue from the State and from property taxes.

Table 4: Program Expenses and Revenues for Governmental Activities For the Fiscal Year Ended June 30, 2020

City Programs	Program Expenses		Progr	am Revenues	Net Program (Expenses)/Revenues		
General Government	\$	751,105	\$	-	\$	(751,105)	
Public Safety		989,442		134,172		(855,270)	
Judicial		66,389				(66,389)	
Public Works		355,770		59,915		(295,855)	
Health and Sanitation		101,675		979		(100,696)	
Culture and Recreation		341,078		212,285		(128,793)	
Interest Long-term Debt		5,750		-		(5,750)	
Total	\$	2,611,209	\$	407,351	\$	(2,203,858)	

Program Expenses and Revenues for Business-type Activities

Table 5 presents program expenses and revenues for business-type activities. Program revenues generated from business-type activities were not sufficient to cover program expenses.

Table 5: Program Expenses and Revenues for Business-type Activities For the Fiscal Year Ended June 30, 2020

City Programs	Progr	Progi	ram Revenues	t Program ses)/Revenues	
Water Garbage Sewer Street Lights	\$	480,638 156,400 387,883 30,286	\$	448,624 252,265 332,517 30,286	\$ (32,014) 95,865 (55,366)
Total	\$	1,055,207	\$	1,063,692	\$ 8,485

Financial highlights for the City during the fiscal year ended June 30, 2020, include the following:

- The City's total Net Position for all activities increased from \$14,376,729 to \$14,963,303 an increase of \$586,574 (4.1%). This increase is attributable to continued expense control by all departments because of uncertain revenue projections. General Fund expenditures were lower than budgeted amounts by \$1,086,063 (35.0 %). General Fund revenues were also better than projected by \$211,693 (8.2 %) due to a conservative estimate of budgeted revenues during budgeting.
- Capital assets added during the year in the amount of \$294,633 include improvements to City buildings and facilities, the City Park, one new cargo van for Senior Center, completion of phase one of fire station and improvements to main sewer lift station.
- The City's Business-type Activities (Utility Fund) operating revenues exceeded operating expenses by \$7,485. As an Enterprise Fund, the Utility Fund is required to generate operating revenues sufficient to offset operating expenses. Excess revenues year to year are used for maintenance and eventual replacement of older infrastructure. A Preliminary Engineering Report (PER) was completed and a refurbishment plan is underway using the PER.

Fund Analysis

All Governmental Funds

At the close of the fiscal year ending June 30, 2020, the City's governmental funds reported a combined ending fund balance of \$7,721,838, representing an increase of \$757,566 (10.9 %) from the previous fiscal year. The increase across all governmental funds is the result of the following factors:

- Expense control by all departments.
- Increased revenue from higher than projected revenues.

General Fund

Fund balance at June 30, 2020 totaled \$5,806,796 which is an increase of \$376,444 (6.9%) from the previous fiscal year. The increase is due to lower than budgeted expenses and an increase in revenues from taxes.

Capital Projects Fund

Fund balance at June 30, 2020 totaled \$1,009,488 which is an increase of \$377,454 (59.7 %) from the previous year. The increase is due to lower than budgeted expenses.

Non-major Governmental Funds

Fund balance at June 30, 2020 totaled \$905,554 which is an increase of \$3,668 (0.4 %) from the previous fiscal year. The following table shows the fund balances that are included in the Non-major Governmental Funds, as of June 30, 2020 and the increase/(decrease) from the previous fiscal year:

Fund	Fund Balance June 30, 2020	Increase/ Decrease		
Non-Major Governmental Funds:				
Grants Fund	\$ 51,286	\$ (3,682)		
Open Door Senior Citizens Fund	180,927	15,016		
Municipal Court Building Fund	4,510	(4,335)		
Administrative Assessment Fund	11,246	2,092		
Park and Recreation Fund	255,116	(4,416)		
Parks and Recreation Fund #2	87,821	(1,702)		
Equestrian Center Fund	81,254	19,198		
Debt Service Fund	41,126	(12,100)		
Police Forfeiture Fund	100,781	(7,452)		
Perpetual Cemetery Care Fund	 91,487	 1,049		
Totals	\$ 905,554	\$ 3,668		

Proprietary Funds

The City's sole Proprietary Fund, the Utility Fund, had a net position of \$4,551,906 as of June 30, 2020. Operating revenues exceeded operating expenses by \$7,485.

Capital Asset and Long-term Debt Activity

Capital Asset Activity

At June 30, 2020, the City reported \$4,915,083 in capital assets for governmental activities and \$2,832,871 in capital assets for business-type activities. Capital asset additions included improvements to City buildings and facilities, the City Park, one new cargo van for Senior Center, completion of phase one of fire station and improvements to main sewer lift station.

Long-term Debt Activity

Long-term debt outstanding at June 30, 2020, excluding the annual required contribution for other postemployment benefits and the net pension liability, totaled \$124,937, which is entirely for the Senior Center. The other postemployment benefits liability increased by \$1,088 to \$359,171. The City's net pension liability decreased by \$17,144 to \$2,237,855.

Additionally, the City estimates \$116,281 for compensated absences.

For additional information, refer to Notes 6, 7 and 11 in the financial statements.

Requests for Information

This financial report is designed to provide a general overview of the financial activity of the City of Carlin to all having an interest in the City of Carlin. Questions concerning any of the information provided in this report or requests of additional financial information should be addressed to the City of Carlin, Attn: City Manager, P.O. Box 787, Carlin, Nevada 89822.

	Governmental Activities	Business-Type Activities	Total
Assets		4	
Cash	\$ 7,367,403	\$ 2,342,545	\$ 9,709,948
Accounts receivable, net	86,909	88,031	174,940
Due from other governments	434,879	-	434,879
Taxes receivable, delinquent	14,783	-	14,783
Prepaid expenses	11,450	5,020	16,470
Restricted cash	45,104	-	45,104
Capital assets, net of accumulated depreciation	4,094,664	2,754,816	6,849,480
Capital assets, not being depreciated	820,419	78,055	898,474
Total assets	12,875,611	5,268,467	18,144,078
Deferred Outflows of Resources			
Deferred outflows related to other postemployment benefits	14,196	4,751	18,947
Deferred outflows related to pensions	276,398	77,563	353,961
Total deferred outflows of resources	290,594	82,314	372,908
Total Assets and Deferred Outflows of Resources	13,166,205	5,350,781	18,516,986
Liabilities			
Accounts payable and other	101,362	23,449	124,811
Accrued salaries and related liabilities	16,571	-	16,571
Due to other governments	17,717	4,810	22,527
Customer meter deposits	-	12,254	12,254
Unearned revenue - grants	13,361	-	13,361
Noncurrent liabilities portion due or payable within one year	,,		,
Compensated absences	26,700	29,330	56,030
Notes payable	6,634	23,330	6,634
Noncurrent liabilities portion due or payable	0,034		0,054
after one year			
Compensated absences	41,278	18,973	60,251
Notes payable	118,303	18,973	118,303
Total other postemployment benefits liability	286,535	72,636	359,171
Net pension liability	1,729,521	508,334	2,237,855
Total liabilities	2,357,982	669,786	3,027,768
Deferred Inflows of Resources			
Deferred inflows related to pensions	396,826	129,089	525,915
Total Liabilities and Deferred Inflows of Resources	2,754,808	798,875	3,553,683
Net Position			
Net investment in capital assets	5,032,480	2,832,871	7,865,351
Restricted for			
Debt service	12,100	-	12,100
Nonspendable perpetual cemetery care	33,004	-	33,004
Perpetual cemetery care	58,483	-	58,483
Capital projects	27,454	-	27,454
Senior Center	15,576	-	15,576
Judicial fees (NRS 176)	15,756	-	15,756
Unrestricted	5,216,544	1,719,035	6,935,579
Total net position	\$ 10,411,397	\$ 4,551,906	\$ 14,963,303

Net (Expense) Revenue and

			Program Revenues			Changes in Net Position						
		0	Оре	erating	C	Capital			Prima	ry Government		
		Charges for	Gra	nts and		ants and	Gov	vernmental	Bu	siness-Type		
Functions/Programs	Expenses	Services	Contr	ributions	Cont	tributions		Activities	38	Activities		Total
Governmental Activities	_								,			
General government	\$ 751,105	\$ -	\$	*	\$	=	\$	(751,105)	\$	=	\$	(751,105)
Public safety	989,442	69,967		-		64,205		(855,270)		=		(855,270)
Judicial	66,389	.=		-		=		(66,389)		=		(66,389)
Public works	355,770	59,915		=		=		(295,855)		-		(295,855)
Health and sanitation	101,675	-		979		*		(100,696)		=		(100,696)
Culture and recreation	341,078	53,096		159,189		-		(128,793)		黨		(128,793)
Interest on long-term debt	5,750			-				(5,750)		,, <u>-</u>		(5,750)
Total governmental activities	2,611,209	182,978		160,168	-	64,205		(2,203,858)				(2,203,858)
Business-type Activities												
Water	480,638	448,624		-		-		_		(32,014)		(32,014)
Garbage	156,400			-				-		95,865		95,865
Sewer	387,883	130000000000000000000000000000000000000		_		1,000		=		(55,366)		(55,366)
Street lights	30,286	30,286		-		3		=				
Total business-type activities	1,055,207	1,062,692	at processores	-		1,000				8,485		8,485
Total primary government	\$ 3,666,416	\$ 1,245,670	\$	160,168	\$	65,205		(2,203,858)		8,485		(2,195,373)
	Property taxes							462,257		7.2		462,257
	Room taxes							27,915		s =		27,915
	Consolidated tax	revenues - unrestricte	d					2,136,777		3. - 0:		2,136,777
	Fuel taxes							50,825		:		50,825
	Interest and inve	stment earnings						2,326		18,389		20,715
	Miscellaneous re	venue						83,458		-		83,458
	Total general r	evenues						2,763,558		18,389	_	2,781,947
	Change in Net Po	osition						559,700		26,874		586,574
	Net Position, Beg	ginning of Year						9,851,697		4,525,032		14,376,729
	Net Position, End	d of Year					\$	10,411,397	\$	4,551,906	\$	14,963,303

		General		Capital Projects Fund	Gov	Other vernmental Funds	Go	Total vernmental Funds
Assets	\$	5,507,557	ć	1 002 147	ć	956 600	ć	7 267 402
Cash	Ş	5,507,557	\$	1,003,147	\$	856,699	\$	7,367,403
Receivables, net		72 402				12 507		96 000
Accounts Taxes		73,402		-		13,507		86,909 14,783
Due from other governments		14,783 406,257		6,341		22,281		434,879
Prepaid expenses		8,934		0,541		2,516		11,450
Restricted cash		0,354		-		45,104		45,104
Restricted Casil					-	43,104		45,104
Total assets	\$	6,010,933	\$	1,009,488	\$	940,107	\$	7,960,528
Liabilities								
Accounts payable	\$	84,198	\$	-	\$	16,972	\$	101,170
Accrued salaries and related	•	,						,
liabilities		16,571		-		_		16,571
Bail and fines held		192		-		_		192
Due to other governments		16,497		-		1,220		17,717
Unearned revenue - grants				-		13,361		13,361
-			4					
Total liabilities		117,458				31,553		149,011
			-					
Deferred Inflows of Resources								
Unavailable property taxes		14,783		-		-		14,783
Unavailable infrastructure tax								
revenue		44,225		-		-		44,225
Unavailable ambulance fees		27,671		-		-		27,671
Unavailable grant revenue		-				3,000	_	3,000
Total deferred inflows		06.670				2 000		00.670
of resources		86,679	-			3,000		89,679
Fund Balances								
Nonspendable		8,934		900		35,520		44,454
Restricted for		8,334		_		33,320		44,434
Debt service				_		12,100		12,100
Perpetual cemetery care		_		_		58,483		58,483
Capital projects		_		27,454		50,405		27,454
Senior Center		_		27,434		15,576		15,576
Judicial fees (NRS 176)		_		_		15,756		15,756
Committed for						13,730		-
Future community development	+	-				60,052		60,052
Recreational activities	-	_		_		282,885		282,885
Public safety		-		-		100,781		100,781
Assigned		-						,
Subsequent year operations		3,112,528		-		34,200		3,146,728
Other purposes				982,034		290,201		1,272,235
Unassigned		2,685,334		-		-		2,685,334
-			·					
Total fund balances		5,806,796	_	1,009,488		905,554		7,721,838
Total Liabilities, Deferred Inflows of								
	ć	6.010.022	ć	1 000 499	ć	040 107	خ	7 060 520
Resources, and Fund Balances	<u>\$</u>	6,010,933	\$	1,009,488	\$	940,107	\$	7,960,528
Con Notes to Financial Statements								1.4

Amounts reported for governmental	activities in the statement of net	position are different because:
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Amounts reported for governmental activities in the statement of net position are different because:							
Total fund balances - governmental funds \$ 7,721,8							
The net investment in capital assets is not reported in the government statements because they are not current financial resources, but the in the statement of net position.							
Capital assets Less accumulated depreciation	\$ 12,728,374 (8,633,710)		4,094,664				
Capital assets, not being depreciated	820,419		820,419				
Unavailable revenue represents amounts that are not available to fund expenditures, and therefore, are not reported as revenue in the gor funds. Long-term liabilities are not due and payable in the current period and not reported in the governmental funds.		89,679					
Net pension liability Notes payable Other postemployment benefits Compensated absences Deferred outflows and inflows of resources related to pensions and otl benefits are applicable to future periods and, therefore, are not reggovernmental funds.		nt	(2,208,971)				
Deferred outflows of resources related to pensions Deferred inflows of resources related to pensions Deferred outflows of resources related to other postemployment benefits	276,398 (396,826) 14,196		(106,232)				
Net position of governmental activities		\$	10,411,397				

