City of Prineville, Oregon

RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT

2011
CITY OF PRINEVILLE, OREGON
WASTEWATER SYSTEM IMPROVEMENTS PROJECT
ENVIRONMENTAL REPORT

NAME OF APPLICANT: City of Prineville, Oregon
ADDRESS: 387 NE Third Street
Prineville, Oregon 97754
TITLE OF PROJECT: City of Prineville
Wastewater System Improvements
LOCATION: City of Prineville, Crook County, Oregon
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Section 1.0
Purpose and Need for the Project

1.0 Purpose and Need for the Project

The City of Prineville (City) completed a Wastewater Facilities Plan (WWFP) in 2000, a Wastewater Master Plan Update in 2005, and a WWFP Update in 2010. The WWFP and subsequent updates include analysis of the existing system and historical wastewater data, development of design criteria, evaluation of system deficiencies and needs, evaluation of improvement alternatives, and development of a financial plan and project implementation plan to complete the recommended improvements.

The original wastewater treatment facility began operation in 1960. The existing wastewater treatment plant (WWTP) consists of a partially aerated facultative lagoon system. A portion of the treated effluent is discharged to the Crooked River with the remainder stored in effluent storage ponds and disposed of by irrigation reuse on a City-owned golf course and City-owned pasture lands. The WWTF was upgraded in 1993 and 2005 to bring the total flow capacity of the plant to 1.67 million gallons per day (MGD). The 2005 WWFP recognized that the City was growing at a faster rate than previously forecasted and the treatment plant would reach its capacity by 2013.

The WWFP identified the potential for the City to outgrow the wastewater system facility capacity due to higher than anticipated growth. The WWFP also outlined the need for collection system improvements to help reduce infiltration and inflow. Treatment and disposal improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Effluent is currently discharged to the Crooked River, when allowed, and is also applied at agronomic rates to a City-owned golf course and a crop field via irrigation. Improvements will allow the City to expand the wastewater treatment and disposal system capacity to meet 20-year growth requirements and will eliminate the need to discharge treated wastewater into the Crooked River.

1.1 Project Description (Proposed Action)

The proposed project will construct a wetland disposal system as well as complete as many collection system improvements as funding will allow. The wetland disposal system will be located northwest of the City of Prineville in Crook County, Oregon, as shown on Figure 1-1, Location and Vicinity Maps. An aerial photograph of the wetland disposal area is shown on Figure 1-2, Disposal Wetlands Location. The location of the proposed collection system improvements are shown on Figure 1-3, Collection System Improvements. The disposal wetlands portion of the project is located in Township 14 South, Range 15 East, Sections 26 and 35.
1.1.1 Proposed Wastewater Collection System Improvements

Several areas in the collection system were considered problem areas at 2005 maximum daily flow rates. Improvements to the City's wastewater collection system are proposed for several areas, as generally shown on Figure 1-3. The identified collection system improvements are proposed in areas needing improved service and areas needing new service to eliminate existing septic systems. These are described hereafter, starting in the north central area of the City and moving clockwise as shown on Figure 1-3.

a. **Main Street Main Line** - This sewer main line will be installed on Main Street from 13th Street to Rawhide Lane.

b. **Railroad Grade Main Line** - This sewer main line will be installed on the railroad grade from Alabama Way to 2nd Street.

c. **Combs Flat Road/Paulina Highway Main Line** - This sewer main line will be installed on Combs Flat Road starting at Leslie Lane extending south then southeast on the Paulina Highway to the City limits line.

d. **Melrose Drive and Lincoln Road Main Line Extensions** - These sewer main lines will extend into areas in the southeast portion of the City to provide service to new areas.

e. **Lynn Boulevard Main Line** - This main line will extend along Lynn Boulevard from Combs Flat Road west to Alabama Way.

f. **Crooked River Highway Main Line Extension** - This main line will extend south on the Crooked River Highway from Lynn Boulevard to the south City limits.

g. **Rimrock Road/Crestview Road Main Line Extension** - This main line will extend on Rimrock and Crestview Roads from the west side of the Crooked River northwest to the existing wastewater lagoon area.

h. **Locust/Harwood Street Main Line** - This main line will extend south on Harwood Street to 10th Street then west to Locust Street and south to 9th Street.

i. **Gardner Road/Highway 26 Main Line** - This main line will extend southeast on the railroad grade from Ritches Lane to Gardner Road, extending on Gardner Road to Highway 26, then southeast on Highway 26 to Studebaker Drive.
j. **Ritches Lane Main Lines** - Two main lines will be installed to extend service to existing areas in the northern portion of the City. These main lines will extend roughly southwest to Ritches Lane connecting to the improvement outlined in item “i” above.

With the exception of the Ritches Lane main lines and a small segment of the Railroad Grade main line, the majority of the proposed collection system improvements will be installed on existing rights-of-way adjacent to existing roads and gravel shoulders. Where creek crossings occur, it is anticipated these sewer main lines can be bored or installed on existing bridges to eliminate the need for in-stream work. Installation of all sewer main lines will be permitted as required by the appropriate regulatory agency.

1.1.2 **Wastewater Treatment System Improvements**

The following improvements are proposed for the existing wastewater treatment system:

- Existing pump station improvements
- Existing lagoon aeration system improvements

These improvements will be completed on existing facilities in previously disturbed areas. The existing system improvements will help ensure the pump station continues to operate as needed for the 20-year design life and will help improve the treatment capacity and efficiency of the City's existing lagoon system.

1.1.3 **Wastewater Disposal System Improvements**

Improvements to the City of Prineville's wastewater disposal system will occur northwest of the City in the area shown on Figures 1-1 and 1-2. The City will convert the existing irrigation reuse site to constructed wetlands for the disposal of treated effluent. This will allow the storage and effluent disposal characteristics of wetlands to be utilized to increase the disposal capacity of the treatment plant. The wetland disposal improvements will also eliminate the need to discharge treated wastewater to the Crooked River, which is anticipated to help improve water quality within the Crooked River watershed.

Using the 20-year (year 2030) projected population and the associated wastewater flows, it has been determined that the total land needed for constructed wetlands is approximately 230 to 240 acres, with the City-owned golf course continuing to utilize treated wastewater for irrigation during the full irrigation season. The estimated wetland size takes into account the need for dikes, buffer zones, access and service roads, and other related structures. This design eliminates the need for additional storage of treated effluent or any need to discharge treated effluent.
directly to the Crooked River. The wetlands would be constructed with the treated effluent first passing through a lined treatment wetland of the proper size and then into one of several unlined wetlands varying in size from 15 to 30 acres.
FIGURE C

CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT

DISPOSAL WETLANDS LOCATION

WETLANDS PROJECT LOCATION

EXISTING IRRIGATION PIVOTS

EXISTING IRRIGATION STORAGE POND

To U.S. Hwy. 97

To Madras

Crooked

U.S. HIGHWAY 26

OREGON HIGHWAY 370

River

Crooked

To Madras

U.S. HIGHWAY 97

Prineville

T. 14 S., R. 15 E., W.M.
1" = 1000'

Job# 1260-06-223  Sep. 14, 2010  lbauer
FIGURE 1-3

CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT

COLLECTION SYSTEM IMPROVEMENTS

WETLANDS PROJECT LOCATION

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
Section 2.0
Alternatives to the Proposed Action

2.0 Alternatives to the Proposed Action

The 2010 WWFP Update discussed wastewater system improvement options based on the wastewater system deficiencies, the disposal requirements of the wastewater system, the estimated population and average annual wastewater flow and composition, and the storage and disposal requirements for the current population as well as projected populations.

Requirements for storage lagoon size were determined for each of the disposal options, with consideration also given to an aerated lagoon treatment system where applicable. Cost estimates were determined for each of the options, and the advantages and disadvantages of each option were considered. Using the current population and associated wastewater flows, a water balance was developed for current conditions as a means for analyzing the various options. Also included was an evaluation of the feasibility for extending sewer service to key expansion areas of the City of Prineville.

2.1. Collection System Improvements

2.1.1. Option 1 - No Action Alternative

The no action alternative leaves approximately 944 existing homes without sewer service (see Figure 2-1). Moreover, there are areas within the Urban Growth Boundary (UGB) that are currently undeveloped and would require the installation of septic systems in order to build.

2.2. Wastewater Treatment System Improvements

2.2.1. Option 1 - No Action Alternative

The current wastewater treatment plant is operating within treatment limits, but is anticipated to exceed regulatory limits during the 20-year planning period of the 2010 WWFP Update. If nothing is done to improve the system, the treatment plant could discharge treated wastewater that does not comply with environmental laws. The City would be subject to continual fines until modifications, as mandated by law, are made. This alternative does not address the City's 20-year wastewater treatment and disposal design criteria needs.
2.3. Wastewater Disposal Alternatives

2.3.1. Option 1 - No Action Alternative

This option was not considered a feasible alternative for treated wastewater effluent disposal for long-term planning. The current disposal method of winter storage combined with direct discharge to the Crooked River and summer irrigation is adequate for current wastewater flows but would soon be inadequate as the population grows. Considering Prineville’s rapidly growing population and the need to extend sewer service to approximately 944 homes that are not currently connected to the sewer system, the City would soon be producing more wastewater effluent than could be disposed of with the current system. The City is already discharging to the Crooked River the maximum amount that the Department of Environmental Quality (DEQ) permit will allow and irrigating the available property. By doing nothing, the City would face, in the near future, non-compliance with the DEQ and would be required to find alternate methods for disposal of its treated effluent.

Increasing the amount of discharge to the river would require effluent of better quality, which would require further treatment than is currently available. Increasing the amount of irrigation could possibly be accomplished by acquiring additional property. Both of these options we’re considered.

2.3.2. Option 2a - Irrigation Plus Direct Discharge to the Crooked River (Current Method)

The current method of disposal of the treated wastewater effluent is irrigation of the City-owned golf course and pasture land combined with direct discharge of treated effluent to the Crooked River in the wintertime. Effluent is treated in a facultative lagoon system and then stored in one of two irrigation storage ponds or dechlorinated and discharged into the Crooked River. Effluent can be discharged into the river only during November through April of each year, as long as river flows exceed 5 cubic feet per second (cfs) and effluent quality meets permit limits. The permit limits the total amount of carbonaceous biochemical oxygen demand (CBOD) and total suspended solids (TSS), among other things, that can be discharged to the river. The current levels of CBOD and TSS in the effluent limits this discharge to approximately 1.0 MGD of treated effluent during the period discharge is allowed. The effluent stored in the storage ponds is used to irrigate 123 acres of the City's municipal golf course and approximately 280 acres of City-owned property used as pasture during the typical irrigation season.

