

RECYLED WATER DISTRIBUTION SYSTEM, SOUTHWEST QUADRANT

Addendum #2 to the Tiered Mitigated Negative Declaration
State Clearinghouse Number 2014081078

Prepared for
City of Fresno

May 2019



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SECTION 1

Background and Purpose of the Addendum

1.1 Background

The City of Fresno (City) Recycled Water Distribution System, Southwest Quadrant Tiered Initial Study/Mitigated Negative Declaration (IS/MND) (SCH# 2014081078) analyzed impacts associated with conveying tertiary treated recycled water from the Regional Water Reclamation Facility (RWRf) for urban reuse, groundwater recharge, and agricultural reuse as part of the City's Recycled Water Master Plan (Master Plan).

The City adopted a Master Plan in April 2013 that identified potential recycled water use opportunities within the City and its Sphere of Influence (SOI), including Fresno County lands located in or adjacent to the SOI. The Master Plan includes a plan for the installation and operation of treatment, storage and distribution infrastructure to serve the Master Plan area with recycled water. The Master Plan is being implemented in a phased manner based on technical, funding, partnering, and other factors through 2025. The Master Plan informs the City's decision process in selecting recycled water projects that include expansion of the City's recycled water system to reduce the use of percolation ponds that currently handle effluent discharge, to offset potable water use, and to enhance the sustainability of water supplies.

On December 18, 2014, the City Council adopted the Tiered MND and approved the Recycled Water Distribution System, Southwest Quadrant project. The Tiered MND is on file at the City's Planning Department, and can be found at the City of Fresno Development and Resource Management Department, 2600 Fresno Street, Room 3043, Fresno, California 93721-3604. Following certification of the Tiered MND and project approval, refinements were made to the pump station location and segments of the pipeline routes. These refinements were included in an Addendum to the Tiered MND which was adopted and approved by the City Council on August 31, 2017. Since the adoption of the Addendum, further refinements have been made to the pipeline alignments. See Section 2 for a description of proposed refinements.

1.2 Purpose of this Addendum

The CEQA Guidelines (Sections 15162 and 15164) require that a lead agency prepare an addendum to a negative declaration if some changes or additions to the environmental evaluation of a project are necessary but none of the following occurs:

1. There are no substantial changes in the project which require major revisions to the mitigated negative declaration or a substantial increase in the severity of previously identified significant effects;
2. There are no substantial changes with respect to the circumstances under which the project is undertaken which require major revisions to the negative declaration; or
3. No new information of substantial importance, which could not have been known with the exercise of reasonable diligence at the time of negative declaration adoption, shows any of the following:
 - i. the project will have one or more significant effects not discussed in the negative declaration,
 - ii. the project will result in impacts substantially more severe than those disclosed in the negative declaration,
 - iii. mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponent declines to adopt it, or
 - iv. mitigation measures or alternatives that are considerably different from those analyzed in the negative declaration would substantially reduce one or more significant effects on the environment, but the project proponent declines to adopt it.

The purpose of this document is to (1) evaluate the refinements to the pipeline routes and (2) to provide documentation to support that the proposed refinements would not result in effects that meet the criteria described in CEQA Guidelines Sections 15162 and 15164 and, therefore, an Addendum is appropriate.

SECTION 2

Description of Project Changes

2.1 Project Overview

The City proposed to install recycled water distribution pipelines and construct a pump station in the City of Fresno's Southwest Quadrant. The proposed distribution pipelines would convey tertiary treated recycled water from the RWRf for urban reuse, groundwater recharge, and agricultural reuse as proposed as part of the City's Master Plan. The pump station would be connected to the proposed recycled water distribution pipeline segment SW 1B located along West Belmont Avenue as shown in **Figure 1**.

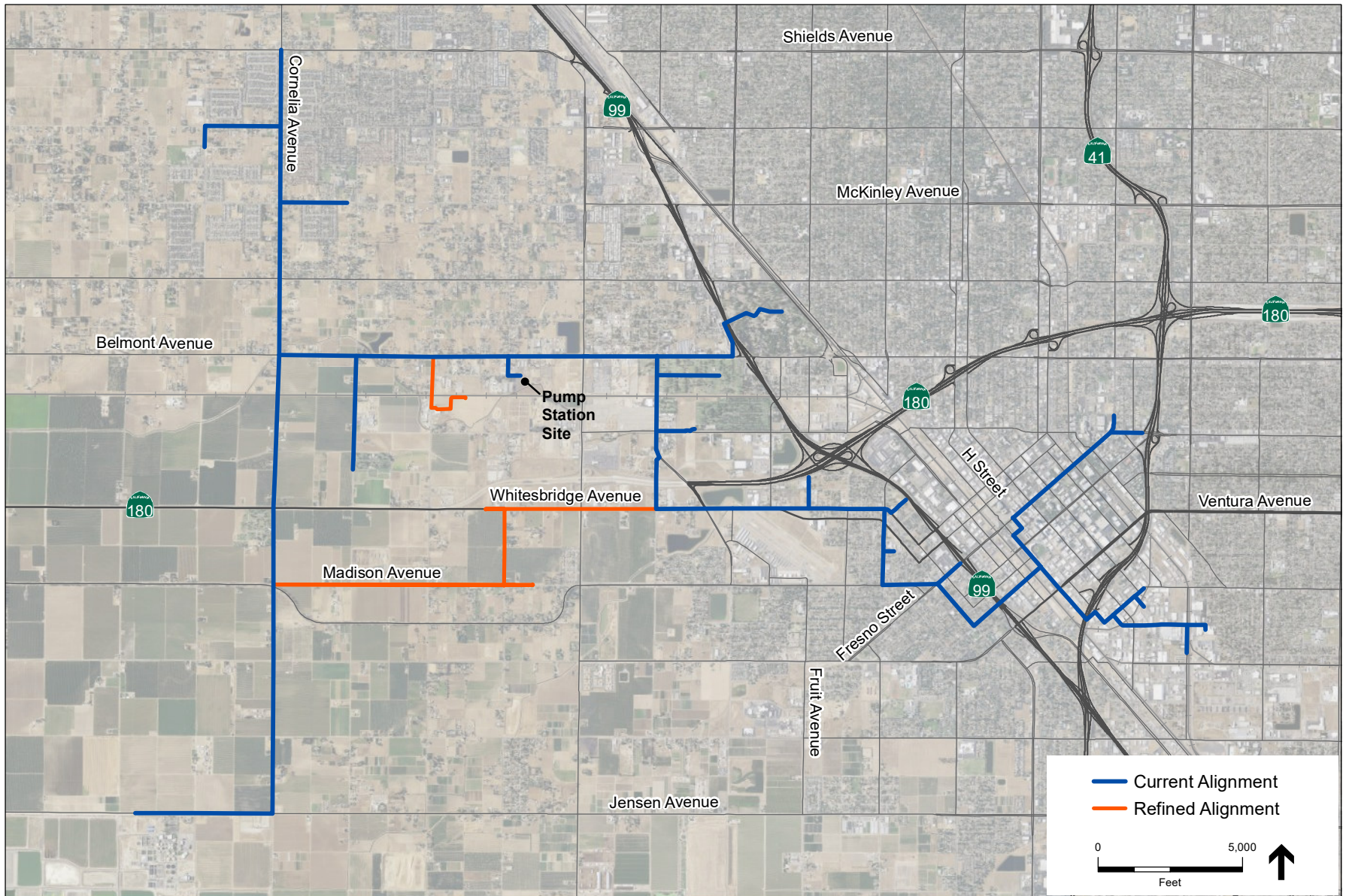
2.2 Proposed Project Changes

The City is proposing modifications to the alignment as shown in **Figure 1**. In total, the refined pipeline alignments would result in an addition of approximately 4 miles of pipeline. The Tiered MND analyzed approximately 22 miles of pipeline which was reduced by approximately 1,600 feet with the revisions analyzed in the 2017 Addendum. Therefore, when compared to the original pipeline length analyzed of approximately 22 miles, and the reduction of 1,600 feet as part of the 2017 Addendum, an increase of 4 miles as part of this Addendum would result in a net increase of 3.70 miles or a 16.82 percent increase in overall pipeline length from the Tiered MND. The following describes the changes in detail.

The first additional segment would begin at the intersection of West Belmont Avenue and North Brawley Avenue where it would connect to segment SW 1B of the existing alignment. From there the segment would run south along North Brawley Avenue for approximately 1,800 feet before travelling east into Nielsen Basin for approximately 1,600 feet before terminating.

The second additional segment would connect to segment SW 1A of the existing alignment at the intersection of South Cornelia Avenue and West Madison Avenue and extend approximately 9,000 feet east along West Madison Avenue before terminating. The alignment would also extend north along South Valentine Avenue between West Madison Avenue and West Whitesbridge Avenue for approximately 2,500 feet. Lastly, the alignment would extend along West Whitesbridge Avenue for approximately 5,900 feet from 700 feet west of the intersection of South Valentine Avenue and West Whitesbridge Avenue to the intersection of South Hughes Avenue and West Whitesbridge Avenue where it would connect to the segment SW 1C2 of the existing alignment.

Installation of the pipelines along the refined alignments would be consistent with the construction considerations described in Chapter 1, Project Description, pages 1-8 through 1-11 of the Tiered MND.



SOURCE: USDA, 2016; ESRI, 2012; Blair, Church, and Flynn, 2019; ESA, 2019

Fresno Recycled Water Project . 130412
Figure 1
 Original and Addendum Alignments

SECTION 3

Analysis of Potential Environmental Effects

Because project operations would remain unchanged, the focus of the analysis in this Addendum is on the proposed installation of the pipelines along the refined routes. Therefore, impacts related to project operations are not discussed further in this Addendum.

3.1 Aesthetics

Section 2.1 of the Tiered MND analyzed impacts to the aesthetics of the project area, and found that installation of the proposed pipelines and construction of the pump station could degrade the existing visual character or quality of the project area. Installation of the pipelines would require the use of heavy equipment, excavation and grading, and storage of materials on-site, which could result in temporary changes to the visual character of the surrounding areas. The Tiered MND concluded that implementation of Master Plan Environmental Impact Report (EIR) Mitigation Measures 4.11.2a through c and Master Plan EIR Mitigation Measure 4.11.3 would reduce impacts from construction activities by requiring areas disturbed during construction to be restored to pre-existing conditions, landscaping to be appropriately applied and maintained, facility designs include non-glare exterior coatings that are colored in earth tone, and shielding of nighttime lighting.

The pipelines proposed as part of the refined route would be installed primarily within existing road right-of-ways and would be located underground following installation. In addition, the proposed revisions would be required to comply with Master Plan EIR Mitigation Measures 4.11.2a-c and Master Plan EIR Mitigation Measure 4.11.3 to reduce impacts to less-than-significant levels. Therefore, installation of the pipelines along the refined routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.2 Agricultural and Forest Resources

Section 2.2 of the Tiered MND analyzed impacts to agricultural and forest resources, and concluded that installation of the proposed pipelines and construction of the pump station would not result in a significant conversion of farmland or forest resources because the pipelines would be installed underground primarily in existing road right-of-ways, and the pump station would not be located on land designated for agricultural or forest use. Installation of the pipelines along the refined routes would also primarily occur in existing road right-of-ways. Therefore, installation of the pipelines along the refined routes would not result in new significant impacts or a substantial

increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.3 Air Quality

Section 2.3 of the Tiered MND analyzed air quality impacts and concluded that installation of the pipelines and construction of the pump station could result in significant impacts due to construction activities generating short-term emissions of criteria air pollutants. The Tiered MND concluded that implementation of Master Plan EIR Mitigation Measure 4.7.1a to 4.7.1c would minimize potential construction related air emissions to a less than significant level by requiring compliance with Regulation VIII Rule 8011 and San Joaquin Valley Air Pollution Control District measures for dust control; Rule 9510 Indirect Source Review for reductions of 20% of the NO_x construction emissions and 45% of the PM₁₀ construction exhaust emissions or payment of mitigations fees; and off-road equipment used on site achieving fleet average emissions equal to or less than the Tier II emissions standard of 4.8 NO_x grams per horsepower-hour (g/hp-hr). Proposed installation activities for the proposed pipeline routes would be the same as those identified in the Tiered MND, except that they would occur in different locations and along slightly longer pipeline alignments. The refined pipeline alignments would result in approximately 3.70 miles of additional pipeline more than what was previously analyzed in the Tiered MND and 2017 Addendum. When compared to the original pipeline length analyzed of approximately 22 miles, and the reduction of 1,600 feet as part of the 2017 Addendum, an increase of 4 miles as part of this Addendum would result in a net increase of 3.70 miles or a 16.82 percent increase in overall pipeline length from the Tiered MND. Therefore, the additional pipeline length would result in only a small increase in construction time, which would correlate to a small increase in the generation of short-term emissions of criteria air pollutants. In addition, installation of the refined pipeline routes would be required to comply with Master Plan EIR Mitigation Measures 4.7.1a to 4.7.1c to reduce impacts to less-than-significant levels. Therefore, construction of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND.