City of Carlin Statement of Revenues, Expenditures, and Changes in Fund Balances – Governmental Funds Year Ended June 30, 2020

D	General	Capital Projects Fund	Other Governmental Funds	Total Governmental Funds
Revenues Taxes Licenses, permits and fees Intergovernmental Charges for services Fines and forfeits Miscellaneous	\$ 432,790 59,915 2,200,165 35,318 25,790 45,461	\$ 39,759 - - - - - 3,270	\$ 27,915 - 220,394 19,138 - 63,957	\$ 500,464 59,915 2,420,559 54,456 25,790 112,688
Total revenues	2,799,439	43,029	331,404	3,173,872
Expenditures Current General government	744,590	_	_	744,590
Public safety Judicial Public works	919,530 50,374 163,452	-	6,078 16,367	925,608 66,741 163,452
Health and sanitation Culture and recreation Capital outlay Debt service	70,707 18,012 53,830	- - 15,575	275,968 69,723	70,707 293,980 139,128
Principal Interest			6,350 5,750	6,350 5,750
Total expenditures	2,020,495	15,575	380,236	2,416,306
Excess (Deficiency) of Revenues Over (Under) Expenditures	778,944	27,454	(48,832)	757,566
Other Financing Source (Uses) Transfer in Transfer out	17,500 (420,000)	350,000	90,000 (37,500)	457,500 (457,500)
Total other financing sources (uses)	(402,500)	350,000	52,500	
Net Change in Fund Balances	376,444	377,454	3,668	757,566
Fund Balances, Beginning of Year	5,430,352	632,034	901,886	6,964,272
Fund Balances, End of Year	\$ 5,806,796	\$ 1,009,488	\$ 905,554	\$ 7,721,838

Amounts reported for governmental activities in the statements of activities are different because	use:				
Net change in fund balances - total governmental funds	\$	757,566			
Capital outlays to purchase or build capital assets are reported in governmental funds as expenditures. However, those costs are shown in the statement of net position and allocated over their estimated useful lives as depreciation expense in the statement of activities. This is the amount by which depreciation exceeded capital outlays in the current period.					
Capital outlay to purchase capital assets Current depreciation expense \$\frac{139,128}{(387,813)}\$		(248,685)			
Revenue in the statement of activities that do not provide current financial resources are not reported as revenues in the funds.					
Change in unavailable property taxes Change in unavailable ambulance fees Change in unavailable grant revenue Change in unavailable infrastructure tax revenue (4,530)		(2,963)			
Long-term liabilities, include notes payable, that are not due and payable in current period and therefore are not reported in the governmental funds.					
Note payable - principal payments		6,350			
Some expenses reported in the statement of activities do not require the use of current financial resources and, therefore, are not reported as expenditures in governmental funds.					
Current year change in compensated absences		24,650			
Governmental funds report City PERS contributions as expenditures. However, in the statement of activities, the cost of pension benefits earned is reported as pension expense:					
City PERS contributions 137,372 City pension expense (114,998)		22,374			
The liability for other postemployment benefits is not recorded in the governmental funds, but it is reported in the statement of net position. This is the current year change in the liability, reported as an expense in the statement of activities.					
Other postemployment benefits contributions 14,198 Other postemployment benefits expense (13,790)		408			
Change in net position of governmental activities	\$	559,700			

	Business-Type Activities Enterprise Fund Utility Fund
Assets Current Assets	
Cash	\$ 2,342,545
Accounts receivable, net Prepaid expenses	88,031 5,020
Treputa experises	
Total current assets	2,435,596
Noncurrent Assets	
Capital assets, net of accumulated depreciation	2,754,816
Capital assets, not being depreciated	78,055
Total noncurrent assets	2,832,871
Total assets	5,268,467
Deferred Outflows of Resources	
Deferred outflows related to other postemployment benefits	4,751
Deferred outflows related to pensions	77,563
Total deferred outflows of resources	82,314
Liabilities	
Current Liabilities	
Accounts payable	23,449 4,810
Due to other governments Compensated absences, current portion	29,330
Customer meter deposits	12,254
Total current liabilities	69,843
Noncurrent Liabilities	19 072
Compensated absences Net pension liability	18,973 508,334
Total other postemployment benefits liability	72,636
Total noncurrent liabilities	599,943
Total liabilities	669,786
Deferred Inflows of Resources	
Deferred inflows related to pensions	129,089
Net Position	
Net investment in capital assets	2,832,871
Unrestricted	1,719,035
Total net position	\$ 4,551,906

Operating Revenues	Business-Type Activities Enterprise Fund Utility Fund
Charges for sales and services Water (pledge for revenue bond coverage) Garbage Sewer Street lights	\$ 448,624 252,265 331,517 30,286
Total operating revenues	1,062,692
Operating Expenses Salaries and wages Employee benefits Services and supplies Depreciation Total operating expenses	297,536 145,340 462,013 150,318
Operating Income	7,485
Nonoperating Revenues	
Interest and penalties earned	18,389
Income Before Capital Contributions	25,874
Capital Contributions	1,000
Change in Net Position	26,874
Net Position, Beginning of Year	4,525,032
Net Position, End of Year	\$ 4,551,906

Operating Activities	A Ente	iness-Type activities rprise Fund ility Fund
Cash received from customers Cash payments to employees for services and benefits Cash payments to suppliers for goods and services	\$	1,067,476 (448,661) (511,615)
Net Cash from Operating Activities		107,200
Capital and Related Financing Activities Acquisition of capital assets Connection fees		(155,505) 1,000
Net Cash used for Capital and Related Financing Activities		(154,505)
Investing Activity Interest on investments		18,389
Net Change in Cash		(28,916)
Cash, Beginning of Year		2,371,461
Cash, End of Year	\$	2,342,545

	A Ente	Business-Type Activities Enterprise Fund Utility Fund	
Reconciliation of operating income to net cash from			
operating activities	۸.	7.405	
Operating income	\$	7,485	
Adjustments to reconcile operating income to net cash			
from operating activities		150,318	
Depreciation Pension expense		29,948	
City pension contributions		(35,775)	
Other postemployment benefits expense		(138)	
Changes in		(130)	
Accounts receivable		(26)	
Prepaid expenses		(1,043)	
Accounts payable		(42,949)	
Accrued expenses		(620)	
Total Adjustments		99,715	
Net Cash from Operating Activities	\$	107,200	

Note 1 - Summary of Significant Accounting Policies

The City of Carlin (the City) was incorporated April 17, 1971 per Chapter 344, Statutes of Nevada 1971. The City is governed by an elected Council of four Councilmen and a Mayor who hold the final decision-making authority and are held primarily accountable for those decisions. The Council is responsible for approving the budget, establishing spending limitations, funding any deficits and borrowing funds and/or issuing bonds to finance City operations and construction.

The accounting policies of the City conform to accounting principles generally accepted in the United States of America as applicable to governmental entities. The Governmental Accounting Standards Board (GASB) is the accepted standard setting body for establishing these accounting and financial principles.

The accounting and reporting framework and the more significant accounting policies are as follows:

Reporting Entity

The accompanying financial statements include all the activities that comprise the financial reporting entity of the City. The City is legally separate and fiscally independent of other governing bodies. No other governmental organizations are includable within the City's reporting entity.

Government-Wide and Fund Financial Statements

The basic financial statements consist of government-wide statements and the fund financial statements. The government-wide financial statements include a statement of net position and a statement of activities. The government-wide statements report information on all of the activities of the City since the City does not have any fiduciary activities. For the most part, the effect of interfund activity has been removed from these statements. Governmental activities, which normally are supported by taxes and intergovernmental revenues, are reported separately from business-type activities, which rely to a significant extent on fees and charges for support.

The statement of net position presents the consolidated financial position of the City at year-end in separate columns, for both governmental and business-type activities. The statement of activities demonstrates the degree to which the direct expenses of a given function or segment are offset by program revenues. Direct expenses are those that are clearly identifiable with a specific function or segment. Program revenues include charges to patrons who use or directly benefit from goods, services, or privileges provided by a given function, and grants and contributions that are restricted to meet the operational or capital requirements of a particular function or segment. Taxes and revenues not properly included among program revenues are reported instead as general revenues. Those programs or functions with a net cost not supported by program revenues are generally dependent on general-purpose revenues, such as taxes and unrestricted interest earnings, to remain operational. When both restricted and unrestricted resources are available for use, it is the City's policy to use restricted resources first, then unrestricted resources as they are needed.

Separate fund financial statements are provided for governmental funds, and proprietary funds. Major individual governmental funds and major individual enterprise funds are reported as separate columns in the fund financial statements. All other funds are aggregated into a single column.

Measurement Focus, Basis of Accounting, and Financial Statement Presentation

Government-Wide Financial Statements

The government-wide financial statements are reported using the economic resources measurement focus and the accrual basis of accounting, as are proprietary fund financial statements. Revenues are recorded when earned and expenses are recorded when a liability is incurred, regardless of the timing of related cash flows. Property taxes are recognized as revenue in the year for which they are levied. Grants and similar items are recognized as revenue as soon as all eligibility requirements imposed by the provider have been met. Grant revenues have been reported as unearned revenue if the funds have been received prior to meeting such requirements.

Fund Financial Statements

Governmental fund financial statements are reported using the current financial resources measurement focus and the modified accrual basis of accounting. Revenues are recognized as soon as they are both measurable and available. Revenues are considered "measurable" when in the hands of intermediary collecting agents or governments. Revenues are considered available when they are collectible within the current period or soon enough thereafter to pay liabilities of the current period. For this purpose, the City considers all revenues available if they are collected within 60 days after the end of the current fiscal period. Anticipated refunds of taxes are recorded as liabilities and reductions of revenue when they are measurable, and the payment seems certain. Expenditures are generally recorded when a liability is incurred, as under accrual accounting. However, debt service expenditures, as well as expenditures related to compensated absences and claims and judgments, are recorded only when payment is due.

Property taxes, franchise taxes, licenses, and interest associated with the current fiscal period are all considered to be susceptible to accrual and so have been recognized as revenues of the current fiscal period. Only the portion of special assessments receivable due within the current fiscal period is considered to be susceptible to accrual as revenue of the current period. All other revenue items are considered to be measurable and available only when cash is received by the City.

The major revenue sources of the City include consolidated tax revenues, ad valorem (property) taxes, governmental services tax, interest income and various state and federal grants. Ad valorem taxes have been deferred in the governmental funds if they are not available to finance the activities of the current period.

The City's financial records are organized on the basis of funds, which are independent fiscal and accounting entities with a separate set of self-balancing accounts. Fund accounting segregates funds according to their intended purpose and is used to aid management in demonstrating compliance with finance-related legal and contractual provisions.

The City reports the following major governmental funds:

- General Fund is the primary operating fund of the City. It accounts for all financial resources and costs of
 operations traditionally associated with governments, which are not required to be accounted for in
 another fund.
- Capital Projects Fund accounts for financial resources used for the acquisition or construction of major capital assets.

The City reports the following major proprietary fund:

 Utility Fund accounts for all revenues and expenses used to provide water, sewer, garbage and street light services to the City's residents.

Proprietary funds distinguish operating revenues and expenses from nonoperating items. Operating revenues and expenses generally result from providing services or producing and delivering goods in connection with the proprietary funds' principal ongoing operations. Revenues and expenses not meeting this definition are reported as nonoperating revenues and expenses.

The City reports the following non-major governmental fund types:

- Special Revenue Funds account for specific financial resources that are legally restricted to expenditure for specific purposes.
- Debt Service Funds account for the servicing of general long-term debt not being financed by proprietary funds.
- Permanent Funds account for financial resources that are legally restricted to the extent that only earnings and not principal may be used for purposes that support the City's programs.

Budgets and Budgetary Accounting

The City adheres to the Local Government Budget Act incorporated in Section 354 of the Nevada Revised Statutes. The City is required to legally adopt budgets for all funds except fiduciary funds. The budgets are filed as a matter of public record with the City Clerk, the County Clerk and the State Department of Taxation. The City staff use the following procedures to establish, modify, and control the budgetary information that is included in these financial statements.

- 1. On or before April 15, the City Council files a tentative budget with the Nevada Department of Taxation for all funds for the fiscal year beginning the following July 1. The tentative budget is prepared by fund, function and department and includes proposed expenditures and the means of financing them.
- 2. Public budget hearings on the tentative budget are held in May.
- 3. Prior to June 1, at a public hearing, the Council indicates changes, if any, to be made to the tentative budget and adopts a final budget by the majority vote of the Council. The final budget must then be forwarded to the Nevada Department of Taxation for final approval. The above dates may be adjusted as necessary during legislative years.

- 4. Formal budgetary integration in the financial records of all funds is employed to enhance management control during the year, however encumbrance accounting is not utilized. All appropriations lapse at the end of the fiscal year.
- 5. The appropriated budget amounts may be transferred between functions, funds, or contingency accounts if the transfer does not increase the total appropriations for fiscal year amounts subject to advisement of the Council at the next subsequent meeting and must be recorded in the minutes of the meeting. Budget augmentations and amendments in excess of original budgetary amounts require prior approval of the City Council following a scheduled and noticed public hearing.
- 6. Budgets for all funds are adopted on a basis consistent with accounting principles generally accepted in the United States of America (GAAP). Budgeted amounts reflected in the accompanying financial statements recognize budget amendments made during the year in accordance with the above procedures.
- 7. In accordance with state statute, actual expenditures may not exceed budgetary appropriations of the various functions of the governmental funds, except for bond repayments, short-term financing repayment and any other long-term contract expressly authorized by law, and certain other items specified in NRS 354.626. For proprietary funds, the sum of operating and nonoperating expenses may not exceed the sum of budgeted operating and nonoperating expenses.