Based on the 2005 Wastewater Master Plan Update, the current system's irrigation storage and application are adequate for design flows up to 1.60 MGD. The current average annual wastewater flow is 1.023 MGD, based on a review of Daily Monitoring Report (DMR) data from January 2003 to
July 2008. Using the 20-year (year 2030) projected population for the City of Prineville of 21,356, average annual wastewater flow would be expected to increase to approximately 2.31 MGD, assuming the calculated average flow of 108 gallons per capita per day (gpcd) remains the same. As can be seen, the projected wastewater flow greatly exceeds the current wastewater treatment and disposal facility capacity.

A water balance was developed using the projected average annual wastewater flow to determine the area needed for disposal of the treated effluent. By continuing to use the current method of irrigation combined with direct discharge to the Crooked River, the City would need to acquire additional land for disposal of the treated effluent from the projected population. The City would continue to irrigate the 123 acres of municipal golf course and would need approximately 440 total acres of irrigated pasture to dispose of the balance of the treated effluent for the 2030 population. Since the City already owns 280 acres, this equates to an additional 160 acres that would need to be purchased or leased by the City for irrigation.

The previous update to the WWFP planned for the City to lease the additional land they would need for irrigation. The City would lease property from local adjacent property owners with the understanding that the treated effluent would be used for irrigation and in compliance with all applicable laws and regulations.

Leasing property rather than purchasing it could create several challenges. By leasing, the City risks not being able to find enough landowners within an economically viable area who are willing to irrigate with treated effluent and comply with the associated regulatory requirements. In addition, the areas to be irrigated could change from year to year. If this were to happen, the City could face additional costs associated with piping or transporting the treated effluent to areas where it could be disposed of by irrigation. The logistics of planning for the future, finding willing landowners, and dealing with each one of them could present a problem that the wastewater facility personnel are not desirous or prepared to manage. The best option as far as longevity for additional land for disposal of treated effluent is purchasing rather than leasing as it would be a permanent solution, keeping the City in full control of the facilities.

In addition, the City would need to have a total lagoon storage volume of 250 million gallons (MG), which is more than currently exists. For storage of the additional effluent, a lagoon with a depth of 10 feet and having a surface area of approximately 40 acres would be necessary. Additional costs would be incurred in the construction of the required storage lagoon.
2.3.3. Option 2b - Irrigation with No Discharge to the Crooked River

Option 2b is similar to the current method of treatment and disposal (Option 2a), with the one difference being that no discharge of treated wastewater would be allowed to the Crooked River. This could be the case if the City’s National Pollutant Discharge Elimination System (NPDES) Permit was revoked or reevaluated such that no outfall was permitted. This could occur as a result of the attempt to reintroduce anadromous fish back into the Crooked River or to protect any of the native fish species in the river that have been listed as threatened or endangered. For example, the native bull trout is listed as a threatened species under the Endangered Species Act (ESA) and conservation efforts have been underway to protect its habitat and recover the species. In this option, effluent would be treated in a lagoon system and then stored in irrigation storage ponds until the irrigation season. No direct discharge of treated effluent to the Crooked River would take place. A percentage of the treated effluent would be used to irrigate the 123 acres of the City’s municipal golf course, as is currently done.

Using the same 20-year (year 2030) projected population for the City of Prineville of 21,356 with an average annual wastewater flow of 2.31 MGD, a water balance was developed to determine the area needed for disposal of the treated effluent. The City would need 600 acres of irrigated pasture in addition to the golf course for disposal of the treated effluent, plus a lagoon storage volume of 400 MG. The required additional lagoon would need to be 95 surface acres with a depth of 10 feet. This means the City would need to purchase approximately an additional 420 acres for disposal of the treated effluent if no outfall to the Crooked River was allowed.

2.3.4. Option 3a - Mechanical Treatment Plant with Irrigation and River Discharge

The 2005 Wastewater Master Plan Update included several options for disposal of the City’s treated effluent, four of the five options being the construction of a mechanical treatment plant. The 2010 WWFP Update also includes an option for construction of a mechanical treatment plant. Construction of such a plant would reduce the CBOD and TSS loadings of the wastewater effluent to about 10 milligrams per liter (mg/L) each. When compared to the loadings of the treated effluent from the lagoon system of about 25 mg/L each, the mechanical treatment plant would produce effluent of much better quality. Producing better quality effluent would allow a greater volume of discharge into the Crooked River during the wintertime while still meeting the City’s NPDES Permit limits, which in turn reduces the amount of effluent that must be disposed of by irrigation. Since the effluent is of better quality, it would also have fewer restrictions placed on its reuse. Storage lagoons would still have to be constructed for storage of the treated effluent in the summertime, as the current NPDES
Permit allows the discharge of effluent to the river only in the wintertime, from November to April.

2.3.5. Option 3b - Mechanical Treatment Plant with Irrigation and No River Discharge

Option 3b also involves the construction of a mechanical treatment plant, the difference from Option 3a being that the treated effluent would be reused entirely for irrigation with no direct river discharge. Since the same volume of treated effluent would be produced, the amount of irrigated property and wintertime storage for this option is the same as that for Option 2b. The one difference might be a less stringent level of restrictions placed on reuse of the treated effluent due to the higher quality produced by the mechanical treatment plant, in turn making irrigation slightly easier and less costly.

2.4 Conclusions

This section of the Environmental Report has outlined alternatives considered for the City of Prineville’s proposed wastewater system improvements as discussed in detail in the City’s 2010 WWFP Update. Alternatives were considered for the collection, treatment, and disposal systems. The alternatives outlined in this section were not selected primarily because they are less environmentally sound and more cost prohibitive than the preferred alternative.
~944 existing homes that could be served
3.0 Affected Environment/Environmental Consequences

This section describes and documents the environmental resources that must be considered for effects by the proposed project and each alternative considered. Each subsection will present the affected environment, discuss the environmental consequences of the project on resources, and establish and discuss any mitigation measures necessary to avoid or minimize adverse impacts to the identified environmental resource. Correspondence with appropriate agencies is located in Section 5.0 of this report.
3.1 Land Use/Important Farmland/Formally Classified Lands

The City of Prineville is located in northwestern Crook County in central Oregon. The Population Research Center at Portland State University approximated the population of Prineville at 10,370 in 2009. The majority of land in the vicinity is privately owned and is either residential or used for livestock grazing or irrigated crop farming. Located at an elevation of 2,877 feet above Mean Sea Level, the Prineville area is situated in the high desert area east of the Cascade Mountains and west of the Ochoco National Forest. The City occupies a 6.65 square mile area (U.S. Census Bureau, 2010a). The main access to Prineville is via the Madras Highway (OR 26) or the Ochoco Highway (OR 126).

3.1.1 Affected Environment

The proposed collection system is located within the UGB or within the City limits of Prineville (see Figure 3-1A). Where possible, collection system improvements will be installed on existing rights-of-way adjacent to existing roads and gravel shoulders. Where creek crossings occur, it is anticipated sewer main lines can be bored or installed on existing bridges, eliminating the need for in-stream work.

The proposed constructed wetland area is located outside the UGB in an area zoned Exclusive Farm Use (EFU) (Crook County, 2003) (see Figure 3-1B).

Land Use

The City of Prineville adopted an updated Comprehensive Plan in April of 2007 (City of Prineville, 2007). The City's Comprehensive Plan identified the proposed collection system as within the UGB. The treatment and storage sites are outside of the City's UGB and are identified in the Crook County Comprehensive Plan (Crook County, 2003) as EFU (Zone F2).

Important Farmland

The soils in the Prineville area are generally considered good for farming and agriculture (see Figures 3-2A and 3-2B).
Farmland Classification, Summary by Map Unit, Crook County, Oregon

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<th>Map Unit Symbol</th>
<th>Map Unit Name</th>
<th>Rating</th>
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<tr>
<td>014</td>
<td>Powder silt loam, 0-2 percent slopes</td>
<td>Prime Farmland if Irrigated</td>
</tr>
<tr>
<td>016</td>
<td>Crooked-Stearns complex, 0-2 percent slopes</td>
<td>Farmland of Statewide Importance</td>
</tr>
<tr>
<td>020</td>
<td>Boyce silt loam, 0-2 percent slopes</td>
<td>Prime Farmland if Irrigated and Drained</td>
</tr>
</tbody>
</table>

**Collection System.** The majority of the proposed collection system improvements will be located within the UGB on previously disturbed rights-of-way and gravel shoulders, thus not impacting farmland. Where work in farmland within the UGB is necessary, impacts will be limited to burying pipe. Disturbed areas will be restored to preconstruction condition and no permanent conversion will occur.

**Treatment and Wetland Disposal Area.** The treatment and wetland disposal areas are located equitably in Powder silt loam, 0-2 percent slopes; Crooked-Stearns complex, 0-2 percent slopes; and Boyce silt loam, 0-2 percent slopes (NRCS, 2010a). Each of these soils carries a designation of Prime Farmland or Farmland of Statewide Importance. These areas are currently being used for irrigated agriculture, with the majority of acres serviced by center-pivot irrigation.

**Formally Classified Lands**

Formally classified lands are lands designated by federal, state, and local governments for special purposes. These include parks, monuments, landmarks, historic trails, wild and scenic areas, wilderness areas, Native American owned lands, etc.

**Collection System.** While there are no formally classified lands directly impacted by the proposed project, there are a number of city parks in the vicinity. Gary A. Ward Park is within 500 feet of a proposed collection line.

**Treatment and Wetland Disposal Area.** No formally classified lands are directly impacted by the treatment and disposal area; however, there are a number of state and national parks within a ten-mile radius. Ochoco Wayside State Park is the closest at 1.75 miles southeast of the proposed wetland area.

**Wild and Scenic Rivers**

Sections of the Crooked River are classified as Wild and Scenic; however, all designated areas are significantly upstream or downstream of the
project area. As a result, this project will have no effect on Wild and Scenic rivers (NWSRS, 2009).