3.4 Biological Resources

Section 2.4 of the Tiered MND analyzed impacts to biological resources and concluded that installation of the pipelines and construction of the pump station could result in significant impacts to special-status species and their habitats, seasonal movement for migratory wildlife species, protected trees, and jurisdictional waters of the United States. As identified within the Tiered MND, these impacts would be reduced to less than significant with implementation of Master Plan EIR Mitigation Measures 4.5.2, 4.5.4a, 4.5.4b, 4.5.8, and 4.5.10, and Tiered MND Mitigation Measures BIO-1 and BIO-2.

Installation of pipeline along the refined alignment had not been previously surveyed for biological resources. An Environmental Science Associates (ESA) biologist conducted a field reconnaissance survey of the refined alignment on April 18, 2019, which includes new sections of pipeline along West Madison Avenue, West Whitesbridge Avenue, and North Brawley Avenue.

The survey identified no additional sensitive biological resources within the refined pipeline alignment.

Based on observations made during the biologist's reconnaissance survey, the refined pipeline alignments mostly follow paved roads in rural residential, agricultural, or commercial and industrial areas. A limited number of ground squirrel (*Otospermophilus beecheyi*) burrows and burrow complexes were observed in a landscaped grass area in front of a commercial building along West Whitesbridge Avenue. These burrows may potentially provide habitat for special-status burrowing animals including western burrowing owl (*Athene cunicularia*) and San Joaquin kit fox (*Vulpes macrotis mutica*). No western burrowing owl or San Joaquin kit fox individuals or signs of their presence were observed at or around the burrow entrances. The biologist did not observe any burrows or California ground squirrel activity in the ruderal fields adjacent to the refined alignment, and no western burrowing owl or San Joaquin kit fox individuals were observed in those fields. If the species or active dens or burrows are present in the ruderal fields during installation, disturbance associated with these activities could temporarily result in elimination of areas essential for seasonal movement as well as harm to individuals if present during construction activities. Implementation of Master Plan EIR Mitigation Measures 4.5.2, 4.5.4a, and 4.5.4b would reduce potential impacts to burrowing owl and San Joaquin kit fox to a less than significant level by implementing preconstruction surveys, buffer zones around dens, worker education, and other measures as specified therein.

Birds, including raptors, and bats have the potential to nest or roost within the trees along the refined alignment. An active red-tailed hawk (*Buteo jamaicensis*) nest was observed in a eucalyptus tree located approximately 1,200 feet north of the refined alignment along West Madison Avenue. That nest is far enough away that it would not be affected by installation activities associated with the refined pipeline alignments because nesting raptors often require a buffer of only up to a 500-foot radius. However, if passerine birds and raptors which are protected by the Migratory Bird Treaty Act are nesting close to the project's vicinity, installation activities could cause nest abandonment or loss of reproductive potential. Other potential impacts to these species during project installation include the potential for harm to individual birds, if present, and the loss of suitable nesting and foraging habitat. Therefore, installation of pipelines along the refined alignments could have a potentially significant impact on nesting birds. Implementation of Master Plan EIR Mitigation Measure 4.5.2 would be required to reduce impacts to nesting birds to a less than significant level by completing preconstruction surveys, avoiding nesting birds, and establishing buffer zones as warranted; the buffer zone may vary depending on species and site specific conditions as approved by the California Department of Fish and Wildlife. Therefore, the refined project would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.5 Cultural Resources

Section 2.5 of the Tiered MND noted that potentially significant impacts to cultural resources during the construction phase would be limited to unidentified prehistoric or historic subsurface cultural resources. Master Plan EIR Mitigation Measures 4.12.2b and 4.12.2c include

implementation of a construction worker training program and measures to protect the unexpected discovery of subsurface resources during construction. Master Plan EIR Mitigation Measures 4.12.4a and 4.12.4b provide for review of discovered paleontological resources by a qualified paleontologist, and implementation of a resource monitoring and mitigation program, as relevant. Master Plan EIR Mitigation Measure 4.12.3 would require contact with the County coroner and the Native American Heritage Commission as warranted. The Tiered MND concluded that implementation of these mitigation measures would reduce impacts to previously unidentified archeological resources to a less-than-significant level.

The refined pipeline routes are located partially within the ½ mile buffer area considered in the records search performed for the Tiered MND (Figures 3a-c): ESA conducted a records search for this project at the San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System at California State University Bakersfield on October 21, 2013 (RS# 13-429) September 23, 2014 (RS# 14-333), and conducted an updated records search for the refined pipeline alignments on April 29, 2019 (RS#19-142). These records searches indicated no documented resources within or adjacent to the refined pipeline routes. Additionally, an ESA archaeologist conducted a pedestrian field survey of the refined pipeline alignments on April 17, 2019 and April 24, 2019. The field survey identified no prehistoric or historic period resources within the refined pipeline alignments.

Five historic resources were identified intersecting or adjacent to the original pipeline alignments, although the previous addendum resulted in the removal of two of these (P-10-6032, the Weber Avenue Overcrossing; and P-10-4513, Belmont Avenue Subway), as well as the evaluation of the Houghton Canal (recommended ineligible due to a lack of significant associations). The refined alignment includes the remaining three historical resources identified in the original project as adjacent to the refined pipeline alignments, but no additional historical resources were identified during the current course of study. no longer intersect the APE.

ESA cultural resources specialists determined that the refined pipeline routes would not result in direct or indirect impacts to these resources that would hinder their ability to convey their historic significance. Subsequently, installation of the refined pipeline routes would result in no anticipated impacts to historical resources. Installation of the refined pipeline route is not anticipated to encounter subsurface resources, paleontological resources or human remains, but would be required to comply with Master Plan EIR Mitigation Measures 4.12.2b and 4.12.2c, Master Plan EIR Mitigation Measures 4.12.4a and 4.12.4b; and Master Plan EIR Mitigation Measure 4.12.3 to reduce impacts to less-than-significant levels. In the unlikely event resources are discovered during installation, implementation of these mitigation measures would ensure that the proper procedures are followed should the unexpected discovery of subsurface resources, paleontological resources, or human remains occur. Therefore, the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.6 Geology, Soils, and Seismicity

Section 2.6 of the Tiered MND analyzed potential impacts to geology and soils and concluded that pipelines could be subject to damage resulting from a seismic event or unstable soil conditions. The Tiered MND concluded that implementation of Master Plan EIR Mitigation Measures 4.3.1a-c and Tiered MND Mitigation Measure GEO-1 would reduce the impacts to a less-than-significant level by providing for the preparation of a soil and geotechnical engineering study for the project, a Phase 1 and if necessary Phase 2 site assessment(s) for the pump station site, and adherence to California Building Code standards and pipeline design guidelines provided by the American Water Works Association. The pump station site was moved in the 2017 Addendum and compliance with Mitigation Measure GEO-1 was no longer required to mitigate potential impacts from contaminated soils. Implementation of the refined pipeline routes would be similar to the approved project except that potential geology, soils, and seismicity impacts would occur in different locations. The refined project would also result in the installation of buried pipelines. Although located in a different location than the approved project, the modified pipeline alignments would be required to comply with Master Plan EIR Mitigation Measures 4.3.1a-c to reduce impacts to less-than-significant levels. Therefore, the refined pipeline alignments would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.7 Greenhouse Gas Emissions

Section 2.7 of the Tiered MND analyzed greenhouse gas emissions and climate change impacts and concluded that there would be less-than-significant impacts due to greenhouse gas emissions and climate change. The refined pipeline alignments would result in approximately 4 additional miles of pipeline from what was previously analyzed in the Tiered MND. However, when compared to the original pipeline length analyzed of approximately 22 miles, and the reduction of 1,600 feet as part of the 2017 Addendum, an increase of 4 miles as part of this Addendum would result in a net increase of 3.70 miles or a 16.82 percent increase in overall pipeline length from the Tiered MND. Installation activities along the refined pipeline alignments would be similar to those described for pipelines under the Tiered MND. Therefore, the additional pipeline length would result in only a small increase in construction time, which would correlate to a small increase in the generation of greenhouse gas emissions. Greenhouse gas emissions of the original project were not near any significance thresholds; therefore, small increases anticipated under the refined project would not result in a significant impact or require additional mitigation. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.8 Hazards and Hazardous Materials

Section 2.8 of the Tiered MND analyzed impacts related to hazards and hazardous materials, and concluded that the installation of proposed pipelines and construction of the pump station could

result in an accidental discovery and/or release of hazardous materials, interference with emergency vehicle access, and wildfire. The Tiered MND concluded that implementation of Master Plan EIR Mitigation Measures 4.6.1a and 4.6.1b, and 4.9.1a-c, Tiered MND Mitigation Measure GEO-1 and Tiered MND Mitigation Measure HM-1 would reduce the impacts to a less-than-significant level by requiring coordination with appropriate local governments and emergency providers, and ensuring implementation of fire risk reducing measures.

The refined pipeline routes do not have a history of hazardous material use and no new hazardous materials sites were discovered during an updated online search of hazardous materials sites compiled pursuant to Government Code Section 65962.5. The refined pipeline routes would result in similar impacts from accidental discovery and/or release of hazardous materials, interference with emergency vehicle access, and wildfire. Installation of the refined pipeline routes would be required to comply with Master Plan EIR Mitigation Measures 4.6.1a and 4.6.1b, Master Plan EIR Mitigation Measures 4.9.1a-c, and Tiered MND Mitigation Measure HM-1 to reduce impacts to less-than-significant levels. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.9 Hydrology and Water Quality

Section 2.9 of the Tiered MND analyzed impacts to hydrology and water quality and concluded that installation of the pipelines and construction of the pump station could result in significant impacts to water quality. Adherence to Best Management Practices (BMPs) as part of obtaining a National Pollutant Discharge Elimination System (NPDES) General Construction Permit would reduce impacts from waterborne pollutants entering natural waters to less-than-significant. BMPs may include, but would not be limited to:

- Physical barriers to prevent erosion and sedimentation including setbacks and buffers, rooftop and impervious surface disconnection, rain gardens and cisterns, and other installations;
- Construction and maintenance of sedimentation basins;
- Limitations on construction work during storm events;
- Use of swales, mechanical, or chemical means of stormwater treatment during construction, including vegetated swales, bioretention cells, chemical treatments, and mechanical stormwater filters; and
- Implementation of spill control, sediment control, and pollution control plans and training.

The specific BMPs to be implemented would be determined prior to issuance of the NPDES General Permit, in coordination with the Central Valley Regional Water Quality Control Board.