Property Taxes

Taxes on real property are levied and the lien attached on July 1 (the levy date) of the year for which the taxes are levied. Taxes are due on the third Monday of August; however, they may be paid in quarterly installments payable on the third Monday of August and the first Mondays in October, January and March. Any tax paid more than ten days late is assessed a penalty. In the event of nonpayment, a tax lien is taken on the first Monday in May, and the County Treasurer is authorized to hold the property for two additional years, subject to redemption upon payment of taxes, penalties and costs, together with interest at the rate of 10% per year from the date the taxes were due until paid. If delinquent taxes are not paid within the two-year redemption period, the County Treasurer, upon approval of the Board of County Commissioners, obtains a tax deed to the property free of all encumbrances. Upon receipt of a deed, the County Treasurer may sell the property to satisfy the tax lien.

The State of Nevada limits the total taxes levied by all overlapping governmental units within the boundaries of Elko County (i.e., the county, the state, the school district, the city, and any other city, town or special district) to an amount not to exceed \$3.64 per \$100 of assessed valuation of the property being taxed, except in cases of severe financial emergency as defined by NRS 354.705.

Property tax revenue and the related receivable have been recognized for property tax assessments in the fiscal year for which they were levied. All property taxes are collected by Elko County and remitted to the City monthly.

Cash

For purposes of the statement of cash flows, the City considers all time deposits, certificates of deposit, and all highly liquid investments, generally with original maturities of three months or less to be cash equivalents.

Cash balances from most funds are combined, held and invested by City staff. Interest earned on the cash balances is generally recognized in the fund holding the cash.

Debt loan agreements require the City to maintain a debt service reserve for each loan. These amounts are reported as restricted cash.

State statutes authorize deposits in any bank, credit union or savings and loan that are federally insured. The City may invest in the following securities:

- United States bonds and debentures, bills and notes of the United States Treasury, or obligations of the Unites States or a corporation sponsored by the government maturing within ten (10) years from the date of purchase.
- Certain farm loan bonds.
- Negotiable certificates of deposit from commercial banks, insured credit unions or insured savings and loan associations.
- State of Nevada Local Government Pooled Investment Fund.
- Certain securities issued by local governments of the State of Nevada.
- Certain "AAA" rated money market mutual funds that invest in federal securities.
- Other securities expressly provided by other statues, including repurchase agreements.
- Certain banker's acceptances not to exceed 180 days maturities or 20% of the money available for investment.
- Obligations of state and local governments rated A or higher and exempt from gross income for federal income tax purposes.
- Certain corporate or depository institution commercial paper purchased from a registered broker-dealer rated A-1, P-1, or better with maturity of no more than 270 days.

Any securities purchased by or on behalf of the City must remain in the physical possession of an appropriate officer of the City or a trust department of a designated bank (federally insured) after issuing a written acknowledgment.

Accounts Receivable

Accounts receivable are reported net of an allowance of uncollectible accounts, if applicable. No allowance for uncollectible accounts has been established since management does not anticipate any material collection loss with respect to taxes receivable. Total accounts receivable in the General Fund of \$334,039 are reported at \$73,402, net of a \$260,637 allowance for uncollectible ambulance billings and accounts receivable in the Utility Fund of \$88,083 are reported at \$88,031, net of a \$52 allowance for uncollectable utility billings.

Inventories

Expenditures for consumable supplies and minor equipment purchases are charged against appropriations at the time of purchase. Any inventories of such supplies at June 30 are not material to the individual funds and are not recognized in these financial statements.

Capital Assets

Capital assets, which include property, plant and equipment, and infrastructure, are recorded in the government-wide and proprietary fund financial statements. Capital assets are defined by the City as assets with an initial, individual cost of more than \$1,500 and an estimated useful life in excess of one year. These assets are recorded at historical cost if purchased or constructed. Donated capital assets are recorded at their acquisition value determined at the date of donation. Interest, if applicable, is capitalized on assets acquired with tax-exempt debt for business-type activities. The amount of interest to be capitalized is determined by offsetting interest expense incurred from the date of the borrowing until completion of the project with interest earned on invested proceeds over the same period.

Depreciation of all exhaustible capital assets is recorded as an allocated expense in the Statement of Activities and the Proprietary Fund Statement of Revenues, Expenses and Changes in Net Position, with accumulated depreciation reflected in the government-wide and proprietary fund Statement of Net Position. Depreciation is provided over the assets' estimated useful lives using the straight-line method of depreciation. The range of estimated useful lives by type of asset is as follows:

Buildings	15–100 years
Equipment and vehicles	5-25 years
Infrastructure	5-50 years

In the fund financial statements, capital assets used in governmental fund operations are accounted for as capital outlay expenditures by the governmental fund upon acquisition. Capital assets used in proprietary fund operations are accounted for as capital assets in the Statement of Net Position – Proprietary Funds.

Compensated Absences

Employees may accumulate unused vacation time within certain limits. Unused vacation time is paid to the employee after his/her anniversary date. After five years of employment, employees will be paid for sick leave up to 480 hours at one-fourth of the regular rate of pay at separation from service. If employment termination is due to death, any unused sick leave will be paid at the regular rate of pay. Accumulated costs for unused vacation pay and sick leave are recognized currently for those retiring prior to year-end. Remaining costs of unused vacation and sick leave are not recorded in the governmental fund financial statements but are included in the government-wide financial statements. These benefits have typically been paid from the General Fund.

Pensions

For purposes of measuring the net pension liability and pension expense, information about the fiduciary net position of the Public Employees' Retirement System of the State of Nevada (PERS) Base Plan (Base Plan) and additions to/deductions from Base Plan's fiduciary net position have been determined on the same basis as they are reported by the Base Plan. For this purpose, benefit payments (including refund or employee contributions) are recognized when due and payable in accordance with the benefit terms. Investments are reported at fair value.

Other Post-Employment Benefits

In addition to pension benefits (Public Employees Retirement System) described in Note 7 and postemployment healthcare benefits described in Note 11, the City waives monthly utility bills for certain retired employees per the City's Personnel Policy Manual section 5.16. The benefit terminates upon the death of the retiree. The City funds the benefit on a current basis and, as of June 30, 2020, the City had no retirees utilizing the benefit. The City had \$0 associated with the above benefit for the year ended June 30, 2020.

Deferred Inflows and Outflows of Resources

In addition to assets, the Statements of Net Position/Governmental Funds Balance Sheet may report a separate section for deferred outflows of resources. This separate statement element represents the consumption of net position/fund balance that applies to future periods and so will not be recognized as an outflow of resources (expense/expenditure) until then. The City reported deferred outflows of resources related to other postemployment benefits resulting from the City's contributions subsequent to the measurement date of the net other postemployment liability. The City reported deferred outflows of resources related to pensions resulting from the City's contributions subsequent to the measurement date of the net pension liability, differences between expected and actual experience, changes in assumptions, and change in the employer's proportion and difference between the employer's contributions and the employer's proportionate contributions in the Statement of Net Position.

In addition to liabilities, the Statements of Net Position/Governmental Funds Balance Sheet may report a separate section for deferred inflows of resources. This separate statement element represents an acquisition of net position/fund balance that applies to future periods and so will not be recognized as an inflow of resources (revenue) until that time. The City reflects deferred inflows of resources which are unavailable revenue reported in the governmental fund balance sheet for delinquent property taxes, grants, and other taxes received beyond 60 days of year end and uncollected ambulance fees under the modified accrual basis of accounting. The City reported deferred inflows of resources related to pensions resulting from differences between expected and actual experience, net difference between projected and actual earnings on pension plan investments, and change in the employer's proportion and differences between the employer's contributions and the employer's proportionate contributions in the Statement of Net Position.

Fund Balance/Net Position

Government-wide and Proprietary Fund Financial Statements:

The government-wide and proprietary fund Statement of Net Position utilizes a net position presentation. Net position is categorized as net investment in capital assets, restricted, and unrestricted. Net investment in capital assets is the net book value of capital assets, less related debt. Related debt is the debt outstanding that relates to the acquisition, construction, or improvement of capital assets.

Governmental Fund Financial Statements:

In the governmental fund financial statements, governmental funds report the following classifications of fund balance:

- Nonspendable Amounts that cannot be spent because they are either not spendable in form or are legally or contractually required to be maintained intact.
- Restricted Amounts that can be spent only for specific purposes because of constitutional provisions, enabling legislation, or because of constraints that are externally imposed by creditors, grantors, contributors, or the law or regulations of other governments.
- Committed Amounts that can only be used for specific purposes. Committed fund balance is reported
 pursuant to resolutions passed by the City Council, the City's highest level of decision-making authority.
 Committed amounts may only be established, amended, or rescinded pursuant to Council resolution.
- Assigned Amounts that the City intends to use for a specific purpose, but do not meet the definitions of restricted or committed fund balance. Under the City's adopted policy, amounts may be assigned by the City Manager or City Clerk under the authorization of the City Council.
- Unassigned Amounts that have not been assigned to other funds or restricted, committed, or assigned
 to a specific purpose within the General Fund. In accordance with an ordinance enacted by the City of
 Carlin on June 8, 2011, the City has adopted a policy to maintain a minimum level of unassigned fund
 balance for the General Fund of not less than 75% of the previous year's unrestricted general fund
 expenditures.

When an expenditure is incurred for purposes for which both restricted and unrestricted amounts are available, the City considers restricted funds to have been spent first. When an expenditure is incurred for which committed, assigned, or unassigned amounts are available, the City considers amounts to have been spent first out of committed funds, then assigned funds, and finally, unassigned funds, as needed, unless the City Council has provided otherwise in its commitment or assignment actions.

Risk Management

The City, like any governmental entity, is exposed to various risks of loss related to torts; theft of, damage to, and destruction of assets; errors and omissions; injuries of employees; and natural disasters. The City assesses these risks and utilizes risk management provided through the Nevada Public Agency Insurance Pool (POOL) created through an inter-local cooperative agreement by participating Nevada governments.

The City participated in Agency programs designed to reduce risk loss by governments. Members pay an annual premium and specific deductibles, as necessary, to POOL for its general insurance coverage. POOL is considered a self-sustaining risk pool that will provide coverage for its members for up to \$10,000,000 per event and a \$10,000,000 general aggregate per member. POOL obtains independent coverage for insured events in excess of the \$200,000 limit and claims have not exceeded these amounts during the previous three years.

The City also pays premiums based on payroll costs to the Public Agency Compensation Trust (PACT) for workers compensation coverage. PACT is considered a self-sustaining pool that will provide coverage based on established statutory limits.

Use of Estimates

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect certain reported amounts and disclosures. Accordingly, actual results could differ from these estimates.

Comparative Data

Comparative data shown in the supplementary information sections for the prior year has been extracted from the 2018-2019 financial statements and reclassified where necessary and practical to afford better comparability between the years. It has been provided to add comparability but is not considered full disclosure of transactions for 2018-2019. Such information can only be obtained by referring to the audited financial statements for that year.

Note 2 - Compliance with Nevada Revised Statutes and Nevada Administrative Code

The City conformed to all significant statutory constraints on its financial administration during the year.

Note 3 - Cash

As defined in Note 1, Nevada Revised Statutes (NRS 355.170) set forth acceptable investments for Nevada local governments. The City has not adopted a formal investment policy that would further limit its investment choices nor further limit its exposure to certain risks as set forth below. As of and for the year ended June 30, 2020, the City had no investments, only cash balances.

<u>Custodial Credit Risk</u> – Custodial credit risk is the risk that in the event of a bank failure, the City's deposits may not be returned. All deposits were collateralized under the Nevada Pooled Collateral Program or insured by the Federal Deposit Insurance Corporation (FDIC).

Cash held by the City as of June 30, 2020 are allocated to the various funds as follows:

Major governmental funds Nonmajor governmental funds Business-type activities/proprietary fund	\$ 6,510,704 856,699 2,342,545
Restricted: Nonmajor governmental funds	 45,104
	\$ 9,755,052

Note 4 - Capital Assets

The amounts recorded as capital assets are summarized as follows:

Governmental Activities Balance Balance July 1, 2019 Additions Deletions Transfers June 30, 2020 Capital Assets, Being Depreciated \$ \$ **Buildings** 2,475,530 \$ 25,623 704,674 \$ 3,205,827 Office equipment 152,458 3,088 155,546 Other equipment 2,272,257 13,786 2,286,043 Vehicles 2,164,384 57,279 2,221,663 Infrastructure 4,819,943 39,352 4,859,295 Total capital assets, being depreciated 139,128 704,674 11,884,572 12,728,374 Less Accumulated Depreciation for **Buildings** (993,078)(65,855)(1,058,933)Office equipment (134,085) (3,901)(137,986) Other equipment (1,565,758)(94,021)(1,659,779)Vehicles (1,797,409)(61,058)(1,858,467)Infrastructure (3,755,567) (162,978)(3,918,545)Total accumulated depreciation (8,245,897)(387,813)(8,633,710) Total capital assets, being depreciated, net 3,638,675 (248,685)704,674 4,094,664 Capital Assets, not Being Depreciated Land 820,419 820,419 704,674 (704,674) Construction in progress Total capital assets, not being depreciated 1,525,093 (704,674)820,419 Governmental Activities Capital Assets, Net 5,163,768 \$ (248,685)4,915,083