3.1.2 Environmental Consequences

Land Use

According to Oregon Revised Statutes (ORS) 215.283 (1)(d), “utility facilities necessary for public service...” may be established in any zone for EFU. Crook County will require a land use decision for the project in the form of an update to the City’s Conditional Use Permit (CUP) (Crook County Planning Department, 2010).

Important Farmland

The collection system improvements are within the UGB and will not result in a permanent conversion.

The proposed 240-acre wetland disposal area is located within three soils: Powder silt loam, 0-2 percent slopes; Crooked-Steams complex, 0-2 percent slopes; and Boyce silt loam, 0-2 percent slopes (NRCS, 2010a). All of the impacted soils are considered Prime Farmland or Farmland of Statewide Importance.

The proposed project will change the land use in the area for the proposed wetlands from irrigated agriculture and non-use to a constructed wetland disposal area.

The City's choice for alternatives would involve the construction of storage ponds, wetland disposal cells, and/or the acquisition of additional property. The alternatives were limited by land availability, proximity to the existing wastewater storage lagoon, and cost. Moreover, no alternatives were available to avoid impacts to important and Prime Farmland as most of the land around Prineville is designated as such.

Consultation with the Natural Resources Conservation Service (NRCS) through Dave Trochlel, Soil Scientist, under the Farmland Protection Policy Act (FPPA) has been initiated. Following design completion, NRCS will complete an AD-1006, Farmland Conversion Impact Rating (NRCS, 2010b).

Formally Classified Lands

No formally classified lands occur in the proposed project area; therefore, this project will have no environmental consequences on formally classified lands.
Wild and Scenic Rivers

Discontinuing discharge into the Crooked River may result in an offsite positive impact on the downstream portion of the river classified as Wild and Scenic. However, the proposed project area does not contain any Wild and Scenic rivers and as a result will have no environmental impacts on Wild and Scenic rivers.

Visual Aesthetics

Pipelines to collect wastewater will be underground in most locations and will stay primarily within existing rights-of-way. Where construction takes place outside a right-of-way, the site will be returned to preconstruction condition; thus, construction will not significantly alter the view of areas within the UGB.

The proposed constructed wetland will alter the view of the existing vegetated landscape immediately northwest of the existing treatment lagoons. The wetlands will be a new visual element in the landscape where there is currently an irrigated crop, though the wetland will be constructed adjacent to the Crooked River floodplain, a natural wetland setting. Since the alteration will be consistent with the appearance of natural wetlands occurring in the basin, changes to the visual environment as a result of this project will be minor.

3.1.3 Mitigation

Land Use

A Land Use Decision (LUD) will be required from Crook County to ensure that the proposed wastewater system improvements are within the permitted land uses. The existing CUP for the current wastewater facility will require modification. No mitigation is necessary because there will be no adverse impacts to land use as a result of the project.

Important Farmland

Most soils within the proposed project area are considered Prime Farmland, Prime Farmland if irrigated, and Farmland of Statewide Importance. Consultation for the FPPA has been initiated. Following design completion, NRCS will complete an AD-1006, Farmland Conversion Impact Rating. The City will coordinate with the appropriate professionals to obtain input regarding the seeding of plant species in disturbed areas to ensure successful establishment and prevent soil erosion. No other mitigation is anticipated.
Formally Classified Lands

No impacts to formally classified lands will occur as part of the proposed project and no mitigation is necessary.

Wild and Scenic Rivers

No impacts to Wild and Scenic rivers will occur as part of the proposed project and no mitigation is necessary.

Visual Aesthetics

No mitigation is required because the project will not cause a substantial change in the visual aesthetics of the area.
FIGURE 3-2A

PROJECT LOCATION

LEGEND

T.14-15 S., R.15-16 E., W.M.

CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
SOILS MAP - WETLANDS
3.2 Floodplain

3.2.1 Affected Environment

The Deschutes subbasin is located in Central Oregon in the high desert. The Crooked River watershed, within the Deschutes subbasin, is the largest eastside tributary to the Deschutes River (NWPPC, 2004). The watershed stretches west from the Ochoco mountain range to its confluence with the Deschutes River at Lake Billy Chinook (NWPPC, 2004). The action area is located adjacent to the Crooked River, in 5th Field HUC 17070305. The Crooked River is 109 miles long and the river and tributaries drain approximately 4,500 square miles (NWPPC, 2004).

According to the Federal Emergency Management Agency (FEMA) Map Service Center, FEMA Flood Insurance Rate Map (FIRM) Panel Numbers 41013C0385C, 41013C0403C, 41013C0412C, 41013C0411C, 41012C0384C, 41013C0415C, and 41013C0416C (dated April 30, 2010) have been assigned to the project area including the City of Prineville (FEMA, 2010). The planned disposal wetlands will be located adjacent to an area designated as "Special Flood Hazard Areas Inundated by 100-Year Flood Zone, AE Base Flood Elevations Determined" (see Figures 3-3A through 3-3G). The northwest corner of the treatment ponds may infringe upon the AE zone.

Small lengths of the proposed collection system improvement will be located within FEMA Zone AE, an area located within the 100-year flood zone.

3.2.2 Environmental Consequences

Construction of the wetland disposal site will occur on the perimeter of FEMA Zone AE, an area located within the 100-year flood zone. The 240-acre disposal wetland will receive treated wastewater from the existing lagoons. There will be no permanent impacts to the floodplain. Efforts will be made to avoid the floodplain yet the northwest corner may be temporarily disturbed from the excavation of the wetlands. No existing aboveground structures will be impacted as a result of the project.

Portions of the collection system will fall within FEMA Zone AE. Construction activities will consist of burying main lines and restoring the sites to preconstruction conditions. There will be no permanent impacts to the floodplain.

3.2.3 Mitigation

No mitigation will be necessary because the project will not encroach upon the floodway and no permanent adverse floodplain impacts are expected.
FIGURE 3-3A
CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
FLOODPLAIN MAP 41013C0384C

WETLANDS PROJECT LOCATION

CROOK COUNTY UNINCORPORATED AREAS 410950

Job # 1260-06-223  Nov. 5, 2010  lbauer

NOTES TO USERS

The type of flood insurance rate map is intended for individual property owners, lenders, architects, builders, real estate agents, and developers to view the flood risk from flood insurance rate map purposes. This flood insurance rate map is not intended to be used for flood emergency preparedness or flood hazard mitigation planning.

No insurance or flood risk statements are made in this map. All flood risk is determined by criterion in the National Flood Insurance Program (NFIP) Flood Insurance Rate Map (FIRM) or Flood Hazard Boundary Map (FHB) and the flood risk rating of that specific property.

It is the responsibility of the property owner to determine the appropriate Federal Emergency Management Agency (FEMA) flood insurance rate map. To obtain flood insurance, a flood insurance rate map must be determined. All flood insurance rate maps may be obtained from the Property Information System (PIS) online at www.fema.gov.

For more information, contact FEMA at 1-800-368-3688 or visit the FEMA website at www.fema.gov.

WETLANDS PROJECT LOCATION

FIRM FLOOD INSURANCE RATE MAP
CROOK COUNTY, OREGON AND INCORPORATED AREAS

PRELIMINARY
APRIL 30, 2010

CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
FLOODPLAIN MAP 41013C0384C

FIGURE 3-3A
This area shown at a scale of 1" = 1200' on map number 41013C0384.
FIGURE 3-3D
CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
FLOODPLAIN MAP 41013C0411C

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
FIGURE 3-3F
CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
FLOODPLAIN MAP 41013C0415C
Job# 1260-06-223  Nov. 4, 2010  lbauer

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
FIGURE 3-3G
CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
FLOODPLAIN MAP 41013C0416C

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
3.3 Wetlands

3.3.1 Affected Environment

The National Wetlands Inventory (NWI) Map identified two small palustrine emergent wetlands in the area of the proposed disposal wetlands. Other mapped wetlands in the project vicinity that may be impacted by the proposed pipelines include areas of palustrine emergent wetlands associated with the Crooked River, Ochoco Creek, and several small drainages and irrigation ditches (see Figures 3-4A through 3-4D).

A preliminary site visit was conducted on September 29, 2010, to determine whether wetlands may be present in the project area. Several potential wetlands were identified, all in those areas identified on the NWI Map. All potential wetland impact areas will be evaluated and delineated (if necessary) and a Wetland Delineation Report prepared, if required, as part of the planning and permitting process.

3.3.2 Environmental Consequences

Wetlands in the existing irrigation reuse site could be permanently impacted by construction of the proposed disposal wetlands. The wetlands associated with the Crooked River, Ochoco Creek, and various irrigation drainages may be impacted by the placement of new collection system main lines; however, these impacts will be temporary and no permanent impacts are anticipated.

3.3.3 Mitigation

Wetland areas, if found to exist, will be avoided during construction of the wetland disposal site.

Installation of the collection system improvements may impact wetlands. Wetlands will be avoided if possible. If avoidance is impracticable or unfeasible, permits will be obtained and appropriate environmental documents prepared prior to construction.
PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
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.

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
3.4 Historic Properties

3.4.1 Affected Environment

A search of the National Register of Historic Places was conducted. Five historic buildings are listed within the City of Prineville (NPS, 2009). In addition, Dennis Griffin, State Archaeologist with the Oregon State Historic Preservation Office (SHPO) indicated that known sites are in the area impacted by the collection system. Griffin noted that there are no known sites in the planned wetland disposal area but the region in general has a high probability for historic resources (SHPO, 2010).

The proposed disposal area is planted in crops and has heavy grass cover, resulting in poor visibility at the project site. An initial site visit with a Registered Professional Archaeologist (RPA) determined that site visibility was too low to warrant a pedestrian survey.

The majority of the collection system main lines will be located on existing rights-of-way that have been previously disturbed. The Ritches Lane, Rimrock, and Railroad main line will have areas of new disturbance.

3.4.2 Environmental Consequences

Excavation associated with the proposed wetland disposal site and associated collection system main lines will involve ground disturbance and could affect unknown cultural resources. Discussions with SHPO indicate that Shovel Test Probing (STP) will be required at the wetland disposal site (SHPO, 2010). Moreover, a pedestrian survey of the collection system areas will be required. It is likely that subsequent STP, if the collection system main lines transect the known sites, will be required. In accordance with ORS 390.235, an Oregon Archaeological Permit will be required to perform STP.