The installation of the refined pipeline routes would also be installed underground and would occur primarily in existing road right-of-ways and constructed in the same manner as previously analyzed. During installation, the refined pipeline routes would also be required to comply with the conditions of the NPDES General Construction Permit, including applicable BMPs, which

would ensure that potential water quality impacts would be minimized. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.10 Land Use and Land Use Planning

Section 2.10 of the Tiered MND analyzed impacts to land use planning and concluded that installation of the pipelines and construction of the pump station could result in significant impacts to an applicable land use plan because the approved pump station site was included within the solid waste disposal site boundary for inert wastes. Tiered MND Mitigation Measure LU-1 required an amendment of the solid waste disposal site boundary before purchasing the original pump station site, which was no longer necessary for the revised pump station site as analyzed in the 2017 Addendum. The pipelines along the refined pipeline routes would be buried underground following construction and would not result in a change to existing or planned land uses. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.11 Mineral Resources

Section 2.11 of the Tiered MND analyzed impacts to mineral resources and concluded that no impact to mineral resources would occur. Installation of the pipeline along the refined route would also occur primarily in existing road right-of-ways and would not be located over any mineral resource area, preventing future resource excavation. Therefore, installation of the refined pipeline route would not result in new significant impacts or a substantial increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.12 Noise

Section 2.12 of the Tiered MND analyzed noise impacts and concluded that there would be significant temporary increases in noise and ground-borne vibration levels associated with installation of the pipelines and construction of the pump station. The Tiered MND concluded that implementation of Master Plan EIR Mitigation Measures 4.8.1 and 4.8.2 would reduce noise levels when activities occur adjacent to sensitive receptors to less-than-significant levels. Installation of the pipelines along the refined route would result in the same noise and vibration levels as those associated with the approved pipeline routes, but in different locations. Installation of the refined pipeline routes would be required to comply with Master Plan EIR Mitigation Measures 4.8.1 and 4.8.2 to reduce impacts to less-than-significant levels. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.13 Population and Housing

Section 2.13 of the Tiered MND analyzed impacts to population and housing and concluded that there would be less-than-significant impacts to growth and no impact to displacement of housing or people. Implementation of the project would distribute recycled water to meet a small portion of the total demand from planned development that was evaluated in the adopted 2025 Fresno General Plan, General Plan Master EIR (MEIR) and Air Quality MND. Recycled water distributed under the project would be used to offset demand that would otherwise be met using groundwater or imported surface water supplies. Installation of the refined pipeline routes would also distribute recycled water and offset demand that would otherwise be met using groundwater or imported surface water and would not result in displacement of existing homes or substantial numbers of people above what was previously analyzed in the Tiered MND. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.14 Public Services

Section 2.14 of the Tiered MND analyzed impacts to public services and concluded that there would be no generation of new population growth, increase of staff to operate and maintain facilities or increase the demand for public services. Installation of the refined pipeline routes would distribute recycled water that would be used to offset demand that would otherwise be met using groundwater or imported surface water supplies and therefore not generate new population growth above existing assumed levels. In addition, the operation and maintenance of the refined pipeline routes would not require the City to hire additional staff to operate and maintain facilities because the pipeline would result in a small increase in overall pipeline length. Thus, installation of the refined pipeline routes would not increase the demand for the kinds of public services that would support new residents, such as schools, parks, fire, police, or other public facilities. Therefore, installation of refined pipeline routes would not result in new significant impacts or a substantial increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.15 Recreation

Section 2.15 of the Tiered MND analyzed impacts to recreation and concluded that there would be temporary interference with access to portions of the Rotary Storyland and Playland Park and Roeding Park. Access would be restored following completion of construction activities, and therefore would not result in a significant impact. The refined pipeline alignments would not result in interference with access to recreation facilities. Therefore, the refined pipeline alignments would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.16 Transportation and Traffic

Section 2.16 of the Tiered MND analyzed impacts to transportation and concluded that installation of the pipelines and pump station could result in significant impacts due to vehicle trips generated by construction workers and construction vehicles on area roadways and reduced travel lanes, potential traffic safety hazards, and impediments to emergency vehicle access. The Tiered MND concluded that implementation of Master Plan EIR Mitigation Measure 4.6.1a and 4.6.1b would reduce these impacts to less than significant by requiring development and implementation of a traffic management plan, obtaining necessary road encroachment permits, and coordination with local governments, agencies, and departments. Installation of the pipeline along the refined pipeline routes would result in similar impacts to transportation as those associated with the approved pipeline routes, but in different locations. Installation of the refined pipeline routes would be required to comply with Master Plan EIR Mitigation Measure 4.6.1a and 4.6.1b to reduce impacts to less-than-significant levels. Therefore, installation of the refined pipeline routes would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

3.17 Utilities and Service Systems

Section 2.17 of the Tiered MND analyzed impacts to utilities and service systems and concluded that impacts would be less-than-significant. The quantity of solid waste is expected to be minimal and local landfills have adequate capacity. Installation of the refined pipeline alignments would be similar to the approved project except that the installation would occur in different locations. The refined project would also result in the installation of buried pipelines, although located in a difference location than the approved project. When compared to the original pipeline length analyzed of approximately 22 miles, an increase of 4 miles as part of this Addendum would result in a net increase of 3.70 miles or a 16.82 percent increase in overall pipeline length from the Tiered MND. The small increase in pipeline length would result in a small increase in solid waste created; however, because the local landfills have adequate capacity and the refined pipeline routes would only result in a minimal increase in waste, the project is not anticipated to affect the capacity of the local landfills. The refined pipeline alignments would be installed underground and would occur primarily in existing road right-of-ways and would not result in an increased amount of impervious surfaces. Therefore, installation of the pipelines along the refined alignment would not result in new significant impacts or a substantial increase in the severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

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SECTION 4

Conclusion

On the basis of the evaluation presented in Section 3, the proposed refinements to the pipeline routes would not trigger any of the conditions listed in Section 1.2 of this Addendum requiring preparation of a subsequent or supplemental MND. All mitigation measures from the Master Plan EIR and Tiered MND apply to the proposed refinements to the pipeline routes except Tiered MND Mitigation Measure LU-1 and Tiered Mitigation Measure GEO-1, as described previously in Section 3, Analysis of Potential Environmental Effects. This Addendum satisfies the requirements of CEQA Guidelines Sections 15162 and 15164. Under CEQA, modifications that are not substantial, but represent minor changes or additions may be presented in an addendum and does not require circulation. This document will be made part of the administrative record and will be transmitted to the lead agency decision-making body along with the certified Master Plan EIR and Tiered MND to provide clarification regarding proposed refinements outlined above and to comply with CEQA Guidelines Section 15164.

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APPENDIX A

Cultural Resources Technical Memo

memorandum

date May 1, 2019

to Todd Gordon, ESA Project Manager

cc

from Kathy Cleveland, ESA Architectural Historian; Mai Lee, ESA Archaeologist

subject Recycled Water Distribution System, Southwest Quadrant Addendum #2 – Cultural Resources Analysis

The following cultural resources analysis was conducted as part of the Fresno Recycled Water Distribution System, Southwest Quadrant Addendum #2 for the proposed revisions of the pipeline alignment from the September 2017 addendum Tiered MND. This addendum document incorporates by reference the regulatory and background setting information from those earlier documents, focusing this analysis on the segments of the proposed additional pipeline alignment not previously analyzed in earlier Tiered MND or subsequent Addendum.

Project Background

The City of Fresno (City) Recycled Water Distribution System, Southwest Quadrant Tiered Initial Study/Mitigated Negative Declaration (IS/MND) (SCH# 2014081078) analyzed impacts associated with conveying tertiary treated recycled water from the Regional Water Reclamation Facility (RWRF) for urban reuse, groundwater recharge, and agricultural reuse as part of the City's Recycled Water Master Plan (Master Plan).

The City adopted a Master Plan in April 2013 that identified potential recycled water use opportunities within the City and its Sphere of Influence (SOI), including Fresno County lands located in or adjacent to the SOI. The Master Plan includes a plan for the installation and operation of treatment, storage and distribution infrastructure to serve the Master Plan area with recycled water. The Master Plan is being implemented in a phased manner based on technical, funding, partnering, and other factors through 2025. The Master Plan informs the City's decision process in selecting recycled water projects that include expansion of the City's recycled water system to reduce the use of percolation ponds that currently handle effluent discharge, to offset potable water use, and to enhance the sustainability of water supplies.

On December 18, 2014, the City Council adopted the Tiered MND and approved the Recycled Water Distribution System, Southwest Quadrant project. The Tiered MND is on file at the City's Planning Department, and can be found at the City of Fresno Development and Resource Management Department, 2600 Fresno Street, Room 3043, Fresno, California 93721-3604. Following certification of the Tiered MND and project approval,

refinements were made to the pump station location and segments of the pipeline routes. These refinements were included in an Addendum to the Tiered MND which was adopted and approved by the City Council on August 31, 2017. Since the adoption of the Addendum, further refinements have been made to the pipeline alignments, and are described below. These alignment changes are the subject of this Addendum.

Project Description and Location

The City proposes to install recycled water distribution pipelines and construct a pump station in the City of Fresno's Southwest Quadrant. The City is proposing modification to the alignment as shown in **Figure 1**, in total resulting in an addition of approximately 4 miles of pipeline to the original 22 miles analyzed in the Tiered MND. Installation of the pipelines along the additional alignment would occur within the existing road right-of way, and be consistent with the construction considerations described in Chapter 1, Project Description, of the Tiered MND pages 1-8 through 1-11.

The first additional segment would begin at the intersection of West Belmont Avenue and North Brawley Avenue where it would connect to segment SW 1B of the existing alignment. From there the segment would run south along North Brawley Avenue for approximately 1,800 feet before travelling east into Nielsen Basin for approximately 1,600 feet before terminating.

The second additional segment would connect to segment SW 1A of the existing alignment at the intersection of South Cornelia Avenue and West Madison Avenue and extend approximately 9,000 feet east along West Madison Avenue before terminating. The alignment would also extend north along South Valentine Avenue between West Madison Avenue and West Whitesbridge Avenue for approximately 2,500 feet. Lastly, the alignment would extend along West Whitesbridge Avenue for approximately 5,900 feet from 700 feet west of the intersection of South Valentine Avenue and West Whitesbridge Avenue to the intersection of South Hughes Avenue and West Whitesbridge Avenue where it would connect to the segment SW 1C2 of the existing alignment.

Archival Review

The refined pipeline routes are located partially within the ½ mile buffer area considered in the records search performed for the Tiered MND. ESA conducted records searches for the original project, as well as the previous addendum analysis, at the San Joaquin Valley Information Center (SSJVIC) of the California Historical Resources Information System at California State University Bakersfield on October 21, 2013 (RS# 13-429) September 23, 2014 (RS# 14-333). ESA also requested SSJVIC staff conducted a supplemental records search on April 29, 2019 (RS#19-142) to address the portions of the additional pipeline alignment outside of the previously conducted records searches. **Attachment A** includes the records search summary letter provided by the SSJVIC as part of this addendum analysis.

Records Search Results

The April 2019 records search identified five previously completed reports intersecting portions of the refined pipeline alignments, and three additional reports within the ½ mile buffer of the refined pipeline alignments, not previously documented by earlier analysis. **Table 1** below describes and summarizes these reports.