Business-type Activities												
	1.	Balance		A d ditions		Dolotion		т	ransfers		I.v.	Balance
Capital Assets, Being Depreciated Buildings Office equipment Other equipment Vehicles Infrastructure	\$	292,162 21,526 497,222 424,545 6,424,764	\$	- - 2,725 - 152,780	\$	Deletion	- - - -	\$	ransters	-	\$	292,162 21,526 499,947 424,545 6,577,544
Total capital assets, being depreciated		7,660,219		155,505						_		7,815,724
Less Accumulated Depreciation for Buildings Office equipment Other equipment Vehicles Infrastructure		(81,598) (19,177) (352,121) (424,545) (4,033,149)		(5,928) (405) (12,120) - (131,865)			:			-		(87,526) (19,582) (364,241) (424,545) (4,165,014)
Total accumulated depreciation		(4,910,590)		(150,318)			<u> </u>					(5,060,908)
Total capital assets, being depreciated, net		2,749,629		5,187						_		2,754,816
Capital Assets, Not Being Depreciated Land		78,055		-	-					_		78,055
Business-type Activities Capital Assets, Net	\$	2,827,684	\$	5,187	\$		<u>.</u>	\$		_	\$	2,832,871
Depreciation expense was charg	ed t	o functions,	/prog	grams of the	City	as foll	ows:					
Governmental Activities General government Public safety Public works Health and sanitation Culture and recreation										\$		20,341 86,429 195,958 32,656 52,429
Total Depreciation Expense – G	ove	nmental Ac	tiviti	es						\$		387,813
Business-type Activities Water Sewer										\$		48,163 102,155
Total Depreciation Expense – Bo	usin	ess-type Act	ivitie	es .						\$		150,318

Note 5 - Cooperative Agreement

On January 9, 2002 the City of Carlin, City of Elko, and Elko County entered into a cooperative agreement to provide financial resources for a water-line extension project. The water line initially served the University of Nevada-Reno Fire Science Academy that was deemed beneficial to the economy of the three governmental entities. The water line is the property of the City of Carlin. The project was funded by a federal grant obtained by the City of Carlin. This grant required matching funds of twenty-five percent. Therefore, a loan was obtained from the U.S. Department of Agriculture, Rural Development Agency. The cooperative agreement provides that the City of Elko and Elko County will each reimburse the City of Carlin one-third of the annual loan payments the City of Carlin will be obligated to pay to the USDA. The loan carries a maximum interest rate of 5% per year, payable over a period of forty years in annual payments of \$20,398. The City of Elko and Elko County have each agreed to pay to the City of Carlin the maximum sum of \$6,800 per year until the loan is paid in full or for a maximum of forty years. The loan was paid in full during the year ended June 30, 2018.

The City of Carlin has enacted an ordinance providing for a water extension connection fee. This fee will be collected by the City of Carlin as a surcharge fee from every water user connecting to City water within the "UNR Fire Science Academy Water Extension Area" for a period of forty years after the date the extension line is connected to the City of Carlin's water system. The City of Carlin agrees the proceeds collected from this water extension connection fee will be used to reimburse equally the City of Elko and Elko County for the payments made by them prior to the collection of any connection extension fees. Any excess funds collected will be used to reduce debt incurred for the project.

The City of Carlin has received pledged revenues totaling \$82,826 since the cooperative agreement was put into place. Pledged revenues are a surcharge fee from every water user connecting to City water within the "UNR Fire Science Academy Water Extension Area". There was only one connection to this section of the City's water system during the year ended June 30, 2020.

Note 6 - Long-Term Liabilities

Long-term debt as of June 30, 2020, consisted of the following:

Balance
June 30, 2020

Governmental activities

Direct Borrowing:

Note payable United States Department of Agriculture, Rural Development,
\$12,100 annually including interest at 4.38%, maturing June 28, 2034. The note
is for construction of a senior citizens facility and is secured by the facility.

\$ 124,937

The governmental activities notes will be repaid by the Debt Service Fund. The maturity of the notes payable for the years after June 30, 2020, based upon present arrangements, is as follows:

			Government-Type Activities				
				U.S. Departn			
				of Agricult			
				Senior Citizens	Facility		
Fiscal Year Ended June 30,				Principal	Interest		
2021 2022 2023 2024 2025 2026-2030 2031-2034			\$	6,634 \$ 6,925 7,227 7,544 7,874 44,847 43,886	5,466 5,175 4,876 4,556 4,226 15,653 4,950		
Changes in Long-Term Liabilities	s		\$	124,937 \$	44,902		
	Balance July 1, 2019	Additions	Reductions	Balance June 30, 2020	Due Within One Year		
Governmental activities Compensated absences Notes payable	\$ 92,628 131,287	\$ 54,091	\$ 78,741 6,350	\$ 67,978 124,937	\$ 26,700 6,634		
	\$ 223,915	\$ 54,091	\$ 85,091	\$ 192,915	\$ 33,334		
Business-type activities Compensated absences	\$ 48,123	\$ 30,727	\$ 30,547	\$ 48,303	\$ 29,330		

The City was, in accordance with Nevada Revised Statutes, within the legal debt limit at June 30, 2020.

Note 7 - Defined Benefit Pension Plan

Plan Description

The City of Carlin contributes to the Public Employees' Retirement System of the State of Nevada (PERS). PERS administers a cost-sharing, multiple-employer, defined benefit public employees' retirement system which includes both Regular and Police/Fire members. PERS was established by the Nevada Legislature in 1947, effective July 1, 1948. PERS is administered to provide a reasonable base income to qualified employees who have been employed by a public employer and whose earnings capacities have been removed or substantially impaired by age or disability.

Benefits Provided

Benefits, as required by the Nevada Revised Statutes (NRS or statute), are determined by the number of years of accredited service at time of retirement and the member's highest average compensation in any 36 consecutive months with special provisions for members entering PERS on or after January 1, 2010 and July 1, 2015. Benefit payments to which participants or their beneficiaries may be entitled under the plan include pension benefits, disability benefits, and survivor benefits.

Monthly benefit allowances for members are computed as 2.5% of average compensation for each accredited year of service prior to July 1, 2001. For service earned on and after July 1, 2001, this multiplier is 2.67% of average compensation. For members entering PERS on or after January 1, 2010, there is a 2.5% multiplier and for regular members entering PERS on or after July 1, 2015, there is a 2.25% factor. PERS offers several alternatives to the unmodified service retirement allowance which, in general, allow the retired employee to accept a reduced service retirement allowance payable monthly during his or her lifetime and various optional monthly payments to a named beneficiary after his or her death.

Post-retirement increases are provided by authority of NRS 286.575 - .579.

Vesting

Regular members entering PERS prior to January 1, 2010, are eligible for retirement at age 65 with five years of service, at age 60 with ten years of service, or at any age with 30 years of service. Regular members entering PERS on or after January 1, 2010, are eligible for retirement at age 65 with five years of service, or age 62 with ten years of service, or any age with 30 years of service. Regular members entering PERS on or after July 1, 2015, are eligible for retirement at age 65 with five years of service, or at age 62 with ten years of service or at age 55 with 30 years of service or at any age with 33 1/3 years of service.

Police/Fire members entering PERS prior to January 1, 2010, are eligible for retirement at age 65 with five years of service, at age 55 with ten years of service, at age 50 with 20 years of service, or at any age with 25 years of service. Police/Fire members entering PERS on or after January 1, 2010, are eligible for retirement at 65 with five years of service, or age 60 with ten years of service, or age 50 with 20 years of service, or at any age with 30 years of service. Police/Fire members entering the PERS on or after July 1, 2015, are eligible for retirement at age 65 with five years of service, at age 60 with ten years of services, at age 50 with 20 years of service, and at any age with 33 1/3 years of service. Only service performed in a position as a police officer or firefighter may be counted towards to eligibility for retirement as Police/Fire accredited service.

The normal ceiling limitation on monthly benefits allowances is 75% of average compensation. However, a member who has an effective date of membership before July 1, 1985, is entitled to a benefit of up to 90% of average compensation. Both Regular and Police/Fire members become fully vested as to benefits upon completion of five years of service.

Contributions

The authority for establishing and amending the obligation to make contributions and member contribution rates, is set by statute. New hires, in agencies which did not elect the Employer - Pay Contribution (EPC) plan prior to July 1, 1983, have the option of selecting one of two contribution plans. One plan provides for matching employee and employer contributions, while the other plan provides for employer-pay contributions only. Under the matching Employee/Employer Contribution plan a member may, upon termination of service for which contribution is required, withdraw employee contributions which have been credited to their account. All membership rights and active service credit in the System are canceled upon withdrawal of contributions from the member's account. If EPC was selected, the member cannot covert to the Employee/Employer Contribution plan.

PERS' basic funding policy provides for periodic contributions at a level pattern of cost as a percentage of salary throughout an employee's working lifetime in order to accumulate sufficient assets to pay benefits when due.

PERS receives an actuarial valuation on an annual basis indicating the contribution rates required to fund PERS on an actuarial reserve basis. Contributions actually made are in accordance with the required rates established by the Nevada Legislature. These statutory rates are increased/decreased pursuant to NRS 286.421 and 286.450.

The actuary funding method used is the Entry Age Actuarial Cost Method. It is intended to meet the funding objective and result in a relatively level long-term contributions requirement as a percentage of salary.

For the fiscal year ended June 30, 2020 the Statutory Employer/employee matching rate was 15.25% for Regular and 22.00% for Police/Fire. The Employer-Pay Contribution (EPC) rate for the fiscal year ending June 30, 2020, was 29.25% for Regular and 42.50% for Police/Fire.

The City's contributions were \$172,414 for the year ended June 30, 2020.

PERS Investment Policy

PERS' policies which determine the investment portfolio target asset allocation are established by the PERS Board. The asset allocation is reviewed annually and is designed to meet the future risk and return needs of the System.

The following was the PERS Board adopted policy target asset allocation as of June 30, 2019:

Asset Class	Target Allocation	Expected Real Rate of Return
Domestic equity	42%	5.50%
International equity	18%	5.50%
Domestic fixed income	28%	0.75%
Private markets	12%	6.65%

As of June 30, 2019, PERS' long-term inflation assumption was 2.75%.

Net Pension Liability

At June 30, 2020, the City reported a liability of \$2,237,855 for its proportionate share of the net pension liability. The net pension liability was measured as of June 30, 2019, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The City's proportion of the net pension liability was based on the City's share of contributions in PERS pension plan relative to the total contributions of all participating PERS employers and members. At June 30, 2019, the City's proportion was 0.01641 percent, which is a decrease of 0.00012 from its proportion measured as of June 30, 2018 of 0.01653 percent.

Pension Liability Discount Rate Sensitivity

The following presents the net pension liability of the City as of June 30, 2019, calculated using the discount rate of 7.50%, as well as what the City's net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower (6.50%) or 1-percentage-point higher (8.50%) than the current discount rate.

	1% Decrease in	1% Increase in		
	Discount Rate (6.50%)	Discount Rate (7.50%)	Discount Rate (8.50%)	
Net pension liability	\$ 3,465,048	\$ 2,237,855	\$ 1,217,747	

Pension Plan Fiduciary Net Position and Additional Information

Detailed information about the pension plan's fiduciary net position and additional information is available in the PERS Comprehensive Annual Financial Report, available on the PERS website (www.nvpers.org).

Actuarial Assumptions

The City's net pension liability was measured as of June 30, 2019, and the total pension liability used to calculate the net pension liability was determined by an actuarial valuation as of that date. The total pension liability was determined using the following actuarial assumptions, applied to all periods included in the measurement:

Inflation rate	2.75%
Investment rate of return	7.50%
Productivity pay increase	0.50%
Projected salary increases	Regular: 4.25% to 9.15%, depending on service
	Police/Fire: 4.55% to 13.90%, depending on service
	Rates include inflation and productivity increases
Consumer price index	2.75%
Other assumptions	Same as those used in the June 30, 2019 funding actuarial valuation

Mortality rates for healthy members were based on the Headcount-Weighted RP-2014 Healthy Annuitant Table projected to 2020 with Scale MP-2016, set forward one year for spouses and beneficiaries. For ages less than 50, mortality rates are based on the Headcount-Weighted RP-2014 Employee Mortality Tables. Those mortality rates are adjusted by the ratio of the mortality rate for healthy annuitants at age 50 to the mortality rate for employees at age 50. The mortality rates are then projected to 2020 with Scale MP-2016. Mortality rates for disabled were based on the Headcount-Weighted RP-2014 Disabled Retiree Table, set forward four years. Mortality rates for pre-retirement were based on Headcount-Weighted RP-2014 Employee Table, projected to 2020 with Scale MP-2016. The additional projection of six years is a provision made for future mortality improvement.

Actuarial assumptions used in the June 30, 2019 valuation were based on the results of the experience review completed in 2017.

The discount rate used to measure the total pension liability was 7.50% as of June 30, 2019. The projection of cash flows used to determine the discount rate assumed that employee and employer contributions will be made at the rate specified in statute. Based on that assumption, the pension plan's fiduciary net position at June 30, 2019, was projected to be available to make all projected future benefit payments of current active and inactive employees. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability as of June 30, 2019.

Pension Expense, Deferred Outflows of Resources and Deferred Inflows of Resources Related to Pensions

For the year ended June 30, 2020, the City recognized pension expense of \$144,946. At June 30, 2020, the City reported deferred outflows of resources and deferred inflows of resources related to pensions from the following sources:

	Deferred Outflows of Resources		 erred Inflows Resources	
Differences between expected and actual experience	\$	83,917	\$ 64,548	
Net difference between projected and actual earnings on pension plan investments		-	111,325	
Changes in assumptions		91,071	-	
Changes in the employer's proportion and differences between the employer's contributions and the employer's proportionate				
contributions		6,559	350,042	
City contributions subsequent to the measurement date		172,414	:=:	
	\$	353,961	\$ 525,915	

The \$172,414 reported as deferred outflows of resources related to pensions resulting from City contributions subsequent to the measurement date will be recognized as a reduction of the net pension liability in the year ending June 30, 2021.

The average of the expected remaining service lives of all employees that are provided with pensions through PERS (active and inactive employees) determined is 6.18 years.