3.4.3 Mitigation

A scope of work to begin archaeological work has been developed, with SHPO concurrence. Archaeological work will begin prior to or concurrent with design activities as soon as funding allows (2011 or 2012).

If cultural resources are discovered within the project area during the archaeological survey, avoidance or mitigation will take place.

In the event that an archaeological resource is discovered during project operations, work will cease in that area and an archaeologist will be contacted to assess the discovery. In addition, SHPO and the Cultural Resources Protection Program (CRPP) staff with the Confederated Tribes of the Warm Springs Indian Reservation (CTWS) and Burns Paiute Tribe will be notified regarding the discovery.
3.5 Biological Resources

3.5.1 Affected Environment

Important fish and wildlife habitat in the proposed project area and vicinity includes the Crooked River, Ochoco Creek, and associated riparian areas. Riparian areas are critical to the health of streams, as the riparian vegetation provides shade and temperature regulation for the streams, provides cover for aquatic organisms, and stabilizes streambanks to prevent erosion. Wetlands are potentially present in the project area, mainly associated with the waterways, including various irrigation and drainage ditches.

Information from the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) websites and corresponding species lists indicates that the following federally listed species and critical habitat may occur in Crook County (see Section 6.0):

**Listed Species:**

*Endangered*
None

*Threatened*
Steelhead (Middle Columbia River ESU*) *Oncorhynchus mykiss*
Bull Trout (Columbia River DPS*) *Salvelinus confluentus*

*Proposed*
None

*Designated*
Steelhead Critical Habitat
Bull Trout Critical Habitat

**Candidate Species:**
Greater Sage-grouse *Centrocercus urophasianus*
Columbia Spotted Frog *Rana luteiventris*

* ESU = Evolutionary Significant Unit; DPS = Distinct Population Segment

A search of the Oregon Biodiversity Information Center (ORBIC) database found two records of rare, threatened, or endangered species within a two-mile radius of the project site, including bald eagle (*Haliaeetus leucocephalus*) and bull trout. Bald eagles are listed as Threatened by the Oregon Department of Fish and Wildlife (ODFW) and are not federally listed. Bull trout populations in this area are classified as Previous/Historic by ODFW and are not currently present in this reach of the Crooked River.
According to Brett Hodgson of ODFW, steelhead fry were reintroduced into the Crooked River in 2008, and rearing juveniles may be present near Prineville all year (ODFW, 2010).

The Crooked River does not contain designated or proposed critical habitat for steelhead or bull trout, but is considered Essential Fish Habitat because Chinook salmon occur in the river. According to Brett Hodgson, adult Chinook salmon may use the area near Prineville for spawning in September and October, and rearing juveniles may be present all year (ODFW, 2010). Deschutes River ESU Chinook salmon are not an ESA listed species.

3.5.2 Environmental Consequences

No in-water work is proposed as part of this project. The Crooked River, Ochoco Creek, and associated riparian habitat will not be impacted. The new disposal wetlands will be constructed at the location of the existing irrigation reuse site. A small string of existing wetlands is documented in this area; if found to exist after a wetland delineation is completed, the wetlands will be avoided. Two of the proposed collection system main lines will cross wetlands associated with irrigation ditches, but these impacts will be temporary and localized. The remaining project components are within previously disturbed areas of the City of Prineville. No impacts to any threatened, endangered, or rare species or habitat are anticipated.

3.5.3 Mitigation

During construction, proper erosion and sediment controls will be implemented. Where there is potential for delivery of sediment, silt fences, continuous rows of hay bales, bio bags, and other common techniques will be used to reduce or eliminate silt and sediment runoff from disturbed areas.
3.6 Water Quality

3.6.1 Affected Environment

The Crooked River, Ochoco Creek, Ryegrass Ditch, and several distribution canals are the only surface waters located in the project vicinity. The proposed disposal wetlands are located less than 100 feet from the Crooked River. One proposed collection system main line crosses Ryegrass Ditch in the vicinity of Ritches Lane, and other proposed lines cross small drainages in and near the City of Prineville (see Figure 3-5).

The project area does not lie in a Sole Source Aquifer or Critical Ground Water Area (EPA, 2010; OWRD, 2010a). The project is located within the Deschutes Groundwater Mitigation Area, which regulates groundwater withdrawal and mitigation (OWRD, 2010b).

3.6.2 Environmental Consequences

This project does not involve any groundwater removal, so the Deschutes Groundwater Mitigation Area regulations do not apply.

The small treatment wetland cell (three-day retention period) will be lined to keep treated wastewater from entering any groundwater sources. The disposal wetlands will not be lined and some groundwater infiltration will occur.

The City of Prineville currently holds an NPDES Permit from the DEQ to discharge treated wastewater directly into the Crooked River. According to Jayne West of the DEQ, the City will need to continue holding an NPDES Permit and will be subject to temperature requirements and any other wasteload allocations as a result of a total maximum daily load determination (DEQ, 2010a). It is expected that the use of disposal wetlands will lower stream temperature and improve water quality in the Crooked River.

3.6.3 Mitigation

No mitigation will be required as the project will not impact water quality of either surface or groundwater.
FIGURE 3-5

CITY OF PRINEVILLE, OREGON
RURAL DEVELOPMENT FUNDING APPLICATION
ENVIRONMENTAL REPORT
COLLECTION SYSTEM - HYDROLOGY INTERFACE

WETLANDS PROJECT LOCATION

PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.
3.7  Coastal Resources

The proposed project is not located within a coastal zone. As a result, the proposed project will have no environmental consequences on coastal resources.
3.8 Socioeconomic/Environmental Justice

3.8.1 Affected Environment

The profile published by the U.S. Census Bureau, 2000, provided the following racial characterization for the City of Prineville (U.S. Census Bureau, 2010b):

<table>
<thead>
<tr>
<th>Race</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>White</td>
<td>91.8</td>
</tr>
<tr>
<td>Black or African American</td>
<td>0.0</td>
</tr>
<tr>
<td>American Indian and Alaska Native</td>
<td>1.5</td>
</tr>
<tr>
<td>Asian</td>
<td>0.7</td>
</tr>
<tr>
<td>Native Hawaiian and Other Pacific Islander</td>
<td>0.0</td>
</tr>
<tr>
<td>Hispanic</td>
<td>7.4</td>
</tr>
<tr>
<td>Other</td>
<td>4.5</td>
</tr>
</tbody>
</table>

Note: Total is greater than 100 percent because the 2000 Census allowed identification by two or more races, while the 1990 Census limited respondents to one racial category.

The U.S. Census estimate for Median Household Income (MHI) for the City of Prineville is $30,435 versus $40,916 for the State of Oregon (U.S. Census Bureau, 2010c). The monthly residential sewer fee in the City of Prineville is approximately $50.99 per month. The City of Prineville’s poverty level is estimated to be 14.3 percent, which is higher than the estimated state poverty level of 11.6 percent (U.S. Census Bureau, 2010b, 2010c). The July 1, 2009, Portland State population estimate for Prineville is 10,370 (Proehl, 2010).

No elderly or minority populations residing adjacent to the proposed project area will be impacted by the project. No business or residential relocations will be required as part of the proposed project.

Completion of the proposed City of Prineville Wastewater System Improvements Project is necessary to provide adequate wastewater treatment and disposal for the anticipated population growth over the 20-year planning period.

3.8.2 Environmental Consequences

It is anticipated that there will be no rate increase to pay for the proposed wastewater system improvements. The City has existing debt that is due to expire in the next few years, allowing for sufficient borrowing capability to fund the proposed project while keeping rates unchanged for debt purposes.

The collection system improvements are expected to supply sewer and water service to 944 households (see Figure 3-6A). An estimated 404 of these households currently utilize shallow wells and septic systems (see
Figures 3-6B and 3-6C). These homes are located on small lots, with water contamination from septic systems posing a potential health and environmental hazard. According to Julie Lancaster, Crook County Environmental Health Department, domestic water wells in these areas have shown increased levels of nitrates (Crook County Environmental Health Department, 2010). According to the Centers for Disease Control and Prevention, poor septic systems are a common cause of nitrates in wells (CDC, 2009).

These areas, depicted in Figures 3-6B and 3-6C, tend to have lower income housing. It is anticipated that the USDA Rural Development’s Mandatory Hookup Clause will require these households to participate in the City’s sewer service, thus forcing them to pay the associated fee of $50.99 per month. It is anticipated that the increased drinking water safety and lack of septic maintenance cost will offset the increased cost from the service. Moreover, many of the homes are built on lots too small for septic system improvements. Therefore, in the case of a septic system failure, homes could be subject to condemnation from the DEQ.

Completion of the proposed improvements will benefit all City wastewater system users as they will improve environmental wellbeing as well as reduce health risks and potential dwelling loss to many residents, particularly those of low income. If the proposed improvements are not completed, the City will have no room for growth, discharge to the Crooked River will persist, and an estimated 404 residents will continue to bear the risk of drinking water contamination. Not proceeding with, or delaying, these improvements would have an adverse impact on the socioeconomic environment.

3.8.3 Mitigation

The proposed wastewater system improvements will benefit all City residents and the expense of construction is not anticipated to result in additional debt costs to the wastewater system users. The monthly sewer fee for new residents served as a result of this project will be offset by the reduced health risk and elimination of septic maintenance cost or potential condemnation. No mitigation is necessary.
PROPOSED COLLECTION SYSTEM IMPROVEMENTS, TYP.

~944 existing homes that could be served
~310 low income existing homes that could be served
~94 low income existing homes that could be served
3.9 Miscellaneous Issues (Air, Noise, Transportation, Visual Aesthetics)

3.9.1 Air Quality

3.9.1.1 Affected Environment

The affected environment will include the entire proposed project area and immediate surrounding vicinity. The Clean Air Act and Amendments of 1990 define a “non-attainment area” as a locality where air pollution levels persistently exceed National Ambient Air Quality Standards or that contribute to ambient air quality in a nearby area that fails to meet standards (DEQ, 2010b).

Prineville has not been identified by the DEQ as a non-attainment area and does not have an air quality maintenance plan or program. However, DEQ Air Quality rules do apply. Specifically, Division 208 addresses visual emissions and nuisance requirements.

The disposal area is within the jurisdiction of Crook County. According to Bill Zelenka, Crook County Planning Director, there is no air quality or dust ordinance within the EFU zone (Crook County Planning Department, 2010).