TABLE 1
REPORTS CONDUCTED WITHIN ½ MILE OF THE PROJECT SITE

Reports #	Author: Title	Intersecting Proposed new Alignment (y/n)
FR-00194	Brewer, Christopher: Historic Property Survey Report for the Dry Creek Canal, City of Fresno, California	N
FR-00249	Bowen, Carrie L.: Historical Property Survey Report and Finding of No Effect for Route 180 Study Area Preservation of Right of Way from Route 99 to Brawley Avenue in the City of Fresno	Y
FR-00250	Fisher, Jim: Historical Architectural Survey Report for the Proposed Construction of Route 180 From Brawley Avenue to Thorne Avenue in the City of Fresno	Y
FR-01847	Knudson, Holly D.: Review of the Proposed Bechtel Telecommunications/AT&T Wireless Services Project "Kearney Park," located at 287 South Brawley Avenue, Fresno, California	N
FR-02232	Brady, Jon L.: Second Supplemental Historic Resource Evaluation Report for the State Route 180 West Freeway Project, Brawley Avenue and Hughes - West Diagonal	Y
FR-02501	Binning, Jeanne: Historic Property Survey Report for Route 180 Planned Westside Expressway from I-5 to Valentine Ave, Fresno, Fresno County, California	Y
FR-02505	Leach-Palm, Laura, Rosenthal, Jeffrey, Byrd, Brian, Mikkelson, Pat, and Waechter, Sharon: Preliminary Assessment of the Archaeological Sensitivity for the Route 180 Westside Expressway Route Adoption Study Between Interstate 5 and the City of Fresno, Fresno County, California Interstate 5 PM 9.0 (KP 14.5) to 06-FRE-180 PM 54.2 (KP 87 Valentine Avenue) EA06-451400	Y
FR-02506	Brady, Jon and Bunse, Rebecca: Historic Property Survey Report for the Dry Creek Canal, City of Fresno, California	N

Source: SSJVIC, 2019

The April 2019 records search identified 10 previously recorded historic period resources documented adjacent to the refined pipeline alignments, although none of these resources had been determined eligible for listing in the National Register of Historic Places. **Table 2** below describes and summarizes these resources.

No new resources were identified along the refined pipeline alignments. Five historic resources had been previously identified intersecting or adjacent to the original pipeline alignment: Fresno Water Tower (P-10-4277), the Fresno Brewery (P-10-4299), SHL #873 (Free Speech Fight Site), the Weber Avenue Overcrossing (P-10-6032); and Belmont Avenue Subway (P-10-4513). The 2017 Addendum resulted in the removal of two of these from the project area (P-10-6032, the Weber Avenue Overcrossing; and P-10-4513, Belmont Avenue Subway), and resulted in the evaluation of the Houghton Canal that intersected that alignment. The canal was recommended ineligible due to a lack of significant associations.

TABLE 2
RECORDED SITES IDENTIFIED WITHIN ½ MILE OF THE PROJECT SITE

P# / Map ID	Name / Description	Eligibility Determination
P-10-005021	Nishikawa Home, 63 South Brawley Avenue Fresno 93706 (APN 326-170-18)	Ineligible as an individual resource in the NR
P-10-005022	63 South Brawley Avenue Fresno 93706 (APN 326-170-18)	Ineligible as an individual resource in the NR
P-10-005023	Mortensen Residence, 3655 West Whites Bridge Road Fresno 93706	Ineligible as an individual resource in the NR
P-10-005024	Bill's Bait and Tackle, 4032 West Whites Bridge Road Fresno 93706 (APN 326-080-11)	Ineligible as an individual resource in the NR

P-10-005025	Garolian Residence, 116 S. Valentine Fresno 93706 (APN 326-150-05)	Ineligible as an individual resource in the NR
P-10-005026	139 South Valentine Avenue Fresno 93706 (APN 326-190-13)	Ineligible as an individual resource in the NR
P-10-006067	Map Reference No. 1; Ostergaard Property, 115 N. Brawley Avenue Fresno 93706 (APN 326-080-30)	Ineligible as an individual resource in the NR
P-10-006068	Map Reference No. 12; Dean Property, 111 N. Valentine Avenue Fresno 93706 (APN 326-190-05)	Ineligible as an individual resource in the NR
P-10-006069	Map Reference No. 14; La Verne Property, 186 N. Valentine Avenue Fresno 93706 (APN 326-150-03)	Ineligible as an individual resource in the NR
P-10-006070	Map Reference No. 15; Lewis Property, 156 N. Valentine Avenue Fresno 93706 (APN 326-150-04)	Ineligible as an individual resource in the NR

Source: SSJVIC, 2019

Note: NR – National Register of Historic Places

Field Survey

An ESA archaeologist conducted a pedestrian field survey of the refined pipeline alignments on April 17, 2019 and April 24, 2019. Attachment B includes the Cultural Resources Survey Form, including photographs and narrative description of conditions and survey methodology, completed by ESA archaeologist Mai Le.

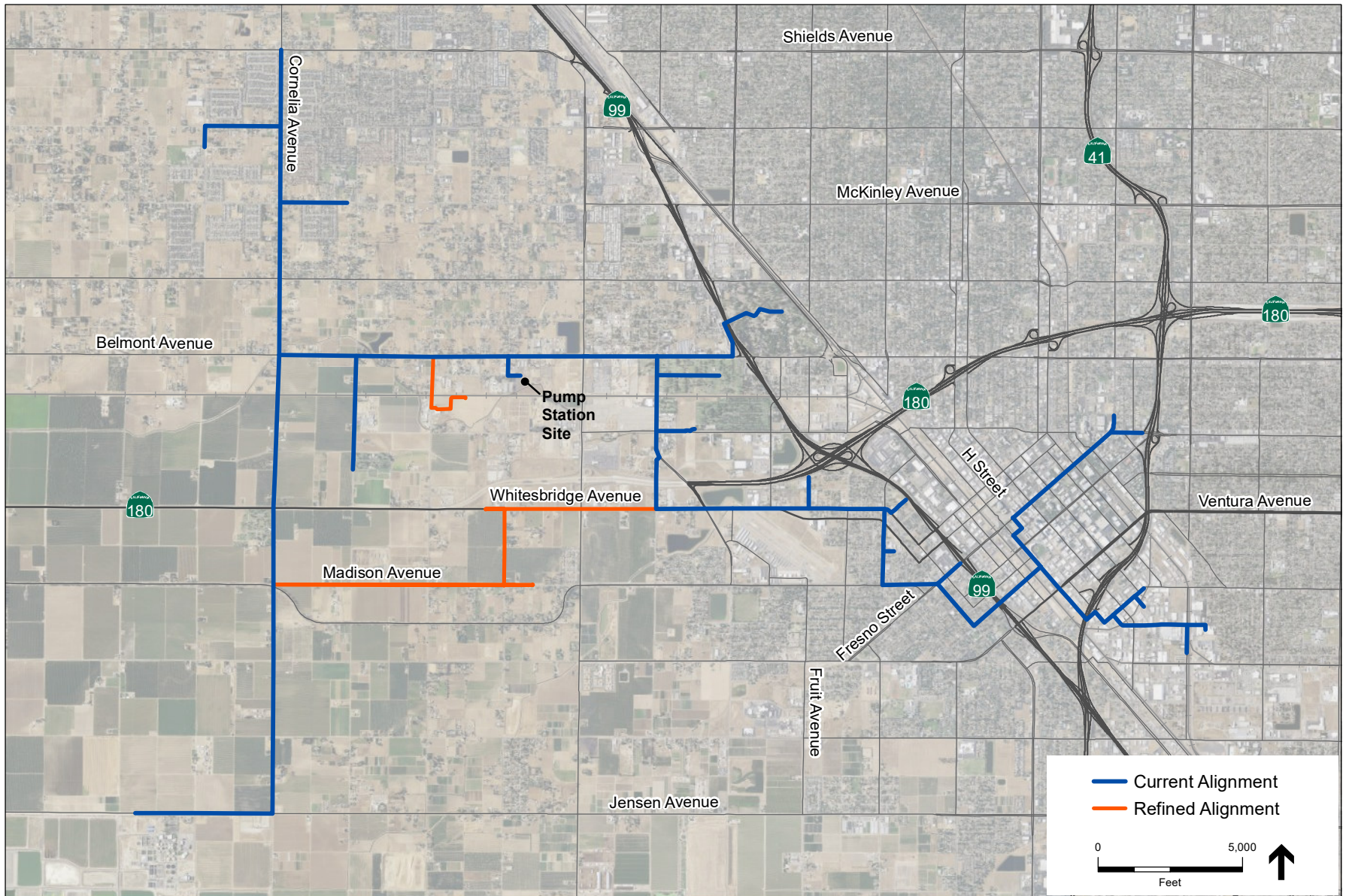
Results and Recommendations

Neither archival review nor field survey identified any prehistoric or historic period resources within the additional pipeline alignment segments. Five historic resources had been previously identified intersecting or adjacent to the original pipeline alignment, although the previous addendum resulted in the removal of two of these (P-10-6032, the Weber Avenue Overcrossing; and P-10-4513, Belmont Avenue Subway) from the project area, along with the evaluation of the Houghton Canal (recommended ineligible due to a lack of significant associations). The current comprehensive alignment, including the proposed additional alignment, includes the remaining three historical resources identified in the original project as adjacent to the proposed comprehensive pipeline alignment, but no additional historical resources were identified during the current course of study.

Figure 2 shows the locations of these remaining historical resources.

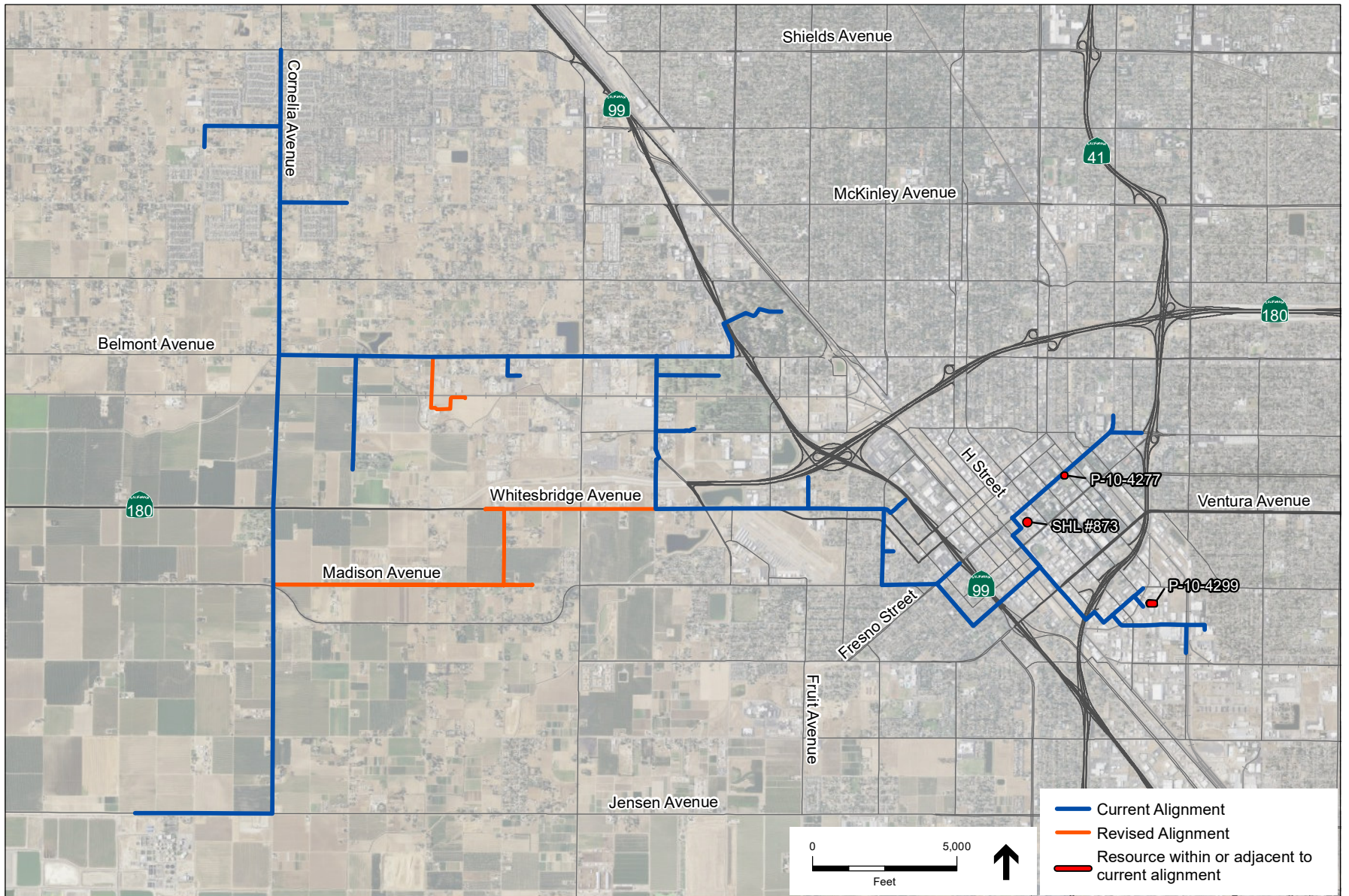
ESA cultural resources specialists determined that the refined pipeline alignments would not result in direct or indirect impacts to these resources that would hinder their ability to convey their historic significance. Subsequently, construction of the refined pipeline alignments would result in no anticipated impacts to historical resources. Construction of the refined pipeline alignments are not anticipated to encounter subsurface resources, paleontological resources or human remains, but would be required to comply with Master Plan EIR Mitigation Measures 4.12.2b and 4.12.2c, Master Plan EIR Mitigation Measures 4.12.4a and 4.12.4b; and Master Plan EIR Mitigation Measure 4.12.3. In the unlikely event resources are discovered during construction, implementation of these mitigation measures would ensure that the proper procedures are followed should the unexpected discovery of subsurface resources, paleontological resources, or human remains occur. Therefore, the refined pipeline alignments would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