Other estimated amounts reported as deferred outflows of resources and deferred inflows of resources related to pensions will be recognized in pension expense as follows:

Year Ended June 30,	
2021	\$ (80,839)
2022	(131,508)
2023	(70,738)
2024	(53,741)
2025	(8,011)
Thereafter	469

Additional Information

The PERS Comprehensive Annual Financial Report (CAFR) is available on the PERS website at www.nvpers.org under Quick Links – Publications.

Note 8 - Fund Equity

As defined in Note 1, fund equity may be reported in various classifications. Specific restrictions of fund balance/net position accounts are summarized below:

<u>Unrestricted/Unassigned</u> – Amounts that have not been assigned to other funds or restricted, committed, or assigned to a specific purpose.

Nonspendable for Perpetual Cemetery Care – In accordance with an ordinance enacted by the City on December 9, 1970, a minimum reserve of \$33,004 will be left in the Perpetual Cemetery Care Fund. The earnings can be withdrawn and deposited to the General Fund to be used for perpetual cemetery care.

Restricted for Debt Service – In accordance with the agreement from the USDA Rural Development for the loan for the Carlin Senior Center, the City is required to set-aside fund balance/net position of one-tenth of the annual payment amount for each loan until one full payment has been set-aside. The restricted debt service requirement for the year ended June 30, 2020 for the Carlin Senior Center in the Debt Service Fund is currently \$12,100.

<u>Restricted for Perpetual Cemetery Care</u> – In accordance with an ordinance enacted by the City on December 9, 1970, the earnings on the minimum reserve in the Perpetual Cemetery Care Fund are restricted for perpetual cemetery care.

<u>Restricted for the Senior Center</u>— In accordance with the donor-imposed use that the amount be used for the Senior Center.

Restricted for Judicial Fees – In accordance with Nevada Revised Statutes 176.059 and 176.0611, the administrative assessments collected under these statutes are restricted for the use outlined in each statute. The administrative assessment collected in accordance with Nevada Revised Statute 176.059 is restricted for the use of the municipal court. The administrative assessment collected in accordance with Nevada Revised Statute 176.0611 is restricted for the acquisition, construction and improvement of court facilities, acquisition of advanced technology for use in court facilities or for the payment of debt service on any bonds issued for the acquisition of land or facilities.

<u>Committed for Future Community Development</u> – In accordance with a revised ordinance enacted by the City on December 11, 2008, this represents the amount the City Council has specifically designated for future projects that will enhance the community.

<u>Committed for Recreational Activities</u> – In accordance with the Carlin City Code, this represents the amount the City Council has specifically designated for recreational purposes.

<u>Committed for Public Safety</u> – In accordance with the Carlin City Code, this represents the amount the City Council has specifically committed for public safety purposes.

<u>Assigned for Subsequent Year Operations</u> –This is the amount of the City's current year ending fund balance that the City intends to use to meet the next years' operating expenditures.

<u>Assigned for Other Purposes</u> –These are amount that the City intends to use in future periods for the purpose of the fund.

Unassigned –The residual classification for the General Fund that is available to spend.

The City Council has formally designated, per City Code, a portion of user charges to be set aside for major capital improvements, such as water wells and sewer improvements. These amounts do not meet the definition of restricted net position and are not included in the Statement of Net Position.

	Balance ly 1, 2019	Net	Change	Balance June 30, 2020		
Water system Water capital improvement	\$ 312,015 54,666	\$	- 2,110	\$	312,015 56,776	
Sewer capital improvement	231,396		1,000		232,396	

Note 9 - Interfund Items

Interfund transfers are shown as other financing sources or uses in all governmental funds. Transfers between funds during the year ended June 30, 2020 are as follows:

	Transfer In		Tr	ansfer Out	 Net
General Fund Capital Projects Fund Nonmajor Governmental Funds	\$	17,500 350,000	\$	(420,000) -	\$ (402,500) 350,000
Open Door Senior Citizens Center Fund Parks and Recreation Fund Municipal Court Building Fund Equestrian Center Fund		70,000 - - 20,000		(30,000) (7,500)	 70,000 (30,000) (7,500) 20,000
	\$	457,500	\$	(457,500)	\$

The General Fund subsidized the Open Door Senior Citizens Center Fund whose funding sources were not large enough to support the entire cost of their programs in accordance with budgetary authority. The General Fund transferred monies to the Capital Projects Fund to fund future capital projects. The Parks and Recreation Fund transferred monies to the Equestrian Center Fund and the General Fund to reimburse for certain park improvement costs. The Municipal Court Building Fund transferred monies to the General Fund to reimburse for certain municipal court building improvement costs.

Note 10 - Enterprise Fund Revenue-Supported Debt Information

The City of Carlin maintains an Enterprise Fund that provides water, sewer, streetlight and garbage services. Selected additional revenue-supported debt information is provided for those enterprise activities with outstanding debt obligations. Information for the year ended June 30, 2020 is provided for the water service as follows:

Condensed Statement of Net Position	
Assets	ć 4 F40 047
Current assets Capital assets, net of accumulated depreciation	\$ 1,512,247
Total assets	750,383 2,262,630
Deferred Inflows of Resources Deferred inflows of resources related to pensions	55,729
Deferred inflows of resources related to other postemployment benefits	3,006
Total deferred inflows of resources	58,735
Liabilities	
Current liabilities	44,084
Noncurrent liabilities	316,755
Total liabilities	360,839
Deferred Outflows of Resources	
Deferred outflows of resources related to pensions	96,925
Net Position	
Net investment in capital assets	750,383
Unrestricted	1,113,218
Total net position	\$ 1,863,601
Condensed Statement of Activities	
Operating Revenues	
Charges for services	\$ 448,624
Operating Expenses	*
Depreciation	48,163
Other operating expenses	442,554 490,717
Total operating expenses	
Operating Income	(42,093)
Nonoperating Revenue (Expense)	
Miscellaneous income	7,763
Change in Net Position	(34,330)
Net Position, Beginning of Year	1,897,931
Net Position, End of Year	\$ 1,863,601
Condensed Statement of Cash Flows	
Net cash from (used for)	
Operating activities	\$ (63,675)
Capital and related financing activities	(15,620) 7,763
Investing activities	
Net Increase in Cash Cook Reginning of Voor on restated*	(71,532)
Cash, Beginning of Year, as restated*	1,546,616
Cash, End of Year	\$ 1,475,084

^{*}The beginning cash balance for water services for footnote purposes only was restated due to the allocation between current assets and capital assets, net of accumulated depreciation being incorrectly reported.

Note 11 - Postemployment Healthcare Plan

The City provides other postemployment benefits (OPEB) for eligible retired employees through either participation in the City's health insurance program or the Nevada Public Employees' Benefits Plan (PEBP) under NRS 287.023.

<u>Plan Descriptions</u> – The City's defined benefit OPEB plan, City of Carlin Employee Health Benefits Plan (CCEHBP), provides OPEB for all eligible employees on retirement from the City. Additionally, the City contributes to the defined OPEB plan, Public Employees' Benefits Plan (PEBP).

CCEHBP is a single employer defined benefit OPEB plan administered by the City. In accordance with Nevada Revised Statute 287.010, the CCEHBP was adopted to provide postemployment benefits to full-time employees on retirement. Eligibility requirements, benefit levels, employee contributions, and employer contributions are governed by the City and can only be amended by the City. The City changed their health insurance plan during the year to medical premiums paid based on age and, as such, are not expected to result in an implicit subsidy liability for the City if retirees elect to continue the coverage. The result of this change in the health insurance plan is that there is no liability for CCEHBP as of June 30, 2020.

PEBP is a single employer defined benefit OPEB plan administered by a nine-member governing board. Nevada Revised Statute 287.023 allows certain retired employees of governmental entities within the State of Nevada to join the State's Public Employee Benefits Program. Nevada Revised Statute 287.023 sunsetted the option to join PEBP for City employees who retired from the City after September 1, 2008. Eligibility and subsidy requirements are governed by statutes of the State of Nevada and can only be amended through legislation. No assets are accumulated in a trust that meets the criteria in paragraph 4 of Statement 75; no separate financial reports are issued.

<u>Benefits Provided</u> - CCEHBP provides medical, vision, dental and life insurance for eligible retirees and their dependents. Employees retiring from the City under PERS are allowed to continue participation in the City's group health insurance program (medical, dental, vision and life insurance). Retirees are responsible for the payment of their premiums, as well as, premium for eligible dependents.

PEBP provides medical, prescription, vision, life and accident insurance, and dental for retirees. Retirees can choose between a self-funded preferred provider organization (PPO) and a health maintenance organization (HMO) plan. Retirees are responsible for payment of unsubsidized premiums. The City is required to provide a subsidy for their retirees who have elected to join PEBP. Contribution requirements for plan members and the participating employers are assessed by the PEBP Board annually. The contributions required for PEBP subsidies depend on the date of retirement and years of PERS service former employees earned in total and while working for the City. The subsidy ranges from a minimum of \$3 to a maximum of \$1,095 per month. Subsidies for retiree premiums participating in the PEBP are paid directly to the State when due. The City's obligation for subsidies is limited to payment of the statutorily required contribution. The statutes were revised with an effective date of November 30, 2008, to create new participation limitations so that only active members of PEBP can elect coverage after retirement. Based on the statute revision, former City employees and retirees must have retired and joined PEBP by September 1, 2008 to elect PEBP membership. Consequently, no employees retiring from the City on or after September 1, 2008 will be eligible to participate in the PEBP plan as a retiree at the City's expense.

<u>Employee Covered by Benefit Terms</u> – At June 30, 2019 the following employees were covered by the benefit terms:

	ССЕНВР	PEBP	Total
Inactive employees or beneficiaries currently receiving benefits		11_	11
		11	11

<u>Total OPEB Liability</u> - The City's total OPEB liability of \$359,170 was measured as of June 30, 2019 and was determine by an actuarial valuation as of that date.

	ССЕНВР			PEBP	 Total		
Total OPEB Liability	\$		\$	359,171	\$ 359,171		

<u>Assumptions and Other Inputs</u> - The total OPEB liability in the June 30, 2019 actuarial valuation was determined using the following actuarial assumptions and other inputs for PEBP, applied to all periods included in the measurement, unless otherwise specified:

	ССЕНВР	PEBP
Actuary funding method	N/A	Entry age normal, closed group, level percent of pay
General inflation	N/A	2.75%
Salary increases	N/A	N/A
Assumed wage inflation	N/A	N/A
Discount rate	N/A	2.79%
Health care trend rates	N/A	6.00% for 2020, decreasing 0.25% per year to an ultimate rate of 5.00% for 2024 and later years
Retirees' share of benefit - related costs	N/A	0% to 100% of premium amounts based on years of service

The discount rate for PEBP was based on the S & P General Obligation Municipal Bond 20 Year High Grade Index.

For the PEBP Plan, mortality rates for regular members were based on the Headcount-Weighted RP-2014 Healthy Annuitant Table set forward one year. Morality rates for disabled regular members were based on the Headcount-Weighted RP-2014 Disabled Retiree Table set forward four years. Adjustments for mortality improvements were based on applying the MacLeod Watts Scale 2018 on a generational basis from 2018 forward, based on data from the Society of Actuaries Mortality Improvement Scale MP-2017 Report and the demographic assumptions used in the 2017 Annual Report of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds.

Changes in the Total OPEB Liability -

	CCI	ЕНВР		PEBP	Total		
Balance at June 30, 2019	\$		\$	358,083	\$ 358,083		
Changes for the year Interest Changes in benefit terms Differences between expected and		-		10,413	10,413		
actual experience Changes in assumptions or other inputs Benefit payments			-	7,989 (17,314)	 7,989 (17,314)		
Net Changes				1,088	 1,088		
Balance at June 30, 2020	\$		\$	359,171	\$ 359,171		

<u>Changes in Assumptions</u> - CCEHBP and PEBP changes in assumptions and other inputs reflect a change in discount rate from 2.98% to 2.79%.

<u>Sensitivity of the Total OPEB Liability to Changes in the Discount Rate</u> - The following presents the total OPEB liability of the City, as well as what the City's Total OPEB liability would be if it were calculated using a discount rate that is 1-percentage lower (1.79%) or 1-percentage-point higher (3.79%) than the current discount rate:

	1% Decrease in Discount Rate			Discount Rate	1% Increase in Discount Rate		
CCEHBP OPEB Liability PEBP OPEB Liability	\$	407,044	\$	- 359,171	\$ 320,531		
	\$	407,044	\$	359,171	\$ 320,531		

Sensitivity of the Total OPEB Liability to Changes in the Healthcare Cost Trend Rates - The following presents the total OPEB liability of the City, as well as what the City's total OPEB liability would be if it were calculated using healthcare cost trend rates that are 1-percentage lower (5.5%) or 1-percentage-point higher (7.5%) than the current healthcare cost trend rates:

	1% Decrease in Healthcare Cost Trend Rate			ealthcare ost Trend Rate	Heal	1% Increase in Healthcare Cost Trend Rate		
CCEHBP OPEB Liability PEBP OPEB Liability	\$	321,821	\$	359,171	\$	404,470		
Total OPEB Liability	\$	321,821	\$	359,171	\$	404,470		

<u>OPEB Expense and Deferred Outflows of Resources and Deferred Inflows of Resources Related to OPEB</u> - For the year ended June 30, 2020, the City recognized OPEB expense (negative OPEB expense) of (\$81,804):

CCEHBP PEBP	\$	18,402
	\$	18,402

At June 30, 2020, the City reported deferred outflows of resources and deferred inflows of resources related to OPEB from the following sources:

		PE			To	tal			
	D	eferred	Defe	rred	D	eferred	Deferred		
	Ou	tflows of	Inflo	ws of	Ou	tflows of	Inflows of		
	Re	sources	Reso	urces	Resources Resources				
Contributions Subsequent to the Measurement Date	\$	18,947 \$		-	\$	18,947	\$		

The \$18,947 reported as deferred outflows of resources related to OPEB resulting from City contributions subsequent to the measurement date will be recognized as a reduction of the total OPEB liability in the year ending June 30, 2021.