The collection system improvements fall within the UGB and City limits and as such are subject to the City of Prineville’s ordinances. According to Josh Smith, City Planner, the dust ordinance simply states that activity cannot create a "nuisance." Smith noted that this is complaint-based and can usually be addressed by spraying water on the affected areas to reduce dust (Prineville Planning Department, 2010).

3.9.1.2 Environmental Consequences

The project has the potential to temporarily affect air quality. Short-term impacts would include emissions from equipment operation and dust generated from construction activities.

No substantial particulate matter or detrimental emissions will be released as a result of the proposed project. No detrimental odors are expected to occur from the proposed project because wastewater will already be treated before it is released into wetlands for disposal. According to the DEQ, no air quality permits are needed for the proposed project (DEQ, 2010c).
3.9.1.3 Mitigation

Fugitive dust control measures, such as spraying water in work areas, applying mulch to disturbed ground, and taking steps to prevent dirt from being transported to pavement will be implemented as necessary during construction. DEQ rules outlined in Oregon Administrative Rules (OAR) 340-208 will be followed. No odor control measures are anticipated.

3.9.2 Noise

3.9.2.1 Affected Environment

The affected environment for noise generated as a result of the project will include the entire proposed project area and immediate surrounding vicinity. Noise is defined as unwanted sound that interferes with the normal activities of humans and the natural environment.

The wetland disposal area is located outside the UGB in an area zoned EFU. The wastewater collection system improvements are located within the UGB and City limits of Prineville (see Figure 3-1A). Neither the City nor the County has a noise ordinance (Prineville Planning Department, 2010; Crook County Planning Department, 2010).

Approximately 10 residences along the eastern boundary of the wetland disposal area may be affected by construction noise. City residents living adjacent to construction activities will be impacted.

3.9.2.2 Environmental Consequences

All noise created by the project will be intermittent and temporary in nature and confined to the project area during daylight hours for the duration of construction. The residences located adjacent to the proposed wetland disposal area are already subject to noise from Highway 370, and the construction activities associated with the disposal wetlands will occur during a short construction period.

Collection system improvements will subject residents adjacent to sewer line extensions to increased noise during construction. Construction activities will take place during daylight hours and will be consistent with typical municipal improvement projects common within the City. No long-term noise impacts will occur.
3.9.2.3 Mitigation

No mitigation is required for the proposed project because the scope of the project is not large enough to require a noise permit, and noise barrier protection will not be necessary. Construction activities will take place during daylight hours and will be intermittent and temporary.

3.9.3 Transportation

3.9.3.1 Affected Environment

The wetland disposal area is bordered by State Highway 370 to the east and a City wastewater facility access road to the north. The primary construction entrance will be the wastewater facilities access road off of Rimrock Acres Loop. Access off of the highway will be used as a secondary entrance, if necessary. The City will be required to obtain an Oregon Department of Transportation (ODOT) permit to use the access. A substantial increase in traffic is not anticipated.

The collection system improvements will create congestion and temporary road blockages and closures within the City limits. Sewer line extensions are planned in road rights-of-way. During times of construction, work will be completed on a block-by-block basis. According to Jerry Brummer, City of Prineville Public Works Director, detours will be made available around work sites if possible. As an alternative, flaggers will be stationed to provide for traffic flow. The City of Prineville requires the contractor to file a Traffic Control Plan for construction activities. To inform City residents, road closure and work notifications will be published in the newspaper and public works officials will go door to door to notify affected homes. Moreover, for work within commercial areas, public meetings will be held and public input gathered and assessed (Prineville Public Works Department, 2010).

3.9.3.2 Environmental Consequences

Temporary impacts to traffic congestion could occur during construction of the proposed project as more equipment would be using local roads during project construction. Work within the City limits will require motorists to use alternate routes and encounter temporary waits. No permanent or long-term impacts to transportation are anticipated as a result of the proposed project. The contractor will be required to file a Traffic Control Plan and the City will obtain an ODOT permit to access the wetland disposal site from Highway 370.
3.9.3.3 Mitigation

No mitigation is required for the project as no long-term or permanent impacts to transportation will occur.
3.9.4 Visual Aesthetics

3.9.4.1 Affected Environment

The proposed wetland disposal site will alter the view of the irrigated fields north of Highway 370. However, the change will be consistent with natural areas that already exist throughout the landscape. Center pivot irrigation systems will be removed from the site, thus producing a more historic landscape.

Existing wastewater treatment ponds are directly east of the proposed wetland site and have already introduced an artificial aquatic element to the landscape.

The wetland disposal site can be viewed from a hiking trail in the Ochoco Wayside State Park. However, as previously discussed, the view will be consistent with historical landscapes. No other visually sensitive areas exist in the proposed project area.

The collection system improvements will be within the City limits and provide temporary visual impairments due to construction activity; affected areas will be restored to preconstruction condition. There are no visually sensitive areas, such as parks, located immediately adjacent to proposed construction activities.

3.9.4.2 Environmental Consequences

The view from the Ochoco Wayside State Park would be similar to the historic view and existing visual surroundings, given the present wastewater treatment lagoons; therefore, the project will not have an impact on visual aesthetics. The collection system areas will have minor temporary impacts but will be returned to preconstruction condition.

3.9.4.3 Mitigation

No mitigation will be required as the project will not significantly impact visual resources.

3.9.5 Hazardous Material and Safety

3.9.5.1 Affected Environment

According to the DEQ, there is potential for buried asbestos cement (AC) pipe in the work areas (DEQ, 2010c). The City of Prineville installed AC pipe for their water and sewer systems from 1960 through the later part of the 1970s. The proposed collection system
main lines will potentially cross existing AC lines (Prineville Public Works Department, 2010).

The wetland disposal site has very little potential for buried AC pipe. According to Mr. Brummer, the site had no irrigation development until the City purchased the site and installed a pivot irrigation system with buried main lines in 2006.

### 3.9.5.2 Environmental Consequences

There is potential to encounter AC pipe during the collection system improvements construction, while it is unlikely that AC is present within the proposed wetland disposal site. Steps will be taken to avoid AC pipe if possible. If contact with AC pipe is unavoidable, the City and contractor will follow OAR 340-248, Asbestos Requirements. The City and contractor may initiate consultation with the Occupation Safety and Health Administration (OSHA) prior to construction if necessary (OSHA, 2010).

### 3.9.5.3 Mitigation

No mitigation will be required as OAR 340-248 will be followed if AC pipe is encountered.
# Section 4.0
## Summary of Mitigation