Figures



SOURCE: USDA, 2016; ESRI, 2012; Blair, Church, and Flynn, 2019; ESA, 2019

Fresno Recycled Water Project . 130412
Figure 1
 Original and Addendum Alignments



SOURCE: USDA, 2016; ESRI, 2012; Blair, Church, and Flynn, 2019; ESA, 2019

Fresno Recycled Water Project . 130412
Figure 2
 Cultural Resources within the
 Original and Addendum Alignments

Attachment A. SSJVIC Records Search Letter



4/29/2019

Katherine Cleveland
 Environmental Science Associates
 2600 Capitol Ave., Suite 200
 Sacramento, CA 95816

Re: Fresno Recycled Water Pipeline Addendum (130412.01)
 Records Search File No.: 19-142

The Southern San Joaquin Valley Information Center received your record search request for the project area referenced above, located on the Fresno South USGS 7.5' quad. The following reflects the results of the records search for the project area and the 0.5 mile radius:

As indicated on the data request form, the locations of resources and reports are provided in the following format: custom GIS maps shapefiles

Resources within project area:	None
Resources within 0.5 mile radius:	P-10-005021, 005022, 005023, 005024, 005025, 005026, 006067, 006068, 006069, 006070
Reports within project area:	FR-00249, 00250, 02232, 02501, 02505
Reports within 0.5 mile radius:	FR-00194, 01847, 02506

Resource Database Printout (list): enclosed not requested nothing listed

Resource Database Printout (details): enclosed not requested nothing listed

Resource Digital Database Records: enclosed not requested nothing listed

Report Database Printout (list): enclosed not requested nothing listed

Report Database Printout (details): enclosed not requested nothing listed

Report Digital Database Records: enclosed not requested nothing listed

Resource Record Copies: enclosed not requested nothing listed

Report Copies: enclosed not requested nothing listed

OHP Historic Properties Directory: enclosed not requested nothing listed

Archaeological Determinations of Eligibility: enclosed not requested nothing listed

CA Inventory of Historic Resources (1976): enclosed not requested nothing listed

Caltrans Bridge Survey: Not available at SSJVIC; please see
<http://www.dot.ca.gov/hq/structur/strmaint/historic.htm>

Ethnographic Information: Not available at SSJVIC

Historical Literature: Not available at SSJVIC

Historical Maps: Not available at SSJVIC; please see
<http://historicalmaps.arcgis.com/usgs/>

Local Inventories: Not available at SSJVIC

GLO and/or Rancho Plat Maps: Not available at SSJVIC; please see
<http://www.glorerecords.blm.gov/search/default.aspx#searchTabIndex=0&searchByTypeIndex=1> and/or
<http://www.oac.cdlib.org/view?docId=hb8489p15p;developer=local;style=oac4;doc.view=items>

Shipwreck Inventory: Not available at SSJVIC; please see
<http://www.slc.ca.gov/Info/Shipwrecks.html>

Soil Survey Maps: Not available at SSJVIC; please see
<http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>

Please forward a copy of any resulting reports from this project to the office as soon as possible. Due to the sensitive nature of archaeological site location data, we ask that you do not include resource location maps and resource location descriptions in your report if the report is for public distribution. If you have any questions regarding the results presented herein, please contact the office at the phone number listed above.

The provision of CHRIS Data via this records search response does not in any way constitute public disclosure of records otherwise exempt from disclosure under the California Public Records Act or any other law, including, but not limited to, records related to archeological site information maintained by or on behalf of, or in the possession of, the State of California, Department of Parks and Recreation, State Historic Preservation Officer, Office of Historic Preservation, or the State Historical Resources Commission.

Due to processing delays and other factors, not all of the historical resource reports and resource records that have been submitted to the Office of Historic Preservation are available via this records search. Additional information may be available through the federal, state, and local agencies that produced or paid for historical resource management work in the search area. Additionally, Native American tribes have historical resource information not in the CHRIS Inventory, and you should contact the California Native American Heritage Commission for information on local/regional tribal contacts.

Should you require any additional information for the above referenced project, reference the record search number listed above when making inquiries. Invoices for Information Center services will be sent under separate cover from the California State University, Bakersfield Accounting Office.

Thank you for using the California Historical Resources Information System (CHRIS).

Sincerely,

Celeste M. Thomson
Coordinator

Attachment B. Cultural Resources Survey Form



CULTURAL RESOURCES SURVEY

04/17/2019, 04/24/2019

D130412.01 Task 1: Fresno Recycled Water Distribution Systems: Madison-Whitesbridge Addendum

Mai Lee
Preparer

Mai Lee
Surveyor(s)

Heather Atherton
Supervisor

Survey Date	Location/ Parcel Number	Activities Observed	Resources Encountered	Comments
04/17/2019	ROW from intersection of Cornelia/Madison to 1.7 east	Pedestrian Survey	No cultural resources were encountered.	Area is a paved road. Survey was focused in areas with exposed soil surfaces. Ground visibility is 0%.
04/17/2019	ROW from intersection of Madison/Valentine to intersection of Whitesbridge/Valentine	Pedestrian Survey	No cultural resources were encountered.	Area is a paved road. Survey was focused in areas with exposed soil surfaces. Ground visibility is 0%.
04/17/2019	ROW from intersection of Hughes/ Whitesbridge to 1.1 miles west	Pedestrian Survey	No cultural resources were encountered.	Area is a paved road and road shoulder. Survey was focused in areas with exposed soil surfaces. Ground visibility is 0% in road and 100% in road shoulder.
04/17/2019	ROW from intersection of Belmont/Brawley to 0.33 south	Pedestrian Survey	No cultural resources were encountered.	Area is a paved road. Survey was focused in areas with exposed soil surfaces. Ground visibility is 0%.
04/24/2019	East of 0.33 miles south of intersection of Belmont/Brawley	Pedestrian Survey	No cultural resources were encountered.	Survey area is a mostly paved road at a water retention facility. Overall ground visibility is moderate at 60%.



Image 1: Overview of Madison Avenue from intersection of Madison and Cornelia Avenue, looking east.



Image 2: Overview of Valentine Avenue from intersection of Valentine and Madison Avenue, looking north.



Image 3: Overview of Whitesbridge Avenue from intersection of Whitesbridge and Hughes Avenue, looking west.



Image 4: Overview of Brawley Avenue from intersection of Belmont and Brawley Avenue, looking south.



Image 5: Overview of 0.33 miles east of Brawley Avenue showing east end of water retention facility, looking west.

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APPENDIX B

Biological Resources Technical Memo

memorandum

date May 3, 2019

to Todd Gordon, ESA Project Manager

cc

from Joseph Huang, Biologist

subject Recycled Water Distribution System, Southwest Quadrant Addendum #2 Biological Resources Analysis

This memorandum was prepared to document the background database research and analysis of biological resources for the City of Fresno Department of Utilities Recycled Water Distribution System, Southwest Quadrant Addendum #2, (proposed project). The following materials were prepared to support the analysis: a habitat map, a 250-foot buffer survey area map, and a one-half mile survey area map, followed by an analysis of the proposed project's potential to impact sensitive biological resources.

Methods

Lists of special-status species with potential to occur in the project area region were reviewed. Sources consulted in the preparation of the list of target special-status species include the US Fish and Wildlife Service (USFWS) List of Federal Endangered and Threatened Species (USFWS, 2019), the CNDDDB (CDFW, 2019), and the California Native Plant Society (CNPS) Online Inventory of Rare and Endangered Plants (CNPS, 2019).

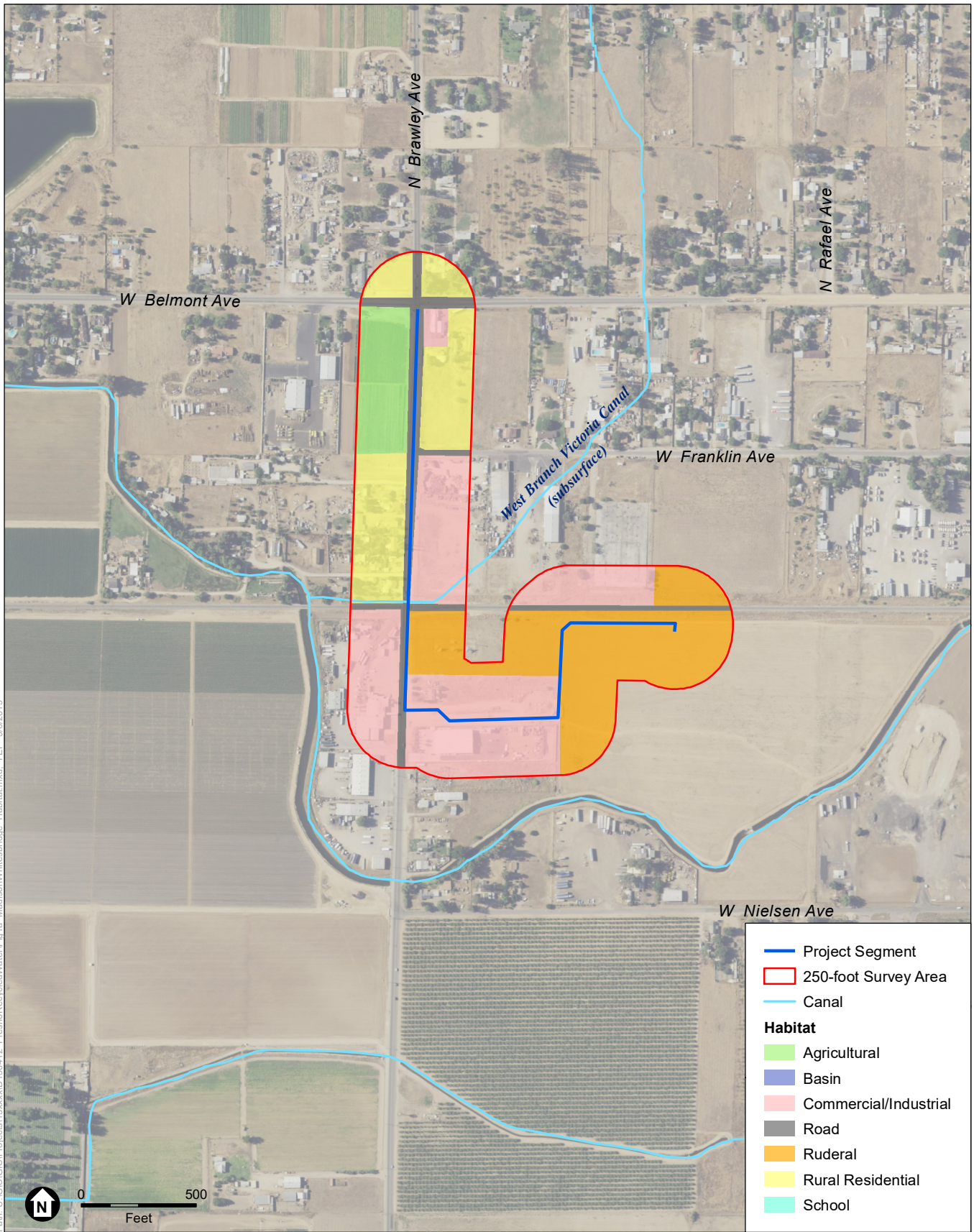
Installation of pipelines along the refined alignment had not been previously surveyed for biological resources. An Environmental Science Associates (ESA) biologist conducted a field reconnaissance survey of the refined alignment on April 18, 2019, which includes new sections of pipeline along West Madison Avenue, West Whitesbridge Avenue, and North Brawley Avenue. The survey identified no additional sensitive biological resources within the refined pipeline alignment.