Note 12 - Commitments and Contingent Liabilities

Legal counsel for the City is aware of one pending lawsuit. The ultimate effect to the City has not been determined.

On September 28, 2018, the City entered into a development agreement with a third party to construct and operate a grocery store in the City. The agreement requires the City to make annual payments of \$10,000 for the next five years to the owner of the grocery store as long as the grocery store continues to operate during this time.

Note 13 - Subsequent Events

On August 12, 2020, the City Council approved the purchase of vehicle for the police department in the amount of \$40,152.

On October 28, 2020, the City Council approved insulating the Water Storage Building in the amount of \$27,475.

General Operations

The City has been negatively impacted by the effects of the world-wide coronavirus pandemic. The City is closely monitoring its operations, liquidity, and capital resources and is actively working to minimize the current and future impact of this unprecedented situation. As of the date of issuance of these financial statements, the full impact to the City's financial position is not known.

City of Carlin
Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – General Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

		Amounts		Final Budget	
Davissin	Original	Final	Actual	Variance	2019
Revenues Taxes					
Ad valorem taxes	\$ 435,246	\$ 435,246	\$ 432,790	\$ (2,456)	\$ 402,348
Licenses, permits and fees					
Franchise fees	13,500	13,500	6,954	(6,546)	13,311
Business licenses	18,500	18,500	18,656	156	19,574
Liquor licenses	5,000	5,000	5,295	295	4,860
Local gaming licenses	8,000	8,000	7,690	(310)	8,899
Animal licenses	2,000	2,000	1,989	(11)	2,198
Building permits	15,000	15,000	16,871	1,871	15,576
Work permits	1,000	1,000	-	(1,000)	
Other permits and fees	1,000	1,000	2,460	1,460	2,165
	64,000	64,000	59,915	(4,085)	66,583
Intergovernmental					*
Consolidated tax revenues	1,950,000	1,950,000	2,097,082	147,082	1,985,202
Motor vehicle fuel tax	55,000	55,000	50,825	(4,175)	52,738
Share of county gaming license	8,000	8,000	8,033	33	8,145
Infrastructure tax	-	-	44,225	44,225	46,403
Regional street and highway tax	-	_			258,685
	2,013,000	2,013,000	2,200,165	187,165	2,351,173
Charres for somiles					
Charges for services Ambulance charges	15,000	15,000	35,318	20,318	12 207
Ambulance charges Ambulance supplies	5,000	5,000	33,310	(5,000)	12,287
Facility Use Fees	3,000	5,000	_	(3,000)	798
racinty ose rees					730
	20,000	20,000	35,318	15,318	13,085
Fines and forfeits					
Court fines and fees	16,500	16,500	22,191	5,691	12,564
Animal fines and fees	4,500	4,500	2,373	(2,127)	1,178
Other			1,226	1,226	-
	21,000	21,000	25,790	4,790	13,742
					•
Miscellaneous					
Interest income	4,500	4,500	2,256	(2,244)	8,338
Other income	-	-	20,891	20,891	58,108
Sales and rentals	-		386	386	464
Leases and contracts	18,000	18,000	21,928	3,928	13,601
Local grants	12,000	12,000		(12,000)	
	34,500	34,500	45,461	10,961	80,511
Total revenues	2,587,746	2,587,746	2,799,439	211,693	2,927,442

City of Carlin
Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – General Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

•	Budgeted	l Amounts		Final Budget			
	Original	Final	Actual	Variance	2019		
Expenditures							
Current							
General government							
Finance administration							
Salaries and wages	\$ 150,500	\$ 150,500	\$ 147,944	\$ 2,556	\$ 142,365		
Employee benefits	86,000	86,000	85,388	612	81,905		
Services and supplies	21,050	21,050	27,578	(6,528)	16,539		
Capital outlay	25,000	25,000		25,000	1,990		
	282,550	282,550	260,910	21,640	242,799		
Legislative							
Salaries and wages	14,500	14,500	13,020	1,480	13,020		
Employee benefits	7,000	7,000	4,481	2,519	4,336		
Services and supplies	3,600	3,600	1,582	2,018	2,689		
	25,100	25,100	19,083	6,017	20,045		
Other							
Services and supplies	558,000	558,000	387,732	170,268	388,070		
Capital outlay			25,792	(25,792)	3,696		
	558,000	558,000	413,524	144,476	391,766		
City manager							
Salaries and wages	80,000	80,000	60,795	19,205	20,307		
Employee benefits	35,000	35,000	12,848	22,152	9,314		
Services and supplies	5,000	5,000	3,222	1,778	3,359		
Capital outlay	35,000	35,000		35,000	23,685		
	155,000	155,000	76,865	78,135	56,665		
Total general government	1,020,650	1,020,650	770,382	250,268	711,275		
rotal general government			7,70,502		711,275		
Public safety							
Police	405 000	405.000	250.021	45.079	275 470		
Salaries and wages Employee benefits	405,000	405,000	359,921 107,769	97,232	375,478		
Services and supplies	295,000 130,658	295,000 130,658	197,768 119,434	11,224	204,606 113,275		
Capital outlay	38,000	38,000	4,045	33,955	2,450		
Capital Outlay	38,000	38,000	4,043		2,430		
	868,658	868,658	681,168	187,490	695,809		
Animal control							
Salaries	35,000	35,000	35,486	(486)	31,298		
Employee benefits	23,000	23,000	22,255	745	20,092		
Services and supplies	1,500	1,500	720	780	332		
	59,500	59,500	58,461	1,039	51,722		

City of Carlin
Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – General Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

		d Amounts	Final Budget		
	Original	Final	Actual	Variance	2019
Fire and ambulance					
Salaries	\$ 60,000	\$ 60,000	\$ 62,604	\$ (2,604)	\$ 52,651
Employee benefits	40,000	40,000	29,984	10,016	30,628
Services and supplies	119,750	119,750	91,358	28,392	72,143
Capital outlay	79,000	79,000	1,773	77,227	12,945
	298,750	298,750	185,719	113,031	168,367
Total public safety	1,226,908	1,226,908	925,348	301,560	915,898
Judicial					
Municipal court					
Salaries and wages	35,000	35,000	33,992	1,008	31,000
Employee benefits	14,500	14,500	13,990	510	14,484
Services and supplies	5,300	5,300	2,392	2,908	8,280
Capital outlay	7,500	7,500	2,816	4,684	-
capital outlay	.,,,,,	7,500		1,001	
Total judicial	62,300	62,300	53,190	9,110	53,764
Public works					
Highways and streets					
Salaries and wages	45,500	45,500	41,622	3,878	40,624
Employee benefits	25,800	25,800	27,785	(1,985)	22,587
Services and supplies	186,000	186,000	94,045	91,955	104,517
Capital outlay	350,000	350,000	13,041	336,959	30,948
Capital Outlay	330,000	330,000	13,041		30,548
Total public works	607,300	607,300	176,493	430,807	198,676
Health and sanitation					
Public health administration					
Services and supplies	21,000	21,000	11,878	9,122	4,704
Services and supplies	21,000	21,000	11,070	5,122	4,704
Cemetery					
Salaries and wages	38,500	38,500	34,503	3,997	34,338
Employee benefits	23,200	23,200	19,087	4,113	22,689
Services and supplies	8,000	8,000	5,239	2,761	11,317
	69,700	69,700	58,829	10,871	68,344
				40.055	
Total health and sanitation	90,700	90,700	70,707	19,993	73,048

City of Carlin
Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – General Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

	Budgeted Amounts						Final Budget				
		Original		Final		Actual		Variance		2019	
Culture and recreation Parks											
Salaries and wages Employee benefits Services and supplies Capital outlay	\$	20,000 13,000 33,000 30,000	\$	20,000 13,000 33,000 30,000	\$	15,098 6,363	\$	20,000 13,000 17,902 23,637	\$	16,822 29,271	
	_	96,000		96,000	_	21,461		74,539		46,093	
Library Services and supplies		2,700		2,700	_	2,914		(214)	_	2,748	
Total culture and recreation		98,700		98,700	_	24,375		74,325		48,841	
Total expenditures		3,106,558		3,106,558	_	2,020,495		1,086,063		2,001,502	
Excess (Deficiency) of Revenues over (under) Expenditures		(518,812)		(518,812)	_	778,944	_	1,297,756	_	925,940	
Other Financing Sources (Uses) Sale of capital assets Transfers in Transfers out Contingency		17,500 (420,000) (70,000)		17,500 (420,000) (70,000)		17,500 (420,000)		- - - 70,000		10,000 15,000 (316,800)	
Total other financing sources (uses)		(472,500)		(472,500)	_	(402,500)		70,000		(291,800)	
Net Change in Fund Balance		(991,312)		(991,312)		376,444		1,367,756		634,140	
Fund Balance, Beginning of Year		4,188,160		4,188,160	_	5,430,352		1,242,192		4,796,212	
Fund Balance, End of Year	\$	3,196,848	\$	3,196,848	\$	5,806,796	\$	2,609,948	\$	5,430,352	

City of Carlin
Schedule of Changes in the City's Total OPEB Liability and Related Ratios – City of Carlin Employee Health Benefit
Plan (CCEHBP)
Last Ten Fiscal Years

Total OPEB Liability	 2020	 2019	2018		
Service cost Interest Changes in benefit terms Changes of assumptions or other inputs Benefit payments	\$ - - - - -	\$ - (114,727) - -	\$	18,849 3,106 - (3,629) (1,282)	
Net Change in Total OPEB Liability	-	(114,727)		17,044	
Total OPEB Liability, Beginning of Year	 			97,683	
Total OPEB Liability, End of Year	\$ _	\$ (114,727)	\$	114,727	
Covered Payroll	\$ -	\$ -	\$	897,280	
Total OPEB Liability as a Percentage of Covered Payroll	N/A	N/A		12.79%	

Notes to Schedule:

Changes of Assumptions: In 2019, the City changed their heath insurance plan during the year to medical premiums paid based on age and, as such, are not expected to result in an implicit subsidy liability for the City if retirees elect to continue the coverage. The result of this change in the health insurance plan is that there is no liability for CCEHBP as of June 30, 2019.

The City adopted GASB Statement No.75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, for the year ended June 30, 2018. GASB Statement No. 75 requires ten years of information to be presented in this table. However, until ten years of data is available, the City will present information only for those years for which information is available.

No assets are accumulated in a trust that meets the criteria in paragraph 4 of GASB Statement No. 75.

City of Carlin
Schedule of Changes in the City's Total OPEB Liability and Related Ratios – State of Nevada Public Employees'
Benefit Plan (PEBP)
Last Ten Fiscal Years

Total OPEB Liability		2020	-	2019	 2018
Interest Difference between expected and actual experience Changes of assumptions or other inputs Benefit payments	\$	10,413 - 7,989 (17,314)	\$	9,443 13,631 (16,169)	\$ 9,634 - (20,789) (15,085)
Net Change in Total OPEB Liability		1,088		17,318	(26,240)
Total OPEB Liability, Beginning of Year	-	358,083		340,765	 367,005
Total OPEB Liability, End of Year	\$	359,171	\$	358,083	\$ 340,765
Covered Payroll		N/A		N/A	N/A
Total OPEB Liability as a Percentage of Covered Payroll		N/A		N/A	N/A

Notes to Schedule:

Changes of Assumptions: In 2020, the discount rate changed fro 2.98% to 2.79%.

In 2019, the changes of assumptions and other inputs reflected updated mortality assumptions and change in the discount rate from 3.13% to 2.98%.

The City adopted GASB Statement No.75, Accounting and Financial Reporting for Postemployment Benefits Other Than Pensions, for the year ended June 30, 2018. GASB Statement No. 75 requires ten years of information to be presented in this table. However, until ten years of data is available, the City will present information only for those years for which information is available.

No assets are accumulated in a trust that meets the criteria in paragraph 4 of GASB Statement No. 75.

City of Carlin
Schedule of City's Share of Net Pension Liability
Public Employees' Retirement System of Nevada (PERS)
Last Ten Fiscal Years*

	2019	2018	2017	2016	2015	2014
City's portion of the net pension liability City's proportionate share of the net pension liability City's covered payroll	0.01641% \$ 2,237,855 \$ 1,033,736	0.01653% \$ 2,254,999 \$ 1,063,064	0.01944% \$ 2,586,083 \$ 1,125,719	0.01992% \$ 2,680,474 \$ 1,013,674	0.02078% \$ 2,381,517 \$ 1,141,555	0.02057% \$ 2,143,875 \$ 1,061,682
City's proportionate share of the net pension liabilit as a percentage of its covered payroll	216.48%	212.12%	229.73%	264.43%	208.62%	201.93%
Plan fiduciary net position as a percentage of the total pension liability	76.46%	75.24%	74.42%	72.23%	75.13%	76.30%

^{*} GASB Statement No. 68 requires ten years of information to be presented in this table. However, until a full ten-year trend is compiled, the City will present information for those years for which information is available.

City of Carlin
Schedule of City's Contributions
Public Employees' Retirement System of Nevada (PERS)
Last Ten Fiscal Years*

	2020	2019	2018	2017	2016	2015
Statutorily required contribution Contributions in relation to the statutorily	\$ 172,414	\$ 157,254	\$ 161,000	\$ 174,622	\$ 168,881	\$ 160,391
required contribution** Contribution (deficiency) excess City's covered payroll	\$ 172,414 \$ - \$ 1,100,523	\$ 157,254 \$ - \$ 1,033,736	\$ 161,000 \$ - \$ 1,063,064	\$ 174,622 \$ - \$ 1,125,719	\$ 168,881 \$ - \$ 1,013,684	\$ 160,391 \$ - \$ 1,141,555
Contributions as a percentage of covered payroll	15.67%	15.21%	15.14%	15.51%	16.66%	14.05%

^{*} GASB Statement No. 68 requires ten years of information to be presented in this table. However, until a full ten-year trend is compiled, the City will present information for those years for which information is available.