<table>
<thead>
<tr>
<th>Section</th>
<th>Summary</th>
<th>Action Required</th>
<th>Enforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 Land Use</td>
<td>The 240-acre proposed disposal wetland will be constructed on the edge of the 100-year floodplain, within EFU Zone F2. Soils are classified as Prime Farmland and Farmland of Statewide Importance.</td>
<td>The disposal wetlands will require a LUD in the form of a CUP update from Crook County for the proposed use. Consultation for FPPA is required.</td>
<td>Crook County will address the land use changes and issue a LUD prior to construction of the wetland disposal area. NRCS will complete a Farmland Conversion Impact Rating.</td>
</tr>
<tr>
<td></td>
<td>The collection system improvements are within the UGB and the City’s Comprehensive Plan.</td>
<td>No mitigation required.</td>
<td>None</td>
</tr>
<tr>
<td>3.2 Floodplain</td>
<td>The wetland disposal site will border the 100-year flood zone in the northwest corner. No impacts to the floodway will occur.</td>
<td>No mitigation required.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>Portions of the collection system improvements will be located in the 100-year flood zone. No permanent impacts will occur.</td>
<td>No mitigation required.</td>
<td>None</td>
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<tr>
<td>Section</td>
<td>Summary</td>
<td>Action Required</td>
<td>Enforcement</td>
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<tr>
<td>3.3 Wetlands</td>
<td>NWI lists a small wetland in the proposed wetland disposal area.</td>
<td>A wetland delineation will occur in the permitting phase. If wetlands do exist, the area will be avoided.</td>
<td>A wetland delineation will be conducted. Wetlands will be avoided.</td>
</tr>
<tr>
<td></td>
<td>Wetlands are listed along streams and drainages within the proposed collection system improvements locations.</td>
<td>Permit(s) will be obtained prior to construction and environmental documents will be completed.</td>
<td>The City will ensure a permit is obtained. A project representative will ensure permit conditions are met.</td>
</tr>
<tr>
<td>3.4 Historic Properties</td>
<td>There are no known historic or pre-historic sites at the disposal wetland site. A site study plan is being developed in conjunction with SHPO.</td>
<td>Because the project site is located within an area having a high probability for archaeological sites, STP survey will be conducted prior to construction. Cultural material discovery requirements will be included in the construction contract documents. In the event any human remains or historical objects of archaeological or paleontological nature are inadvertently encountered, all construction work will cease in that area and a qualified archaeologist will be consulted to determine if the resource has cultural significance; SHPO and the CTWS CRPP will be notified of the discovery.</td>
<td>An RPA will follow an approved site study plan. If a site is discovered, avoidance or mitigation will occur. A project representative will monitor compliance with the plans and specifications regarding cultural material discovery.</td>
</tr>
<tr>
<td><strong>Section</strong></td>
<td><strong>Summary</strong></td>
<td><strong>Action Required</strong></td>
<td><strong>Enforcement</strong></td>
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<td></td>
<td>There are known sites in the vicinity of the proposed collection system main line routes. A site study plan is being developed in conjunction with SHPO.</td>
<td>Because the project site is located within an area having known archaeological sites, pedestrian and STP survey (when deemed necessary) will be conducted prior to construction. Cultural material discovery requirements will be included in the construction contract documents. In the event any human remains or historical objects of archaeological or paleontological nature are inadvertently encountered, all construction work will cease in that area and a qualified archaeologist will be consulted to determine if the resource has cultural significance; SHPO and the CTWS CRPP will be notified of the discovery.</td>
<td>An RPA will follow an approved site study plan. If a site is discovered, avoidance or mitigation will occur. A project representative will monitor compliance with the plans and specifications regarding cultural material discovery.</td>
</tr>
<tr>
<td>3.5 Biological Resources</td>
<td>Steelhead may be found in the project area. The project will not impact biological resources as the wetland disposal site will be created in an agriculture field with a service road providing a buffer. No in-water work is planned.</td>
<td>No mitigation will be required for threatened or endangered species, fish and wildlife resources, or vegetation resources as a result of disposal wetland construction.</td>
<td>None</td>
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<tr>
<td>Section</td>
<td>Summary</td>
<td>Action Required</td>
<td>Enforcement</td>
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<td></td>
<td>Collection system improvements will cross streams and wetlands. It is anticipated that the pipes will be bored under streams or attached to existing bridges to avoid the ordinary high water elevation (OHWE). No in-water work is planned.</td>
<td>If work within the OHWE cannot be avoided, a permit will be obtained and a Biological Assessment will be prepared prior to construction. However, no negative impacts are expected. Proper erosion and sediment controls will be taken.</td>
<td>A project representative will ensure erosion and sediment controls are in place and permit conditions, if any, are adhered to.</td>
</tr>
<tr>
<td>3.6 Water Quality Issues</td>
<td>Construction of the proposed wetland disposal site will occur at the perimeter of the floodplain and within the Deschutes Groundwater Mitigation Area. No groundwater removal will occur.</td>
<td>A sediment control plan will be developed and an NPDES Construction Stormwater General 1200-C Permit obtained from the DEQ. Temporary and permanent Best Management Practices (BMPs) will be implemented and maintained to control on-site erosion and prevent off-site runoff. The small treatment wetland cell will be lined to prevent treated wastewater from entering groundwater sources.</td>
<td>A project representative will monitor BMPs to control off-site runoff.</td>
</tr>
<tr>
<td></td>
<td>Portions of the collection system improvements will occur in the floodplain. Prineville is within the Deschutes Groundwater Mitigation Area. No groundwater removal will occur.</td>
<td>A sediment control plan will be developed and an NPDES Construction Stormwater General 1200-C Permit obtained from the DEQ. Temporary and permanent BMPs will be implemented and maintained to control on-site erosion and prevent off-site runoff.</td>
<td>A project representative will monitor BMPs to control off-site runoff.</td>
</tr>
<tr>
<td>3.7 Coastal Resources</td>
<td>There are no coastal resources in the project area.</td>
<td>No mitigation required.</td>
<td>None</td>
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<tr>
<td>Section</td>
<td>Summary</td>
<td>Action Required</td>
<td>Enforcement</td>
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<tr>
<td>3.8 Socioeconomic/Environmental Justice</td>
<td>The cost of the wetland disposal site will create no additional debt impact to existing rates for municipal users. No other socioeconomic or environmental justice issues are present.</td>
<td>No mitigation required.</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>The project area will impact low income families. It is anticipated that project benefits will outweigh costs associated with monthly sewer fees.</td>
<td>No mitigation required.</td>
<td>None</td>
</tr>
<tr>
<td>3.9 Miscellaneous Air, Transportation, Noise, Visual, Hazardous Material</td>
<td>The project will have temporary impacts to air quality and noise during construction. Access from OR 370 will be required.</td>
<td>Fugitive dust control measures will be applied as needed. OAR 340-208 will be followed. No noise mitigation is required. A permit will be obtained prior to construction to access the site from OR 370.</td>
<td>A project representative will monitor dust during construction and require dust abatement as necessary (following OAR 340-208). A project representative will ensure construction occurs during daylight hours and noise is not excessive. An ODOT permit will be obtained and conditions followed.</td>
</tr>
<tr>
<td>Section</td>
<td>Summary</td>
<td>Action Required</td>
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<tr>
<td></td>
<td>The project will have temporary impacts to air quality and noise during construction. Normal street access will be affected during collection system improvements. There is potential for contact with AC pipe.</td>
<td>Fugitive dust control measures will be applied as needed. OAR 340-208 will be followed. No noise mitigation is required. A Traffic Control Plan will be filed prior to construction and outreach will be conducted. OAR 340-248 will be followed if AC pipe is encountered.</td>
<td>A project representative will monitor dust during construction and require dust abatement as necessary (following OAR 340-208). A project representative will ensure construction occurs during daylight hours and noise is not excessive. A project representative will ensure adherence to the Traffic Control Plan. The City Public Works Department will conduct outreach to the public. CAR 340-248 will be followed by the project representative if necessary.</td>
</tr>
</tbody>
</table>
5.0 Correspondence

As part of the preparation of this Environmental Report, correspondence regarding the City of Prineville’s wastewater system improvements project was sent to federal, state, tribal, and local agencies in September 2010. Additional communication via telephone and e-mail was conducted as needed to complete the appropriate level of assessment of each resource potentially affected by the proposed project. The list of agencies contacted is presented in Section 5.1. Section 5.2 contains the attachments sent to the agencies along with the September letter. Copies of the letters, e-mail correspondence, and records of telephone conversations are included in Section 5.3.

5.1 Agency Contacts

<table>
<thead>
<tr>
<th>Contact</th>
<th>Method of Project Notification</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Section 3.1 – Land Use/Important Farmland/Formally Classified Lands</strong></td>
<td></td>
<td></td>
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<tr>
<td>USDA NRCS Chris Mundy; DC Dave Trochlell; Soil Scientist</td>
<td>September Letter</td>
<td>Phone - C. Mundy E-mail/Phone - D. Trochlell</td>
</tr>
<tr>
<td>Crook County SWCD Dottie Morisette; Distric: Manager</td>
<td>September Letter</td>
<td>Phone - P. Johnson</td>
</tr>
<tr>
<td>Crook County Planning Department Bill Zelenka, Director</td>
<td>September Letter</td>
<td>Personal Interview - B. Zelenka</td>
</tr>
<tr>
<td><strong>Section 3.2 - Floodplains</strong></td>
<td></td>
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<tr>
<td>Crook County Planning Department Bill Zelenka, Director</td>
<td>September Letter</td>
<td>Personal Interview - B. Zelenka</td>
</tr>
<tr>
<td>Land Conservation Development Department Christine Shirley</td>
<td>E-mail</td>
<td>No Response</td>
</tr>
<tr>
<td>Department of State Lands Bethany Harrington</td>
<td>September Letter</td>
<td>Phone - B. Harrington</td>
</tr>
<tr>
<td><strong>Section 3.3 - Wetlands</strong></td>
<td></td>
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<tr>
<td>U.S. Fish and Wildlife Service NWI Maps</td>
<td>Agency Website for NWI Maps</td>
<td>Retrieved</td>
</tr>
<tr>
<td>DSL, Local Wetlands Inventory (LWI) Maps Bethany Harrington</td>
<td>Agency Website for LWI Maps September Letter</td>
<td>Retrieved Phone - B. Harrington</td>
</tr>
<tr>
<td>USACE, Shelly Schmicki, Forwarded to Brian Wilson</td>
<td>September Letter</td>
<td>Letter - B. Wilson</td>
</tr>
<tr>
<td><strong>Section 3.4 – Historic Properties</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Confederated Tribes of the Warm Springs Reservation Sally Bird, Cultural Resources Manager</td>
<td>September Letter October Phone Message</td>
<td>E-mail - S. Bird</td>
</tr>
<tr>
<td>Burns Paiute Tribe Theresa Peck, Cultural &amp; Heritage Dept.</td>
<td>September Letter October Phone Message</td>
<td>No Response</td>
</tr>
<tr>
<td>Klamath Tribes Perry Chocktoot, Cultural &amp; Heritage Dept.</td>
<td>October Phone Message</td>
<td>No Response</td>
</tr>
<tr>
<td>Contact</td>
<td>Method of Project Notification</td>
<td>Response</td>
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<tr>
<td>State Historic Preservation Office</td>
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<tr>
<td>Dennis Griffin, Archaeologist</td>
<td>September Letter</td>
<td>Phone - D. Griffin</td>
</tr>
<tr>
<td>State Historic Preservation Office</td>
<td></td>
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<tr>
<td>Ian Johnson, Historian</td>
<td>September Letter</td>
<td>Letter - J. Osborne</td>
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<tr>
<td>Oregon Legislative Commission on Indian Services</td>
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<tr>
<td>Karen Quigley</td>
<td>E-mail</td>
<td>Phone - K. Quigley</td>
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<tr>
<td><strong>Section 3.5 – Biological Resources</strong></td>
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<tr>
<td>U.S. Fish and Wildlife Service</td>
<td>Website for Species List</td>
<td>Retrieved</td>
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<tr>
<td>Nancy Gilbert, Field Supervisor</td>
<td>September Letter</td>
<td></td>
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<tr>
<td>Oregon Department of Fish &amp; Wildlife</td>
<td></td>
<td></td>
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<tr>
<td>Brett Hodgson, Fish Biologist</td>
<td>September Letter</td>
<td>Phone, Pers. Interview - B. Hodgson</td>
</tr>
<tr>
<td>Larry Pecnka, Wildlife Biologist</td>
<td>October Phone Message</td>
<td>No Response</td>
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<tr>
<td>National Marine Fisheries Service</td>
<td>Agency Website for Species List</td>
<td>Retrieved</td>
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<tr>
<td>Spencer Hovekamp, Manager</td>
<td>September Letter</td>
<td>Letter - M. Tehan</td>
</tr>
<tr>
<td>Oregon Biodiversity Information Center</td>
<td>E-mail</td>
<td>Letter - C. Alton</td>
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<tr>
<td><strong>Section 3.6 – Water Quality</strong></td>
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<tr>
<td>Oregon Department of Environmental Quality 303(d) List</td>
<td>Agency Website for 303(d) list</td>
<td>Retrieved</td>
</tr>
<tr>
<td>Jayne West, Eastern Region Water Quality</td>
<td>September Letter</td>
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<tr>
<td>Environmental Protection Agency</td>
<td>Agency Website for Sole Source Aquifer Map</td>
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<td>Sole Source Aquifer Map</td>
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<tr>
<td><strong>Section 3.7 – Coastal Resources</strong></td>
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<tr>
<td>Not applicable</td>
<td>N/A</td>
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<tr>
<td><strong>Section 3.8 – Socioeconomic/Environmental Justice</strong></td>
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<tr>
<td>U.S. Census Bureau</td>
<td>Agency Website for 2000 Census Information</td>
<td>Retrieved</td>
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<tr>
<td>Census 2000 Information</td>
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<tr>
<td>Portland State University</td>
<td>Website for 2008 Oregon Population Report</td>
<td>Retrieved</td>
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<tr>
<td>2008 Population Report</td>
<td></td>
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<tr>
<td>Crook County Environmental Health Department</td>
<td>Phone Call</td>
<td>Phone - J. Lancaster</td>
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<tr>
<td></td>
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<tr>
<td><strong>Section 3.9 – Miscellaneous Issues (Air, Noise, Transportation, Visual Resources)</strong></td>
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<tr>
<td>Oregon Department of Environmental Quality</td>
<td>September Letter</td>
<td>E-mail - F. Messina</td>
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<tr>
<td>Frank Messina</td>
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<tr>
<td>Crook County Planning Department</td>
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<tr>
<td>Bill Zelenka, Director</td>
<td>Interview</td>
<td>Personal Interview - B. Zelenka</td>
</tr>
<tr>
<td>City of Prineville Planning Department</td>
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<tr>
<td>Josh Smith, Planner I</td>
<td>Interview</td>
<td>Personal Interview - J. Smith</td>
</tr>
<tr>
<td>Oregon Department of Environmental Quality</td>
<td>Aquifer Report</td>
<td>Retrieved</td>
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<tr>
<td>City of Prineville Public Works</td>
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<tr>
<td>Department</td>
<td></td>
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<tr>
<td>Jerry Brummer, Superintendent</td>
<td>Phone Call/Interview</td>
<td>Phone, Interview - J. Brummer</td>
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<tr>
<td>Occupational Safety and Health</td>
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<tr>
<td>Administration</td>
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<tr>
<td>Randy Nice</td>
<td>Phone Call</td>
<td>R. Nice</td>
</tr>
</tbody>
</table>
5.2 Correspondence Sent to Agencies
September 14, 2010