Conclusions

Based on observations made during the biologist's reconnaissance survey, the refined pipeline alignments mostly follow paved roads in rural residential, agricultural, or commercial and industrial areas. A limited number of ground squirrel (*Otospermophilus beecheyi*) burrows and burrow complexes were observed in a landscaped grass area in front of a commercial building along West Whitesbridge Avenue. These burrows may potentially provide habitat for special-status burrowing animals including western burrowing owl (*Athene cunicularia*) and San Joaquin kit fox (*Vulpes macrotis mutica*). No western burrowing owl or San Joaquin kit fox individuals or signs

of their presence were observed at or around the burrow entrances. The biologist did not observe any burrows or California ground squirrel activity in the ruderal fields adjacent to the refined alignment, and no western burrowing owl or San Joaquin kit fox individuals were observed in those fields. If the species or active dens or burrows are present in the ruderal fields during installation, disturbance associated with these activities could temporarily result in elimination of areas essential for seasonal movement as well as harm to individuals if present during construction activities. Implementation of Master Plan EIR Mitigation Measures 4.5.2, 4.5.4a, and 4.5.4b would reduce potential impacts to burrowing owl and San Joaquin kit fox to a less than significant level by implementing preconstruction surveys, buffer zones around dens, worker education, and other measures as specified therein.

Birds, including raptors, and bats have the potential to nest or roost within the trees along the refined alignment. An active red-tailed hawk (*Buteo jamaicensis*) nest was observed in a eucalyptus tree located approximately 1,200 feet north of the refined alignment along West Madison Avenue. That nest is far enough away that it would not be affected by installation activities associated with the refined pipeline alignments because nesting raptors often require a buffer of only up to a 500-foot radius. However, if passerine birds and raptors which are protected by the Migratory Bird Treaty Act are nesting close to the project's vicinity, installation activities could cause nest abandonment or loss of reproductive potential. Other potential impacts to these species during project installation include the potential for harm to individual birds, if present, and the loss of suitable nesting and foraging habitat. Therefore, installation of pipelines along the refined alignments could have a potentially significant impact on nesting birds. Implementation of Master Plan EIR Mitigation Measure 4.5.2 would be required to reduce impacts to nesting birds to a less than significant level by completing preconstruction surveys, avoiding nesting birds, and establishing buffer zones as warranted; the buffer zone may vary depending on species and site specific conditions as approved by the California Department of Fish and Wildlife. Therefore, the refined project would not result in new significant impacts or a substantial increase in severity of impacts over those identified and evaluated in the Tiered MND and Master Plan EIR.