^{**} All contributions shown reflect employer-paid contributions only. Member contributions are excluded.



Supplementary Information June 30, 2020 City of Carlin



City of Carlin
Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – Capital Projects Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

		Amounts		Final Budget		
B	Original	Final	Actual	Variance	2019	
Revenues Taxes Ad valorem taxes	\$ 30,000	\$ 30,000	\$ 39,759	\$ 9,759	\$ 24,958	
Miscellaneous Donations	5,000	5,000	3,270	(1,730)	10,692	
Total revenues	35,000	35,000	43,029	8,029	35,650	
Expenditures Current General government Finance administration Capital outlay	50,000	50,000	15,575	34,425	_	
Fire and Ambulance Capital outlay	250,000	250,000	-	250,000	-	
Public works Highway and streets Capital outlay					247,770_	
Total expenditures	300,000	300,000	15,575	284,425	247,770	
Excess (Deficiency) of Revenues over (under) Expenditures	(265,000)	(265,000)	27,454	292,454	(212,120)	
Other Financing (Uses) Transfers in	350,000	350,000	350,000		250,000	
Net Change in Fund Balance	85,000	85,000	377,454	292,454	37,880	
Fund Balance, Beginning of Year	22,154	22,154	632,034	609,880	594,154	
Fund Balance, End of Year	\$ 107,154	\$ 107,154	\$ 1,009,488	\$ 902,334	\$ 632,034	

City of Carlin Combining Balance Sheet – Nonmajor Governmental Funds June 30, 2020

							Special Rev	enue	Funds										manent Fund		
Assets		Grants Fund		pen Door ior Citizens Center Fund	arks and ecreation Fund		unicipal Court Suilding Fund		ninistrative sessment Fund	Re	arks and ecreation und #2		questrian Center Fund	F	Police orfeiture	5	Debt Service Fund	Ce	rpetual metery re Fund		Total
Cash Accounts receivable, net Due from other governments Prepaid expenses Restricted cash	\$	57,259 10,388 - - -	\$	161,002 - 22,281 2,516 -	\$ 253,431 2,083 - - -	\$	4,380 130 - - -	\$	11,162 906 - - -	\$	87,821 - - - -	\$	81,254 - - - -	\$	100,781 - - - -	\$	41,126 - - - 12,100	\$	58,483 - - - 33,004	\$	856,699 13,507 22,281 2,516 45,104
Total assets	\$	67,647	\$	185,799	\$ 255,514	\$	4,510	\$	12,068	\$	87,821	\$	81,254	\$	100,781	\$	53,226	\$	91,487	\$	940,107
Liabilities Accounts payable Due to other goverments Unearned revenue - grants	\$	- - 13,361	\$	4,872 - -	\$ - 398 -	\$		\$	- 822 -	\$	-	\$	-	\$		\$	12,100 - -	\$:	\$	16,972 1,220 13,361
Total liabilities		13,361		4,872	398			_	822				-	_	-		12,100		-	_	31,553
Deferred Inflows of Resources Unavailable grant revenue	_	3,000	_		 													,			3,000
Fund Balance Nonspendable Restricted for				2,516	-		*				-		×		*				33,004		35,520
Debt service Perpetual cemetery care Senior center Court facilities fees		- 11,809		3,767	-		-		-		-		-		:		12,100 - -		58,483 -		12,100 58,483 15,576
(NRS 176.0611) Judicial fees (NRS 176.059) Committed for Future community		-		-	-		4,510		- 11,246		-		-		:		-		-		4,510 11,246
development Recreational activities Public safety Assigned		:		-	60,052 195,064		:		-		87,821 -		-		100,781		-		-		60,052 282,885 100,781
Subsequent year operation Other purposes		- 39,477		34,200 140,444	 -	_	<u>:</u>		-		-	1	81,254		-		29,026		, , , , , , , , , , , , , , , , , , ,		34,200 290,201
Total fund balance		51,286		180,927	255,116	_	4,510		11,246		87,821	_	81,254		100,781		41,126		91,487		905,554
Total Liabilities and Fund Balance	\$	67,647	\$	185,799	\$ 255,514	\$	4,510	\$	12,068	\$	87,821	\$	81,254	\$	100,781	\$	53,226	\$	91,487	\$	940,107

City of Carlin Combining Statement of Revenues, Expenditures, and Changes in Fund Balances – Nonmajor Governmental Funds Year Ended June 30, 2020

			9:		enue Funds				_	Permanent Fund	
2	Grants Fund	Open Door Senior Citizens Center Fund	Parks and Recreation Fund	Municipal Court Building Fund	Administrative Assessment Fund	Parks and Recreation Fund #2	Equestrian Center Fund	Police Forfeiture	Debt Service Fund	Perpetual Cemetery Care Fund	Total
Revenues Taxes	\$ -	\$ -	\$ 27,915	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27,915
Intergovernmental	64,205	156,189		-	· .	-	-			-	220,394
Charges for services	-	19,138	-	-	-	-	-	-	-	-	19,138
Miscellaneous		7,326		3,165	18,459	12,766	21,192	-		1,049	63,957
Total revenues	64,205	182,653	27,915	3,165	18,459	12,766	21,192			1,049	331,404
Expenditures Current											
Public safety	6,078	-	-	-	-	-	-	-	-	-	6,078
Judicial	-	•	-	-	16,367		-	-	-	-	16,367
Culture and recreation	-	237,175	2,331	-	-	14,468	21,994	-	-		275,968
Capital outlay	61,809	462	-	-	-	-	-	7,452	-	-	69,723
Debt service									C 250		C 250
Principal Interest	-	-	-	-	-		-	-	6,350 5,750	-	6,350 5,750
interest									3,730		3,730
Total expenditures	67,887	237,637	2,331		16,367	14,468	21,994	7,452	12,100		380,236
Excess (Deficiency) of Revenues Over Expenditures	(3,682)	(54,984)	25,584	3,165	2,092	(1,702)	(802)	(7,452)	(12,100)	1,049	(48,832)
Other Financing Sources (Uses) Transfers in Transfers out	:	70,000	(30,000)	- (7,500)		-	20,000				90,000 (37,500)
Transfers out			(30,000)	(7,500)							(37,300)
Total other financing sources (uses)		70,000	(30,000)	(7,500)			20,000				52,500
Net Change in Fund Balance	(3,682)	15,016	(4,416)	(4,335)	2,092	(1,702)	19,198	(7,452)	(12,100)	1,049	3,668
Fund Balances, Beginning of Year	54,968	165,911	259,532	8,845	9,154	89,523	62,056	108,233	53,226	90,438	901,886
Fund Balances, End of Year	\$ 51,286	\$ 180,927	\$ 255,116	\$ 4,510	\$ 11,246	\$ 87,821	\$ 81,254	\$ 100,781	\$ 41,126	\$ 91,487	\$ 905,554

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –
Grants Fund
Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

_	Budget	Actual	Variance	2019		
Revenues Intergovernmental Grants	\$ 130,000	\$ 64,205	\$ (65,795)	\$ 15,491		
Expenditures Current Public Safety						
Services and supplies Capital outlay	130,000	6,078 61,809	(6,078) 68,191	1,984 		
Total expenditures	130,000	67,887	62,113	1,984		
Excess (Deficiency) of Revenues over (under) Expenditures		(3,682)	(3,682)	13,507		
Other Financing Sources (Uses) Transfers in				10,000		
Net Change in Fund Balance	-	(3,682)	(3,682)	23,507		
Fund Balance (Deficit), Beginning of Year	31,461	54,968	23,507	31,461		
Fund Balance, End of Year	\$ 31,461	\$ 51,286	\$ 19,825	\$ 54,968		

City of Carlin Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – Open Door Senior Citizens Center Year Ended June 30, 2020

(With Comparative Actual	Amounts for the	Year Ended June	30, 2019)
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Davis	Budget	Actual	Variance	2019
Revenues Intergovernmental Federal grants Cash match USDA	\$ 55,000 159,000 8,000	\$ 53,290 101,011 1,888	\$ (1,710) (57,989) (6,112)	\$ 56,982 122,785 12,565
	222,000	156,189	(65,811)	192,332
Charges for services	25,250	19,138	(6,112)	21,320
Miscellaneous Contributions In-kind revenue	3,000	6,317 1,009 7,326	6,317 (1,991) 4,326	23,697 1,082 24,779
Total revenues	250,250	182,653	(67,597)	238,431
Expenditures Current Culture and recreation	110,000	00.240	10.552	100 100
Salaries and wages Employee benefits Services and supplies Capital outlay	118,000 94,000 107,300	99,348 67,887 69,940 462	18,652 26,113 37,360 (462)	108,106 63,545 66,177
Total expenditures	319,300	237,637	81,663	237,828
Excess (Deficiency) of Revenues over (under) Expenditures	(69,050)	(54,984)	14,066	603
Other Financing Sources (Uses) Transfers in	70,000	70,000		56,800
Net Change in Fund Balance	950	15,016	14,066	57,403
Fund Balance, Beginning of Year	108,508	165,911	57,403	108,508
Fund Balance, End of Year	\$ 109,458	\$ 180,927	\$ 71,469	\$ 165,911

City of Carlin Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual – Parks and Recreation Fund Year Ended June 30, 2020 (With Comparative Actual Amounts for the Year Ended June 30, 2019)

Revenues	 Budget	 Actual	\	/ariance	2019		
Taxes Room tax revenues	\$ 53,000	\$ 27,915	\$	(25,085)	\$	40,490	
Expenditures Current							
Culture and recreation Services and supplies	 5,000	 2,331		2,669		3,888	
Excess (Deficiency) of Revenues over (under) Expenditures	 48,000	25,584		(22,416)		36,602	
Other Financing Sources (Uses) Transfers out	(30,000)	(30,000)				(49,000)	
Net Change in Fund Balance	18,000	(4,416)		(22,416)		(12,398)	
Fund Balance, Beginning of Year	252,480	 259,532		7,052		271,930	
Fund Balance, End of Year	\$ 270,480	\$ 255,116	\$	(15,364)	\$	259,532	

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –

Municipal Court Building Fund

Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

Revenues	Budget		 Actual	Va	ariance	2019		
Miscellaneous Building assessments	\$	2,500	\$ 3,165	\$	665	\$	1,465	
Other Financing Sources (Uses) Transfers out		(7,500)	 (7,500)		_		(5,000)	
Net Change in Fund Balance		(5,000)	(4,335)		665		(3,535)	
Fund Balance, Beginning of Year		9,880	 8,845		(1,035)		12,380	
Fund Balance, End of Year	\$	4,880	\$ 4,510	\$	(370)	\$	8,845	

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –

Administrative Assessment Fund

Year Ended June 30, 2020

(With Comparative Actua	l Amounts for the \	/ear Ended Jur	ne 30, 2019)
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Revenues	Budget		 Actual	Va	riance	2019	
Miscellaneous Administrative assessments	\$	13,500	\$ 18,459	\$	4,959	\$	8,746
Expenditures Current							
Judicial Services and supplies		16,500	16,367		133		7,476
Net Change in Fund Balance		(3,000)	2,092		5,092		1,270
Fund Balance, Beginning of Year		9,154	9,154				7,884
Fund Balance, End of Year	\$	6,154	\$ 11,246	\$	5,092	\$	9,154

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –

Parks and Recreation Fund #2

Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

Revenues	 Budget	Actual	Variance		2019	
Miscellaneous Other income	\$ 15,000	\$ 12,766	\$	(2,234)	\$	14,988
Expenditures Current Culture and recreation Parks						
Services and supplies Capital outlay	15,000 30,000	14,468		532 30,000		11,564 25,108
Total expenditures	45,000	14,468		30,532		36,672
Excess (Deficiency) of Revenues over (under) Expenditures	 (30,000)	 (1,702)		28,298		(21,684)
Other Financing Sources Transfers in	 					24,000
Net Change in Fund Balance	(30,000)	(1,702)		28,298		2,316
Fund Balance, Beginning of Year	 101,707	89,523		(12,184)		87,207
Fund Balance, End of Year	\$ 71,707	\$ 87,821	\$	16,114	\$	89,523

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –

Equestrian Center Fund

Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

	Budget	Actual	Variance	2019
Revenues Miscellaneous Other income	\$ 40,000	\$ 21,192	\$ (18,808)	\$ 31,464
Expenditures Current Culture and recreation Parks				
Services and supplies Capital outlay	30,000 25,000	21,994	8,006 25,000	34,882
Total expenditures	55,000	21,994	33,006	34,882
Excess (Deficiency) of Revenues over (under) Expenditures	(15,000)	(802)	14,198_	(3,418)
Other Financing Sources Transfers in	20,000	20,000		15,000
Net Change in Fund Balance	5,000	19,198	14,198	11,582
Fund Balance, Beginning of Year	46,474	62,056	15,582	50,474
Fund Balance, End of Year	\$ 51,474	\$ 81,254	\$ 29,780	\$ 62,056

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –
Police Forfeiture Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

Revenues		Budget		Actual	 ariance	 2019
Fines and forfeits Forfeitures	\$	10,000	\$		\$ (10,000)	\$ -
Expenditures Current Public safety Police						
Services and supplies		12,000		-	12,000	-
Capital outlay	-	10,000		7,452	2,548	 -
Total expenditures		22,000	_	7,452	 14,548	
Excees (Deficiency of Revenues over (under) Expenditures		(12,000)		(7,452)	 4,548	
Net Change in Fund Balance		(12,000)		(7,452)	4,548	-
Fund Balance, Beginning of Year		86,233		108,233	 22,000	 108,233
Fund Balance, End of Year	\$	74,233	\$	100,781	\$ 26,548	\$ 108,233