Bill Zelenka, Director
Crook County Planning Department
300 N.E. 3rd Street, Room 11
Prineville, Oregon 97754

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Zelenka:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying possible land use and/or environmental issues that may be in the proposed project area, or any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential impacts.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)

Cc Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
Frank Messina  
Oregon Department of Environmental Quality, East Region  
2146 N.E. 4th Street  
Bend, Oregon 97701

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Messina:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying possible environmental issues that may be affected by the project, and any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential environmental impacts that may arise.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary  
Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)  
Pam Swires, Rural Development (w/encl.)  
Charlotte Rollier, Rural Development (w/encl.)  
Shanna Olson, DEQ (w/encl.)  
File No. 1206-06-23 (w/encl.)
September 14, 2010

Jayne West
Oregon Department of Environmental Quality
475 N.E. Bellevue, Suite 110
Bend, Oregon 97701

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. West:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying possible water quality issues that may be affected by the project, and any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential environmental impacts that may arise.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckersn@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
September 14, 2010

Bethany Harrington
Resource Coordinator
Oregon Department of State Lands
1645 N.E. Forbes Road, Suite 112
Bend, Oregon 97701

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Harrington:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying possible wetland and floodplain issues that may be affected by the project, and any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential environmental impacts that may arise.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckesterns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By [Signature]
Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)

cc: Eric Klaun, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

G:\Clients\Prineville\Wastewater\1206-06-23\Correspondence\Prineville EBLetter DSL.doc

La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 14, 2010

Spencer Hovekamp, Manager
National Marine Fisheries Service
La Grande Field Office
3502 Highway 30
La Grande, Oregon 97850

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Hovekamp:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying species that are federally listed or eligible for listing, any designated or proposed critical habitat that may be affected by the project, and/or other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential impacts to listed species that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By
Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)
Cc Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 14, 2010

Chris Mundy, District Conservationist
USDA Natural Resources Conservation Service
Redmond Service Center
625 S.E. Salmon Avenue, Building A
Redmond, Oregon 97756-8695

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Mundy:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying prime, unique, and important farmland, as well as any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential impacts to properties that may be affected. I have sent this letter along with Form AD-1006, Farmland Conversion Impact Rating, to Dave Trochlell, NRCS Resource Soil Scientist, for his assistance in its completion.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)
cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
September 14, 2010

Brett Hodgson, Fish Biologist
Oregon Department of Fish and Wildlife
61374 Parrell Road
Bend, Oregon 97702

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Hodgson:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying species that are state listed or eligible for listing, and any other important state natural resources that may occur in the project area. Please provide any recommendations you have to mitigate or avoid these impacts.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309, or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figuras (3)
cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

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September 14, 2010

Larry Pecenka, Wildlife Biologist
Oregon Department of Fish and Wildlife
61374 Parrell Road
Bend, Oregon 97702

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Pecenka:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City's Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City's need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying species that are state listed or eligible for listing, and any other important state natural resources that may occur in the project area. Please provide any recommendations you have to mitigate or avoid these impacts.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309, or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

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September 14, 2010

Ian Johnson, State Historian
State Historic Preservation Office
725 Summer Street N.E., Suite C
Salem, Oregon 97301

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Johnson:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlined the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The Area of Potential Effect (APE) is shown in Figures 1 and 3. The APE has been determined to consider direct and indirect effects, including potential visual impacts. The City of Prineville requests the assistance of your office in concuring with the APE, as well as identifying historic properties that are listed or eligible for listing on the National Register of Historic Places and that may be affected by the project. Please provide any recommendations you have to mitigate or avoid these impacts to properties that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckers@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Röllier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

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La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 14, 2010

Dennis Griffin, State Archeologist
State Historic Preservation Office
725 Summer Street N.E., Suite C
Salem, Oregon 97301

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Griffin:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The Area of Potential Effect (APE) is shown in Figure 1 for the treatment facility and Figure 3 for the collection system. The method of study will be a pedestrian survey.

The City of Prineville requests the assistance of your office in concurring with the APE and study method, as well as identifying historic sites that may be affected by the project. Please provide any recommendations you have to mitigate or avoid these impacts to properties that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at c Kerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By, Cater Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rolfe, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-05-23 (w/encl.)

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La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456

Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 14, 2010

Dottie Morisette, District Manager
Crook County SWCD
498 S.E. Lynn Boulevard
Prineville, Oregon 97754

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Morisette:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying important farmland and prime rangeland, as well as any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential impacts to properties that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at cckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)
cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
September 14, 2010

Shelly Schmidt, Project Manager
U.S. Army Corps of Engineers
3502 Highway 30
La Grande, Oregon 97850

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Schmidt:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying possible wetland and environmental issues that may be affected by the project, and any other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid any potential environmental impacts that may arise.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

[Signature]

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)

cc: Eric Klann, FE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Ro.lier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
September 14, 2010

Nancy Gilbert, Field Supervisor
U.S. Fish and Wildlife Service
Bend Field Office
20310 Empire Avenue, Suite A-100
Bend, Oregon 97701

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Gilbert:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying species that are federally listed, are eligible for listing, any designated or proposed critical habitat that may be affected by the project, and/or other resources that may be of concern. Please provide any recommendations you have to mitigate or avoid these impacts.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Projec: Summary
Figures (3)
cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)

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☐ La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
☐ Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 14, 2010

Sally Bird, CR Manager  
Confederated Tribes of the Warm Springs Reservation  
1233 Veterans Street  
Warm Springs, Oregon 97761

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Bird:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying cultural resources that may be affected by the project and any other important resources that may be of concern to the Confederated Tribes of the Warm Springs Reservation. Please provide recommendations you have to mitigate or avoid any potential impacts to cultural resources that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Projec: Summary Figures (3)
Cc Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
File No. 1206-06-23 (w/encl.)
September 14, 2010

Dave Trochlell
USDA Natural Resources Conservation Service
La Grande Service Center
1901 Adams Avenue, Suite 6
La Grande, Oregon 97850

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Mr. Trochlell:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying prime, unique, and important farmland, as well as any other resources that may be of concern. I have included Form AD-1006, Farmland Conversion Impact Rating, for your use. Please provide any recommendations you have to mitigate or avoid any potential impacts to properties that may be affected.

We would appreciate a response from your agency within 45 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309, or by e-mail at ckerns@andersonperry.com.

Sincerely,

ANDERSON PERRY & ASSOCIATES, INC.

Catie Kerns, Natural Resources Specialist

CK/jm
Enclosures: Project Summary
Figures (3)
Form AD-1006
Soils Map
cc: Eric Klaas, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollie, Rural Development (w/encl.)
Shanna Olson, DEQ (w/encl.)
Ron Raney, Natural Resources Conservation Service (w/encl.)
File No. 1206-06-23 (w/encl.)

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La Grande, Oregon 97850 / 1901 N. Fir Street, P.O. Box 1107 / (541) 963-8309, Fax (541) 963-5456
Walla Walla, Washington 99362 / 214 E. Birch Street, P.O. Box 1687 / (509) 529-9260, Fax (509) 529-8102
September 20, 2010

Theresa Peck
Burns Paiute Tribe
100 Pasigo Street
Burns, Oregon 97720

RE: City of Prineville, Oregon - Wastewater System Improvements

Dear Ms. Peck:

The City of Prineville is in the process of performing an environmental review pursuant to the National Environmental Policy Act (NEPA) for the USDA Rural Utilities Service, in conjunction with the Department of Environmental Quality (DEQ), in order to assess the environmental impacts of the proposed City of Prineville Wastewater System Improvements project in Crook County, Oregon.

The City’s Wastewater Facilities Plan identifies the potential to outgrow the current wastewater system facility capacity due to higher than anticipated municipal growth. The Plan also outlines the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. Wetland areas will be utilized in treatment to eliminate the City’s need to discharge treated wastewater into the Crooked River. A more detailed project summary and location maps are included with this letter to assist in your review.

The City of Prineville requests the assistance of your office in identifying cultural resources that may be affected by the project and any other important resources that may be of concern to the Burns Paiute Tribe. Please provide recommendations you have to mitigate or avoid any potential impacts to cultural resources that may be affected.

We would appreciate a response from your agency within 30 days. If you need any additional information or wish to discuss the project, please contact me at (541) 963-8309 or by e-mail at ckersn@andersonperry.com.

Sincerely,

ANDERSON-PERRY & ASSOCIATES, INC.

By Catie Kerns, Natural Resources Specialist

Enclosures: Project Summary Figures (3)

cc: Eric Klann, PE, City Engineer (w/encl.)
Pam Swires, Rural Development (w/encl.)
Charlotte Rollier, Rural Development (w/encl.)
Shanna Bailey, DEQ (w/encl.)
File No. 1205-06-32 (w/encl.)