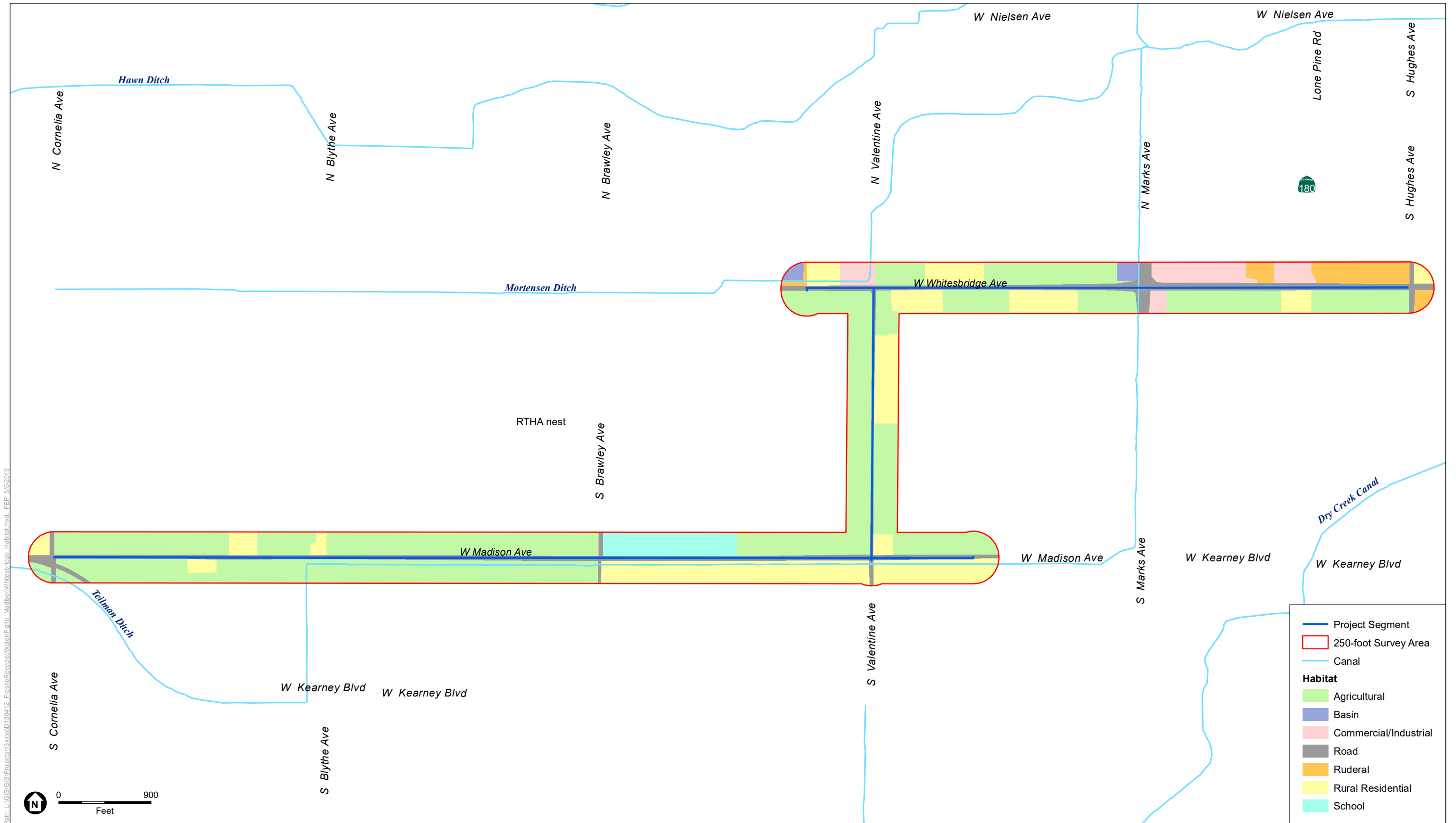


Source: USDA, 2016; ESRI, 2012; Provost & Pritchard, 2019; ESA, 2019

Fresno Recycled Water Distribution System

Figure 1a
Madison-Whitesbridge Segments
Habitat Map



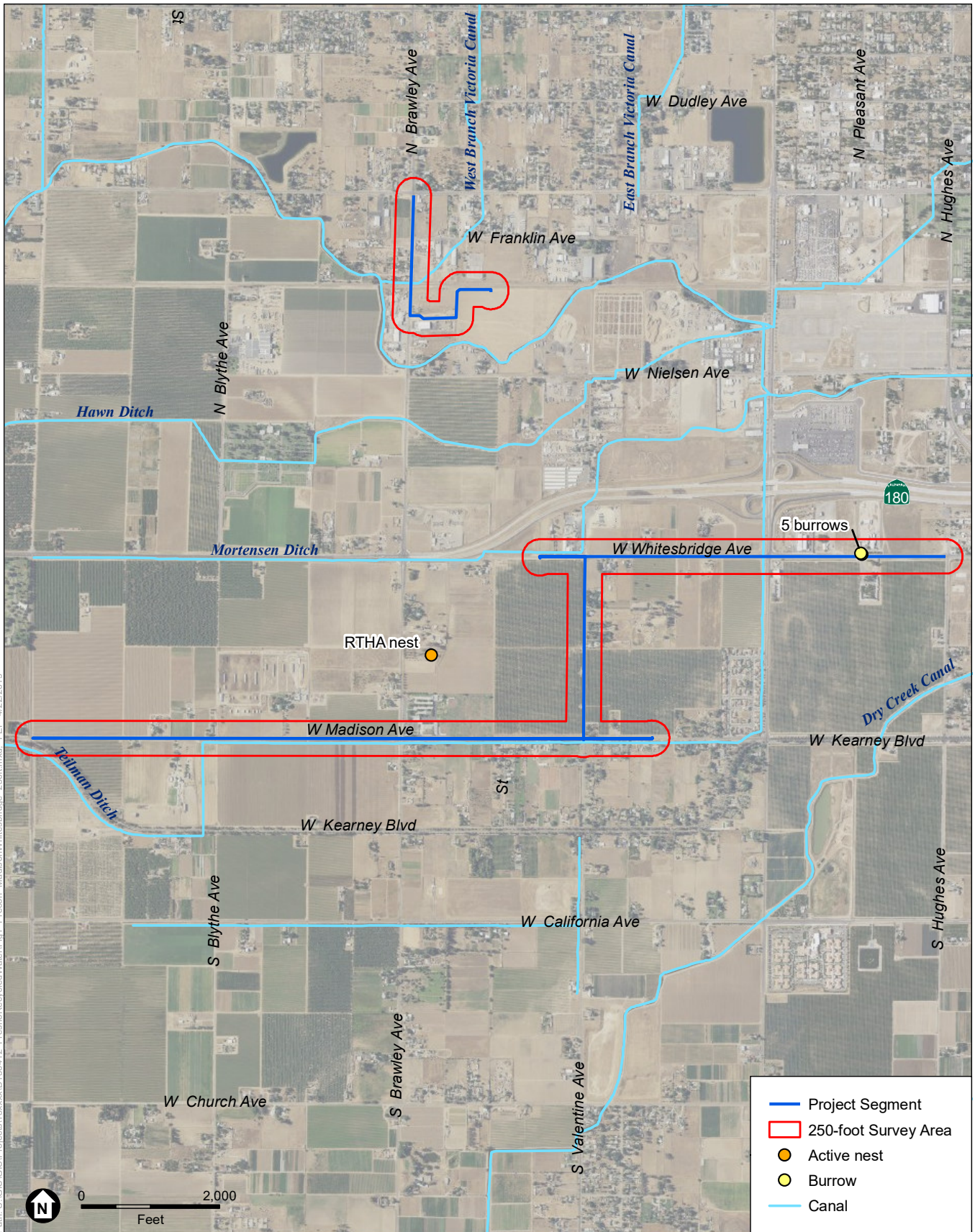


Source: USDA, 2016; ESRI, 2012; Provost & Pritchard, 2019; ESA, 2019

Fresno Recycled Water Distribution System

Figure 1b
Madison-Whitesbridge Segments
Habitat Map



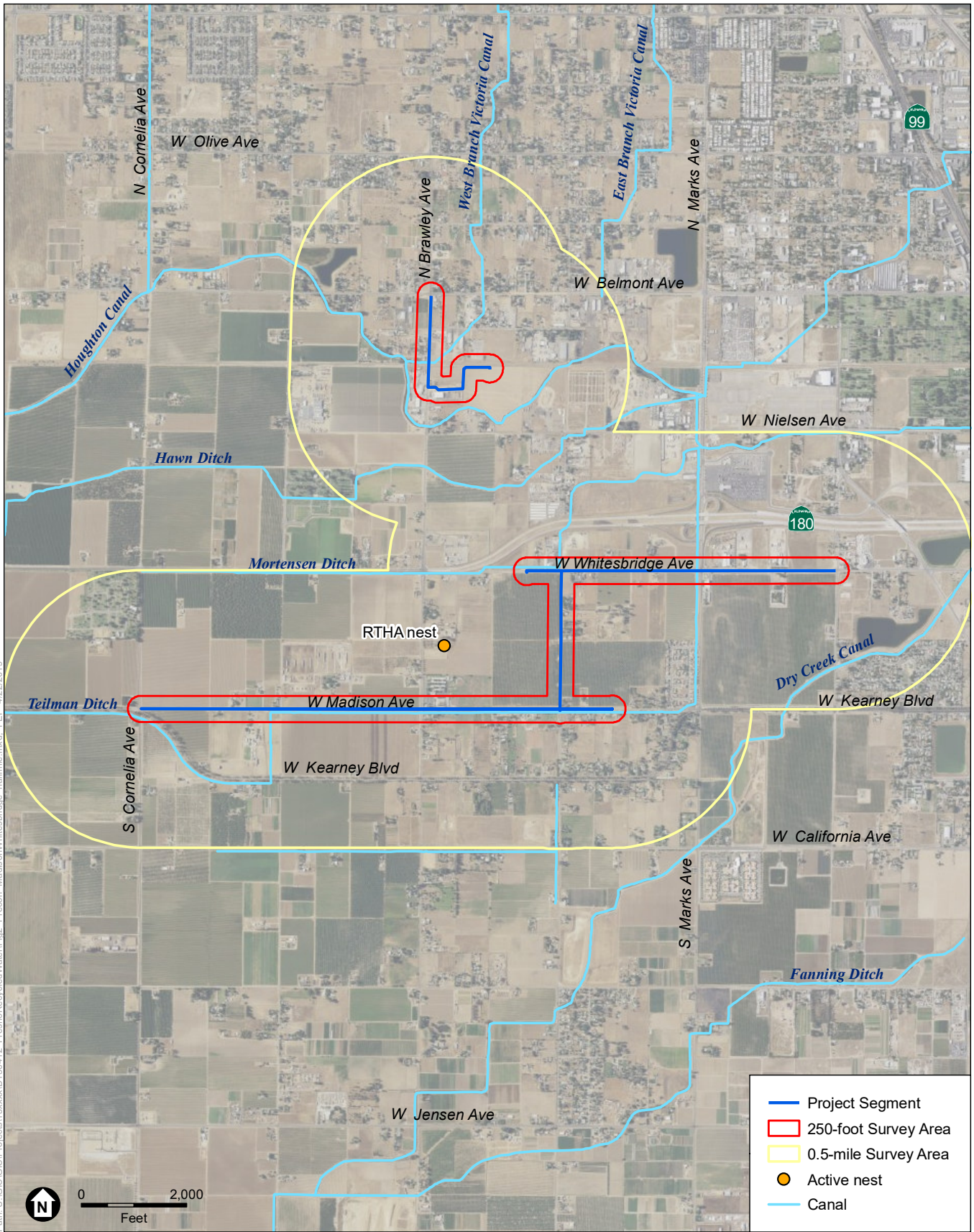


Source: USDA, 2016; ESRI, 2012; Provost & Pritchard, 2019; ESA, 2019

Fresno Recycled Water Distribution System

Figure 2
 Madison-Whitesbridge Segments
 Biological Resources Survey Results





Source: USDA, 2016; ESRI, 2012; Provost & Pritchard, 2019; ESA, 2019

Fresno Recycled Water Distribution System

Figure 3
 Madison-Whitesbridge Segments
 Biological Resources Survey Results



Selected Elements by Scientific Name

California Department of Fish and Wildlife

California Natural Diversity Database



Query Criteria: Quad

Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
Agelaius tricolor tricolored blackbird	ABPBXB0020	None	Candidate Endangered	G2G3	S1S2	SSC
Ambystoma californiense California tiger salamander	AAAAA01180	Threatened	Threatened	G2G3	S2S3	WL
Anniella pulchra northern California legless lizard	ARACC01020	None	None	G3	S3	SSC
Antrozous pallidus pallid bat	AMACC10010	None	None	G5	S3	SSC
Ardea alba great egret	ABNGA04040	None	None	G5	S4	
Arizona elegans occidentalis California glossy snake	ARADB01017	None	None	G5T2	S2	SSC
Athene cunicularia burrowing owl	ABNSB10010	None	None	G4	S3	SSC
Bombus crotchii Crotch bumble bee	IIHYM24480	None	None	G3G4	S1S2	
Buteo swainsoni Swainson's hawk	ABNKC19070	None	Threatened	G5	S3	
Castilleja campestris var. succulenta succulent owl's-clover	PDSCR0D3Z1	Threatened	Endangered	G4?T2T3	S2S3	1B.2
Caulanthus californicus California jewelflower	PDBRA31010	Endangered	Endangered	G1	S1	1B.1
Desmocerus californicus dimorphus valley elderberry longhorn beetle	IICOL48011	Threatened	None	G3T2	S2	
Dipodomys nitratoides exilis Fresno kangaroo rat	AMAFD03151	Endangered	Endangered	G3TH	SH	
Efferia antiochi Antioch efferian robberfly	IIDIP07010	None	None	G1G2	S1S2	
Egretta thula snowy egret	ABNGA06030	None	None	G5	S4	
Eumops perotis californicus western mastiff bat	AMACD02011	None	None	G5T4	S3S4	SSC
Imperata brevifolia California satintail	PMPOA3D020	None	None	G4	S3	2B.1
Lasiurus cinereus hoary bat	AMACC05030	None	None	G5	S4	
Leptosiphon serrulatus Madera leptosiphon	PDPLM09130	None	None	G3	S3	1B.2



Selected Elements by Scientific Name
California Department of Fish and Wildlife
California Natural Diversity Database



Species	Element Code	Federal Status	State Status	Global Rank	State Rank	Rare Plant Rank/CDFW SSC or FP
<i>Lytta molesta</i> molestan blister beetle	IICOL4C030	None	None	G2	S2	
<i>Metapogon hurdi</i> Hurd's metapogon robberfly	IIDIP08010	None	None	G1G2	S1S2	
Northern Claypan Vernal Pool Northern Claypan Vernal Pool	CTT44120CA	None	None	G1	S1.1	
<i>Nycticorax nycticorax</i> black-crowned night heron	ABNGA11010	None	None	G5	S4	
<i>Orcuttia inaequalis</i> San Joaquin Valley Orcutt grass	PMPOA4G060	Threatened	Endangered	G1	S1	1B.1
<i>Orcuttia pilosa</i> hairy Orcutt grass	PMPOA4G040	Endangered	Endangered	G1	S1	1B.1
<i>Perognathus inornatus</i> San Joaquin Pocket Mouse	AMAFD01060	None	None	G2G3	S2S3	
<i>Phrynosoma blainvillii</i> coast horned lizard	ARACF12100	None	None	G3G4	S3S4	SSC
<i>Sagittaria sanfordii</i> Sanford's arrowhead	PMALI040Q0	None	None	G3	S3	1B.2
<i>Spea hammondii</i> western spadefoot	AAABF02020	None	None	G3	S3	SSC
<i>Taxidea taxus</i> American badger	AMAJF04010	None	None	G5	S3	SSC
<i>Tropidocarpum capparideum</i> caper-fruited tropidocarpum	PDBRA2R010	None	None	G1	S1	1B.1
<i>Vulpes macrotis mutica</i> San Joaquin kit fox	AMAJA03041	Endangered	Threatened	G4T2	S2	

Record Count: 32

CALIFORNIA DEPARTMENT OF
FISH and WILDLIFE *RareFind*

Query Summary:

Quad **IS** (Herndon (3611978) **OR** Fresno South (3611967) **OR** Fresno North (3611977) **OR** Kearney Park (3611968))

Print

Close

CNDDB Element Query Results

Scientific Name	Common Name	Taxonomic Group	Element Code	Total Occs	Returned Occs	Federal Status	State Status	Global Rank	State Rank	CA Rare Plant Rank	Other Status	Habitats
Agelaius tricolor	tricolored blackbird	Birds	ABPBXB0020	952	3	None	Candidate Endangered	G2G3	S1S2	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_EN-Endangered, NABCI_RWL-Red Watch List, USFWS_BCC-Birds of Conservation Concern	Freshwater marsh, Marsh & Swamp, Swamp, Wetland
Ambystoma californiense	California tiger salamander	Amphibians	AAAAA01180	1188	2	Threatened	Threatened	G2G3	S2S3	null	CDFW_WL-Watch List, IUCN_VU-Vulnerable	Cismontane woodland, Meadow & seep, Riparian woodland, Valley & foothill grassland, Vernal pool, Wetland
Anniella pulchra	northern California legless lizard	Reptiles	ARACC01020	375	1	None	None	G3	S3	null	CDFW_SSC-Species of Special Concern, USFS_S-Sensitive	Chaparral, Coastal dunes, Coastal scrub
Antrozous pallidus	pallid bat	Mammals	AMACC10010	416	1	None	None	G5	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFS_S-Sensitive, WBWG_H-High Priority	Chaparral, Coastal scrub, Desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Riparian woodland, Sonoran desert scrub, Upper montane coniferous forest, Valley & foothill grassland

Ardea alba	great egret	Birds	ABNGA04040	43	1	None	None	G5	S4	null	CDF_S-Sensitive, IUCN_LC-Least Concern	Brackish marsh, Estuary, Freshwater marsh, Marsh & Swamp, Riparian forest, Wetland
Arizona elegans occidentalis	California glossy snake	Reptiles	ARADB01017	260	1	None	None	G5T2	S2	null	CDFW_SSC-Species of Special Concern	null
Athene cunicularia	burrowing owl	Birds	ABNSB10010	1984	2	None	None	G4	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Coastal prairie, Coastal scrub, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, Sonoran desert scrub, Valley & foothill grassland
Bombus crotchii	Crotch bumble bee	Insects	IIHYM24480	234	1	None	None	G3G4	S1S2	null	null	null
Buteo swainsoni	Swainson's hawk	Birds	ABNKC19070	2473	2	None	Threatened	G5	S3	null	BLM_S-Sensitive, IUCN_LC-Least Concern, USFWS_BCC-Birds of Conservation Concern	Great Basin grassland, Riparian forest, Riparian woodland, Valley & foothill grassland
Castilleja campestris var. succulenta	succulent owl's-clover	Dicots	PDSCR0D3Z1	95	1	Threatened	Endangered	G4?T2T3	S2S3	1B.2	null	Vernal pool, Wetland
Caulanthus californicus	California jewelflower	Dicots	PDBRA31010	63	1	Endangered	Endangered	G1	S1	1B.1	null	Chenopod scrub, Pinon & juniper woodlands, Valley & foothill grassland
Desmocerus californicus dimorphus	valley elderberry longhorn beetle	Insects	IICOL48011	271	1	Threatened	None	G3T2	S2	null	null	Riparian scrub
Dipodomys nitratoides exilis	Fresno kangaroo rat	Mammals	AMAFD03151	12	2	Endangered	Endangered	G3TH	SH	null	IUCN_VU-Vulnerable	Chenopod scrub
Efferia antiochi	Antioch efferian robberfly	Insects	IIDIP07010	4	2	None	None	G1G2	S1S2	null	null	Interior dunes
Egretta thula	snowy egret	Birds	ABNGA06030	20	1	None	None	G5	S4	null	IUCN_LC-Least Concern	Marsh & swamp, Meadow & seep, Riparian forest, Riparian woodland, Wetland