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –

Debt Service Fund

Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

Expenditures	Budget		 Actual	Va	riance	2019	
Debt service Principal Interest	\$	6,360 5,740	\$ 6,350 5,750	\$	10 (10)	\$	6,083 6,017
Total expenditures		12,100	 12,100		-		12,100
Net Change in Fund Balance		(12,100)	(12,100)		-		(12,100)
Fund Balance, Beginning of Year		53,226	 53,226				65,326
Fund Balance, End of Year	\$	41,126	\$ 41,126	\$		\$	53,226

City of Carlin

Schedule of Revenues, Expenditures, and Changes in Fund Balances – Budget and Actual –
Perpetual Cemetery Care Fund

Year Ended June 30, 2020

(With Comparative Actual Amounts for the Year Ended June 30, 2019)

Revenues	Budget		Actual		Variance		 2019
Miscellaneous Contributions from individuals Interest income	\$	3,000 100	\$	979 70	\$	(2,021) (30)	\$ 1,950 212
Total revenues		3,100		1,049		(2,051)	 2,162
Net Change in Fund Balance		3,100		1,049		(2,051)	2,162
Fund Balance, Beginning of Year		88,826		90,438		1,612	 88,276
Fund Balance, End of Year	\$	91,926	\$	91,487	\$	(439)	\$ 90,438

City of Carlin
Schedule of Revenues, Expenses, and Changes in Net Position – Budget and Actual – Utility Fund
Year Ended June 30, 2020
(With Comparative Actual Amounts for the Year Ended June 30, 2019)

	Budget	Actual	Variance	2019
Operating Revenues				
Utility fees				
Water	\$ 405,000	\$ 448,624	\$ 43,624	\$ 435,458
Garbage	240,000	252,265	12,265	247,211
Sewer	325,000	331,517	6,517	323,948
Street lights				
Use fees	27,500	30,286	2,786	27,590
Total operating revenues	997,500	1,062,692	65,192	1,034,207
Operating Expenses Water				
Salaries and wages	205,000	188,262	16,738	182,915
Employee benefits	99,000	92,777	6,223	61,687
Services and supplies	82,300	58,835	23,465	92,185
oci vices and supplies	386,300	339,874	46,426	336,787
Garbage				
Services and supplies	88,500	104,369	(15,869)	92,592
Sewer				
Salaries and wages	146,500	109,274	37,226	87,358
Employee benefits	79,000	52,563	26,437	22,446
Services and supplies	82,800	55,583	27,217	71,844
остина ана опружение	308,300	217,420	90,880	181,648
General				
Services and supplies	275,500	243,226	32,274	266,000
Depreciation	160,000	150,318	9,682	149,806
Depreciation	435,500	393,544	41,956	415,806
	433,300	333,344	41,550	415,000
Total operating expenses	1,218,600	1,055,207	163,393	1,026,833
Operating Income (Loss)	(221,100)	7,485	228,585	7,374
Nonoperating Revenues				
Interest and penalties earned	18,500	18,389	(111)	18,264
Miscellaneous income	16,000	-	(16,000)	-
Interest expense				
Total nonoperating				
revenues (expenses)	34,500	18,389	(16,111)	18,264
Income (Loss) Before Capital				
Contributions	(186,600)	25,874	212,474	25,638
Capital contributions	_	1,000	1,000	1,000
Change in Net Position	\$ (186,600)	26,874	\$ 213,474	26,638
	\$ (180,000)		\$ 213,474	
Net Position, Beginning of Year		4,525,032		4,498,394
Prior period adjustment		-		<u>-</u>
Net Position, Beginning of Year, as Restat	red	4,525,032		4,498,394
Net Position, End of Year	90	\$ 4,551,906		\$ 4,525,032

City of Carlin Schedule of Fees Imposed Subject to the Provisions of NRS 354.5989 Year Ended June 30, 2020

Flat Fixed Fees Business license revenue for the year ended June 30, 1991 (base year) adjusted through June 30, 2019	\$ 42,9	925_
Adjustment of Base Base year 1. Percentage increase in population of local government 0.15%		
2. Percentage increase in the Consumer Price Index for the year ending on December 31 next preceding the year for which the limit is being calculated 2.8%	3	.0%
	1,2	268
Adjusted base at June 30, 2020	44,1	193
Actual revenue	18,6	556
Amount under allowable amount	\$ 25,5	37



Independent Auditor's Report on Internal Control over Financial Reporting and on Compliance and Other Matters Based on an Audit of Financial Statements

Performed in Accordance with Government Auditing Standards

To the Honorable Mayor and Council City of Carlin State of Nevada

We have audited, in accordance with the auditing standards generally accepted in the United States of America and the standards applicable to financial audits contained in *Government Auditing Standards* issued by the Comptroller General of the United States, the financial statements of the governmental activities, the business-type activities, each major fund, and the aggregate remaining fund information of the City of Carlin, State of Nevada (the City), as of and for the year ended June 30, 2020, and the related notes to the financial statements, which collectively comprise the City's basic financial statements, and have issued our report thereon dated January 22, 2021.

Internal Control over Financial Reporting

In planning and performing our audit of the financial statements, we considered the City's internal control over financial reporting (internal control) as a basis for designing audit procedures that are appropriate in the circumstances for the purpose of expressing our opinions on the financial statements, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control. Accordingly, we do not express an opinion on the effectiveness of the City's internal control.

Our consideration of internal control over financial reporting was for the limited purpose described in the preceding paragraph and was not designed to identify all deficiencies in internal control over financial reporting that might be material weakness or significant deficiencies and therefore, material weaknesses or significant deficiencies may exist that have not been identified. However, as described in the accompanying schedule of findings and responses, we identified certain deficiencies in internal control that we consider to be material weaknesses and significant deficiencies.

A deficiency in internal control exists when the design or operation of a control does not allow management or employees, in the normal course of performing their assigned functions, to prevent, or detect and correct, misstatements on a timely basis. A material weakness is a deficiency, or a combination of deficiencies, in internal control such that there is a reasonable possibility that a material misstatement of the City's financial statements will not be prevented or detected and corrected on a timely basis. We consider the deficiency described in the accompanying schedule of findings and responses to be a material weakness (2020-001).

A significant deficiency is a deficiency, or a combination of deficiencies, in internal control that is less severe than a material weakness, yet important enough to merit attention by those charged with governance. We consider the deficiency described in the accompanying schedule of findings and responses to be a significant deficiency (2020-002).

Compliance and Other Matters

As part of obtaining reasonable assurance about whether the City's financial statements are free from material misstatement, we performed tests of its compliance with certain provisions of laws, regulations, contracts, and grant agreements, noncompliance with which could have a direct and material effect on the financial statements. However, providing an opinion on compliance with those provisions was not an objective of our audit, and accordingly, we do not express such an opinion. The results of our tests disclosed no instances of noncompliance or other matters that are required to be reported under *Government Auditing Standards*.

City of Carlin's Response to Findings

The City's response to the findings identified in our audit is described in the accompanying schedule of findings and responses. The City's response was not subjected to the auditing procedures applied in the audit of the financial statements and, accordingly, we express no opinion on it.

Purpose of this Report

Esde Saelly LLP

The purpose of this report is solely to describe the scope of our testing of internal control and compliance and the results of that testing, and not to provide an opinion on the effectiveness of the City's internal control or on compliance. This report is an integral part of an audit performed in accordance with *Government Auditing Standards* in considering the City's internal control and compliance. Accordingly, this communication is not suitable for any other purpose.

Elko, Nevada

January 22, 2021

2020-001

Report Preparation Material Weakness

Criteria:

Management of the City of Carlin (the City) is responsible for establishing and maintaining an effective system of internal control over financial reporting. One of the key components of an effective system of internal control is a finance staff with adequate resources available to prepare the financial statements in accordance with generally accepted accounting principles.

Condition:

Management does not prepare financial statements in accordance with generally accepted accounting principles. The City contracts with the external audit firm to prepare the City's audited financial statements and related note disclosures from the general ledger and applicable City records provided by the City's staff.

Cause:

Given the daily responsibilities of management, the resources of time and training necessary to prepare the City's financial statements in accordance with generally accepted accounting principles are not available. As a result, the City has chosen to contract with Eide Bailly LLP to prepare the financial statements. This circumstance is not unusual in an organization of this size, due to time constraints of management and costs associated with compliance of the standards.

Effect:

The City's internally prepared records upon which the financial statements are prepared do not contain all information required by generally accepted accounting principles.

Recommendation:

Management should perform a detailed review of all financial statements and fund trial balances throughout the year to ensure that all significant transactions have been appropriately reported. In addition, management and those charged with governance should annually make the decision to accept the degree of risk associated with this condition because of costs or other considerations.

Management's Response:

The City hired a third-party CPA consultant in June 2018. With the help and recommendations of the CPA consultant, management has been reviewing the financial statements throughout the year to ensure that all transactions have been appropriately reported. Also, at year-end, all year-end reconciliation and lead schedules have been prepared for the auditors. With our CPA consultant's help, management has been overseeing the City's financial statements preparation function. The City believes that outsourcing the financial preparation function to the external auditors is the most cost-effective.

2020-002

Ambulance Billings Significant Deficiency

Criteria:

Management is responsible for establishing and maintaining an effective system of internal controls over financial reporting. One of the key components of an effective system of internal control is the ability to ensure that accounting records accurately reflect the activities and transactions of the City.

Condition:

During our audit procedures, we noted that the City has not fully implemented a system of internal controls to ensure that all billable ambulance calls are reported to the third party biller for proper billing. City staff had designed a system of internal controls to ensure that all billable ambulance calls are reported to the third-party biller for billing. However, this internal control was not fully implemented during the year and monthly meeting were not always held.

Cause:

Internal controls in place were not sufficient to ensure that all billable ambulance calls are billed in a timely manner.

Effect:

Improper reporting of ambulance revenue and receivables.

Recommendation:

We recommend that the City enhance internal controls over ambulance billing to ensure that all ambulances calls are billed in a timely manner. Monthly meetings with the third party biller should be scheduled and held.

Management's Response:

Management understands the importance of correcting this deficiency. Please note that the monthly meeting between Management and the third-party biller was not a key internal control. It was more a tool Management was using to understand the processes and needs for the new third-party biller who took over in October 2019. Management, with the CPA consultant's help, will review the city's internal control procedures. Then we will adequately document all needed procedures to ensure all billable ambulance calls are reported to the third-party biller.



Auditor's Comments

To the Honorable Mayor and Council City of Carlin Carlin, Nevada

In connection with our audit of the financial statements of the governmental activities, the businesstype activities, each major fund, and the aggregate remaining fund information of the City of Carlin (the City) as of and for the year ended June 30, 2020, and the related notes to the financial statements, nothing came to our attention that caused us to believe that the City failed to comply with the specific requirements of Nevada Revised Statutes other than those cited below. However, our audit was not directed primarily toward obtaining knowledge of such noncompliance. Accordingly, had we performed additional procedures, other matters may have come to our attention regarding the City's noncompliance with the requirements of Nevada Revised Statutes cited below, insofar as they relate to accounting matters.

Current Year Statute Compliance

Compliance with Nevada Revised Statues is contained in Note 2 of the financial statements.

Progress on Prior Year Statute Compliance

The City of Carlin conformed to all significant statutory constraints on its financial administration for the year ended June 30, 2019.

Disposition of Prior Year Recommendations

Prior year audit findings were implemented, with the exception of finding 2019-A and 2019-B which are included in the current year as findings 2020-001 and 2020-002.

Current Year Audit Recommendations

Esde Saelly LLP

See items noted in the Schedule of Findings and Responses.

Elko, Nevada

January 22, 2021

APPENDIX H

SHORT-LIVED ASSETS

City of Carlin SEWER SYSTEM SHORT LIVED ASSETS - 2020

COMPONENT Lift Station	Unit Cost	# of Units	Total Cost		Annual Depreciation (S.L.)
Lift Station Oak Street Lift Station Pump Oak Street Lift Station Pump Motor Oak Street Lift Station Pump Motor Industrial Lift Station Pump Industrial Lift Station Pump Motor Industrial Lift Station Pump Motor Industrial Lift Station Pump Motor Co Effluent Pump Effluent Pump	\$28,000 \$56,000 \$28,000 \$12,000 \$12,000 \$14,000 \$28,000 \$56,000	2 2 1 <u>2</u> 2 1 2 2	\$112,000 \$28,000 \$24,000 \$24,000 \$14,000 \$56,000	12 10 15 12 10 15 12	\$4,667 \$11,200 \$1,867 \$2,000 \$2,400 \$933 \$4,667 \$11,200
Effluent Pump and Motor Controls SCADA System Treatmemt	\$28,000 \$150,000	<u>1</u> 1	\$28,000 \$150,000	15 12	\$1,867 \$12,500
5.0 HP Aeration Mixers 7.5 HP Aeration Mixers Level Sensors (Oak St wet well replacement)		2 2 2	\$14,000 \$56,000	12 12 15	\$667 \$1,167 \$3,733
Flow Meters (Varies) Sewer System Tools & Equipment Back Up Power Generator Office Furniture	\$3,000 \$112,000 \$5,000	<u>2</u> <u>1</u> 1	\$6,000 \$112,000 \$5,000	10 15 10	\$600 \$7,467 \$500
1-5 Year Annual Cost 6-10 Year Annual Cost 11-15 Year Annual Cost	<u>ψ3,000</u>		ψ3,000	10	\$0.00 \$25,900.00 \$41,533.33
SHORT LIVED ASSET TOTAL	\$571,000		\$805,000		\$67,433