Eumops perotis californicus	western mastiff bat	Mammals	AMACD02011	296	4	None	None	G5T4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, WBWG_H-High Priority	Chaparral, Cismontane woodland, Coastal scrub, Valley & foothill grassland
Imperata brevifolia	California satintail	Monocots	PMPOA3D020	32	1	None	None	G4	S3	2B.1	SB_SBBG-Santa Barbara Botanic Garden, USFS_S-Sensitive	Chaparral, Coastal scrub, Meadow & seep, Mojavean desert scrub, Riparian scrub, Wetland
Lasiurus cinereus	hoary bat	Mammals	AMACC05030	238	1	None	None	G5	S4	null	IUCN_LC-Least Concern, WBWG_M-Medium Priority	Broadleaved upland forest, Cismontane woodland, Lower montane coniferous forest, North coast coniferous forest
Leptosiphon serrulatus	Madera leptosiphon	Dicots	PDPLM09130	27	1	None	None	G3	S3	1B.2	USFS_S-Sensitive	Cismontane woodland, Lower montane coniferous forest
Lytta molesta	molestan blister beetle	Insects	ILCOL4C030	17	2	None	None	G2	S2	null	null	Vernal pool, Wetland
Metapogon hurdi	Hurd's metapogon robberfly	Insects	IIDIP08010	3	1	None	None	G1G2	S1S2	null	null	Interior dunes
Northern Claypan Vernal Pool	Northern Claypan Vernal Pool	Herbaceous	CTT44120CA	21	1	None	None	G1	S1.1	null	null	Vernal pool, Wetland
Nycticorax nycticorax	black-crowned night heron	Birds	ABNGA11010	37	1	None	None	G5	S4	null	IUCN_LC-Least Concern	Marsh & swamp, Riparian forest, Riparian woodland, Wetland
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Monocots	PMPOA4G060	47	1	Threatened	Endangered	G1	S1	1B.1	null	Vernal pool, Wetland
Orcuttia pilosa	hairy Orcutt grass	Monocots	PMPOA4G040	35	1	Endangered	Endangered	G1	S1	1B.1	null	Vernal pool, Wetland
Perognathus inornatus	San Joaquin Pocket Mouse	Mammals	AMAFD01060	126	3	None	None	G2G3	S2S3	null	BLM_S-Sensitive, IUCN_LC-Least Concern	Cismontane woodland, Mojavean desert scrub, Valley & foothill grassland
Phrynosoma blainvillii	coast horned lizard	Reptiles	ARACF12100	775	1	None	None	G3G4	S3S4	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Chaparral, Cismontane woodland, Coastal bluff scrub, Coastal scrub, Desert wash, Pinon

												& juniper woodlands, Riparian scrub, Riparian woodland, Valley & foothill grassland
Sagittaria sanfordii	Sanford's arrowhead	Monocots	PMALI040Q0	126	4	None	None	G3	S3	1B.2	BLM_S-Sensitive	Marsh & swamp, Wetland
Spea hammondii	western spadefoot	Amphibians	AAABF02020	818	1	None	None	G3	S3	null	BLM_S-Sensitive, CDFW_SSC-Species of Special Concern, IUCN_NT-Near Threatened	Cismontane woodland, Coastal scrub, Valley & foothill grassland, Vernal pool, Wetland
Taxidea taxus	American badger	Mammals	AMAJF04010	588	1	None	None	G5	S3	null	CDFW_SSC-Species of Special Concern, IUCN_LC-Least Concern	Alkali marsh, Alkali playa, Alpine, Alpine dwarf scrub, Bog & fen, Brackish marsh, Broadleaved upland forest, Chaparral, Chenopod scrub, Cismontane woodland, Closed-cone coniferous forest, Coastal bluff scrub, Coastal dunes, Coastal prairie, Coastal scrub, Desert dunes, Desert wash, Freshwater marsh, Great Basin grassland, Great Basin scrub, Interior dunes, lone formation, Joshua tree woodland, Limestone, Lower montane coniferous forest, Marsh & swamp, Meadow & seep, Mojavean desert scrub, Montane

												dwarf scrub, North coast coniferous forest, Oldgrowth, Pavement plain, Redwood, Riparian forest, Riparian scrub, Riparian woodland, Salt marsh, Sonoran desert scrub, Sonoran thorn woodland, Ultramafic, Upper montane coniferous forest, Upper Sonoran scrub, Valley & foothill grassland
<i>Tropidocarpum capparideum</i>	caper-fruited trepidocarpum	Dicots	PDBRA2R010	18	1	None	None	G1	S1	1B.1	SB_RSABG- Rancho Santa Ana Botanic Garden, USFS_S- Sensitive	Valley & foothill grassland
<i>Vulpes macrotis mutica</i>	San Joaquin kit fox	Mammals	AMAJA03041	1017	1	Endangered	Threatened	G4T2	S2	null	null	Chenopod scrub, Valley & foothill grassland

Plant List

Inventory of Rare and Endangered Plants

13 matches found. *Click on scientific name for details*

Search Criteria

Found in Quads 3611978, 3611977, 3611976, 3611968, 3611967, 3611966, 3611958 3611957 and 3611956;

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Scientific Name	Common Name	Family	Lifeform	Blooming Period	CA Rare Plant Rank	State Rank	Global Rank
Atriplex minuscula	lesser saltscale	Chenopodiaceae	annual herb	May-Oct	1B.1	S2	G2
Castilleja campestris var. succulenta	succulent owl's-clover	Orobanchaceae	annual herb (hemiparasitic)	(Mar)Apr-May	1B.2	S2S3	G4?T2T3
Caulanthus californicus	California jewelflower	Brassicaceae	annual herb	Feb-May	1B.1	S1	G1
Eriastrum hooveri	Hoover's eriastrum	Polemoniaceae	annual herb	(Feb)Mar-Jul	4.2	S3	G3
Eriogonum nortonii	Pinnacles buckwheat	Polygonaceae	annual herb	(Apr)May-Aug(Sep)	1B.3	S2	G2
Imperata brevifolia	California satintail	Poaceae	perennial rhizomatous herb	Sep-May	2B.1	S3	G4
Leptosiphon serrulatus	Madera leptosiphon	Polemoniaceae	annual herb	Apr-May	1B.2	S3	G3
Mielichhoferia shevockii	Shevock's copper moss	Mielichhoferiaceae	moss		1B.2	S2	G2
Orcuttia inaequalis	San Joaquin Valley Orcutt grass	Poaceae	annual herb	Apr-Sep	1B.1	S1	G1
Orcuttia pilosa	hairy Orcutt grass	Poaceae	annual herb	May-Sep	1B.1	S1	G1
Sagittaria sanfordii	Sanford's arrowhead	Alismataceae	perennial rhizomatous herb (emergent)	May-Oct(Nov)	1B.2	S3	G3
Tropidocarpum capparideum	caper-fruited tropidocarpum	Brassicaceae	annual herb	Mar-Apr	1B.1	S1	G1
Tuctoria greenei	Greene's tuctoria	Poaceae	annual herb	May-Jul(Sep)	1B.1	S1	G1

Suggested Citation

California Native Plant Society, Rare Plant Program. 2019. Inventory of Rare and Endangered Plants of California (online edition, v8-03 0.39). Website <http://www.rareplants.cnps.org> [accessed 10 April 2019].

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Questions and Comments

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United States Department of the Interior



FISH AND WILDLIFE SERVICE
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2800 Cottage Way, Room W-2605
Sacramento, CA 95825-1846
Phone: (916) 414-6600 Fax: (916) 414-6713

In Reply Refer To:

April 10, 2019

Consultation Code: 08ESMF00-2019-SLI-1633

Event Code: 08ESMF00-2019-E-05190

Project Name: Fresno Recycled Water Distribution System, Southwest Quadrant, Madison-Whitesbridge Segment

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 enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, under the jurisdiction of the U.S. Fish and Wildlife Service (Service) 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 Service under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*).

Please follow the link below to see if your proposed project has the potential to affect other species or their habitats under the jurisdiction of the National Marine Fisheries Service:

http://www.nwr.noaa.gov/protected_species/species_list/species_lists.html

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, 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 Act, 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 enclosed list.

The purpose of the Act 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 Act 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 (or other undertakings having similar physical impacts) 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. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal 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>

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 wind energy guidelines (<http://www.fws.gov/windenergy/>) for minimizing impacts to migratory birds and bats.

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

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. 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.

Attachment(s):

- Official Species List

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:

Sacramento Fish And Wildlife Office

Federal Building

2800 Cottage Way, Room W-2605

Sacramento, CA 95825-1846

(916) 414-6600

Project Summary

Consultation Code: 08ESMF00-2019-SLI-1633

Event Code: 08ESMF00-2019-E-05190

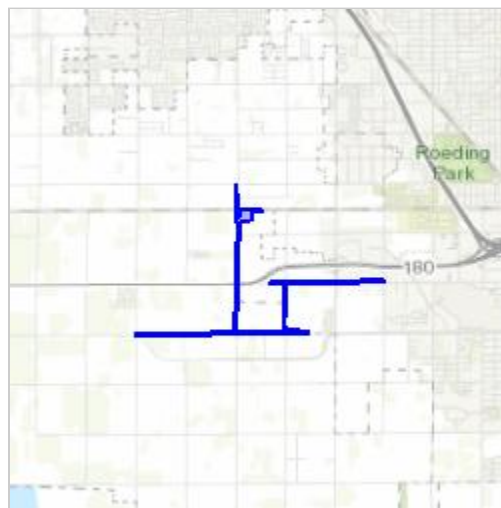
Project Name: Fresno Recycled Water Distribution System, Southwest Quadrant, Madison-Whitesbridge Segment

Project Type: WATER SUPPLY / DELIVERY

Project Description: The City proposed to install recycled water distribution pipelines and construct a pump station in the City of Fresno's Southwest Quadrant. The proposed distribution pipelines would convey tertiary treated recycled water from the Regional Water Reclamation Facility for urban reuse, groundwater recharge, and agricultural reuse as proposed as part of the City's Recycled Water Master Plan. This segment of the project includes pipelines along N Brawley Ave, W Madison Ave, S Valentine Ave, and W Whitesbridge Ave. The project will begin sometime from 2019 to 2020.

Project Location:

Approximate location of the project can be viewed in Google Maps: <https://www.google.com/maps/place/36.738985196038584N119.86224886002677W>



Counties: Fresno, CA

Endangered Species Act Species

There is a total of 10 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
Fresno Kangaroo Rat <i>Dipodomys nitratooides exilis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5150 Species survey guidelines: https://ecos.fws.gov/ipac/guideline/survey/population/37/office/11420.pdf	Endangered
San Joaquin Kit Fox <i>Vulpes macrotis mutica</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/2873	Endangered

Reptiles

NAME	STATUS
Blunt-nosed Leopard Lizard <i>Gambelia silus</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/625	Endangered
Giant Garter Snake <i>Thamnophis gigas</i> No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/4482	Threatened

Amphibians

NAME	STATUS
California Red-legged Frog <i>Rana draytonii</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2891	Threatened
California Tiger Salamander <i>Ambystoma californiense</i> Population: U.S.A. (Central CA DPS) There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/2076	Threatened

Fishes

NAME	STATUS
Delta Smelt <i>Hypomesus transpacificus</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/321	Threatened

Crustaceans

NAME	STATUS
Vernal Pool Fairy Shrimp <i>Branchinecta lynchi</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/498	Threatened

Flowering Plants

NAME	STATUS
Fleshy Owl's-clover <i>Castilleja campestris ssp. succulenta</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/8095	Threatened
San Joaquin Orcutt Grass <i>Orcuttia inaequalis</i> There is final critical habitat for this species. Your location is outside the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5506	Threatened

Critical habitats

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

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