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Good Morning Christine—

The City of Prineville is preparing to pursue funding from RD for upgrades to their wastewater treatment facility and collection system. Please find attached a copy of the letter, summary and project maps. If you have any concerns or comments about the project in relation to natural hazards, please let me know.

Thanks.

Catie Kerns
Natural Resources Specialist
Anderson Perry & Associates, INC.
1901 N Fir Street / P.O. Box 1107
La Grande OR 97850
541-963-8309 phone
541-786-3108 cell
541-963-5456 fax
ckerns@andersonperry.com
http://www.andersonperry.com
BACKGROUND

The City of Prineville completed a Wastewater Facilities Plan (WWFP) in 2005, with an update in 2010. The WWFP included analysis of the existing system and historical wastewater data, development of design criteria, evaluation of system deficiencies and needs, evaluation of improvement alternatives, and development of a financial plan and project implementation plan to complete the recommended improvements.

The original wastewater treatment facility began operation in 1960 and was upgraded in 1993 and 2005 to bring the total flow capacity of the plant to 1.67 million gallons per day (MGD). The 2005 WWFP recognized that the City was growing at a faster rate than previously forecasted and the treatment plant would reach its capacity by 2013. Effluent is currently discharged to the Crooked River, when allowed, and is also applied at agronomic rates to a crop field via irrigation.

PURPOSE AND NEED FOR PROJECT

The WWFP identified the potential for the City to outgrow the wastewater system facility capacity due to higher than anticipated growth. The WWFP also outlined the need for collection system improvements to help reduce infiltration and inflow. Treatment plant improvements are needed to help improve treatment capabilities, overall system capacity, and system efficiencies. These improvements will allow the City to expand the wastewater treatment and disposal system capacity to meet 20-year growth requirements and will eliminate the need to discharge treated wastewater into the Crooked River.

EXISTING CONDITIONS

The 1960 treatment system consists of evaporative lagoons. Wastewater is collected via a gravity flow collection system and is then pumped to the treatment lagoons. The 1993 and 2005 upgrades included improving system capacity by installing a partially aerated facultative lagoon system with increased capacity. Disposal is completed by discharging effluent into the Crooked River at a rate of 1 MGD with the remainder stored in effluent storage ponds for disposal by irrigation reuse on the Meadow Lakes Golf Course and on City-owned pasture land. Combined, these disposal methods are adequate for only 1.60 MGD of the 1.67 MGD design flow.

PROJECT DESCRIPTION

The proposed project consists of construction of a wetland disposal system as well as completion of as many collection system improvements as funding will permit.
The wetland disposal system will be located northwest of the City of Prineville in Crook County, Oregon, as shown on Figure 1, Location and Vicinity Maps. An aerial photograph of the wetland disposal area is shown on Figure 2, Disposal Wetlands Location. The location of the proposed disposal wetlands relative to the City limits and urban growth boundary is shown on Figure 3, City Limits and Urban Growth Boundary. The disposal wetlands portion of the project is located in Township 14 South, Range 15 East, Sections 26 and 35.

The proposed collection system improvements are shown on Figure 3. The proposed collection system improvements are intended to upgrade existing service and/or provide new service to areas not currently served by the wastewater collection system. The intent of these improvements is to provide wastewater collection service to areas within the current City limits to help eliminate septic systems that can lead to possible shallow groundwater contamination.

**SYSTEM NEEDS**

The 2010 WWFP Update identified the following needed improvements for the City of Prineville’s wastewater system to meet future needs.

**Wastewater Collection System Improvements.** Several areas in the collection system were considered problem areas at 2005 maximum daily flow rates. Improvements to the City’s wastewater collection system are proposed for several areas, as generally shown on Figure 3. The identified collection system improvements are proposed in areas needing improved service and areas needing new service to eliminate existing septic systems. These are described hereafter, starting in the north central area of the City and moving clockwise as shown on Figure 3.

1. **Alabama Way Main Line** - This sewer main line will be installed on Alabama Way from 13th Street to Rawhide Lane.

2. **Railroad Grade Main Line** - This sewer main line will be installed on the railroad grade from Alabama Way to 2nd Street.

3. **Combs Flat Road/Paulina Highway Main Line** - This sewer main line will be installed on Combs Flat Road starting at Leslie Lane extending south then southeast on the Paulina Highway to the City limits line.

4. **Melrose Drive and Lincoln Road Main Line Extensions** - These sewer main lines will extend into areas in the southeast portion of the City to provide service to new areas.

5. **Lynn Boulevard Main Line** - This main line will extend along Lynn Boulevard from Combs Flat Road west to Alabama Way.

6. **Crooked River Highway Main Line Extension** - This main line will extend south on the Crooked River Highway from Lynn Boulevard to the south City limits.
7. Rimrock Road/Crestview Road Main Line Extension - This main line will extend on Rimrock and Crestview Roads from the west side of the Crooked River northwest to the existing wastewater lagoon area.

8. Locust/Harwood Street Main Line - This main line will extend south on Harwood Street to 10th Street then west to Locust Street and south to 9th Street.

9. Gardner Road/Highway 26 Main Line - This main line will extend southeast on the railroad grade from Ritches Lane to Gardner Road extending on Gardner Road to Highway 26, then southeast on Highway 26 to Studebaker Drive.

10. Ritches Lane Main Lines - Two main lines will be installed to extend service to existing areas in the northern portion of the City. These main lines will extend roughly southwest to Ritches Lane connecting to the improvement outlined in item 9 above.

The proposed collection system improvements will be installed on existing rights-of-way adjacent to existing roads and gravel shoulders. Where creek crossings occur, it is anticipated these sewer main lines can be installed on existing bridges eliminating the need for any in-stream work. Installation of all sewer main lines will be permitted as required by the appropriate regulatory agency. In the event unanticipated areas will be impacted, such as creeks, etc., the City will complete the appropriate permitting work and agency consultation as required.

**Wastewater Treatment System Improvements.** The following improvements are proposed for the existing wastewater treatment system.

- Existing pump station improvements
- Existing lagoon aeration system improvements

The existing system improvements will help ensure the pump station continues to operate as needed for the 20-year design life and will help improve the treatment capacity and efficiency of the City's existing lagoon system.

**Wastewater Disposal System Improvements.** Improvements to the City's wastewater disposal system will occur northwest of the City in the area shown on Figures 1 and 2. The City of Prineville will convert the existing irrigation reuse site to constructed wetlands for the disposal of treated effluent. This will allow the storage and effluent disposal characteristics of wetlands to be utilized to increase the disposal capacity of the treatment plant and improve environmental health. The wetland disposal improvements will also eliminate the need to discharge treated wastewater to the Crooked River, which is anticipated to help improve water quality within the Crooked River watershed.

Using the 20-year (year 2030) projected population and the associated wastewater flows, it has been determined that the total land needed for constructed
wetlands is approximately 230 to 240 acres, with the golf course continuing to utilize treated wastewater for irrigation during the full irrigation season. The estimated wetland size takes into account the need for dikes, buffer zones, access and service roads, and other related structures. This design eliminates the need for additional storage of treated effluent or any need to discharge treated effluent directly to the Crooked River. The wetlands would be constructed with the treated effluent first passing through a treatment wetland of the proper size and then into one of several wetlands varying in size from 15 to 30 acres.

CONCLUSION

Completing improvements to the City’s wastewater collection, treatment, and disposal systems, as outlined herein, will allow the City to meet its anticipated 20-year design criteria for its wastewater system. These improvements will also utilize a more recently developed disposal method by utilizing wetlands similar to natural wetland systems for disposal of treated wastewater. This solution will allow treated wastewater to be routed to the disposal area year-round eliminating the need to discharge treated wastewater directly to the Crooked River, which is anticipated to improve the overall environmental health and water quality of the Crooked River watershed.
**FARMLAND CONVERSION IMPACT RATING**

**PART I (To be completed by Federal Agency)**

<table>
<thead>
<tr>
<th>Name Of Project</th>
<th>Federal Agency Involved</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prineville Wastewater System Improvements</td>
<td>USDA Rural Development/DEQ</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Proposed Land Use</th>
<th>County And State</th>
</tr>
</thead>
<tbody>
<tr>
<td>Municipal--Wastewater</td>
<td>Crook County, Oregon</td>
</tr>
</tbody>
</table>

**PART II (To be completed by NRCS)**

<table>
<thead>
<tr>
<th>Does the site contain prime, unique, statewide or local important farmland?</th>
<th>Yes □ □ No</th>
<th>Acres Irrigated</th>
<th>Average Farm Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>(If no, the FPPA does not apply – do not complete additional parts of this form).</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Major Crop(s)</td>
<td>Name Of Land Evaluation System Used</td>
<td>Acres: %</td>
<td>Date Land Evaluation Returned By NRCS</td>
</tr>
<tr>
<td></td>
<td>Name Of Local Site Assessment System</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PART III (To be completed by Federal Agency)**

<table>
<thead>
<tr>
<th>A. Total Acres To Be Converted Directly</th>
<th>Site A</th>
<th>Site B</th>
<th>Site C</th>
<th>Site D</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>240.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
<td>B. Total Acres To Be Converted Indirectly</td>
<td>0.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Total Acres In Site</td>
<td>240.0</td>
<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>

**PART IV (To be completed by NRCS) Land Evaluation Information**

| A. Total Acres Prime And Unique Farmland |        |        |        |
| B. Total Acres Statewide And Local Important Farmland |        |        |        |
| C. Percentage Of Farmland In County Or Local Govt. Unit To Be Converted |        |        |        |
| D. Percentage Of Farmland In Govt. Jurisdiction With Same Or Higher Relative Value |        |        |        |

**PART V (To be completed by NRCS) Land Evaluation Criterion**

| Relative Value Of Farmland To Be Converted (Scale of 0 to 100 Points) | 0 | 0 | 0 | 0 |

**PART VI (To be completed by Federal Agency)**

<table>
<thead>
<tr>
<th>Site Assessment Criteria (These criteria are explained in 7 CFR 658.5(b))</th>
<th>Maximum Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Area In Nonurban Use</td>
<td></td>
</tr>
<tr>
<td>2. Perimeter In Nonurban Use</td>
<td></td>
</tr>
<tr>
<td>3. Percent Of Site Being Farmed</td>
<td></td>
</tr>
<tr>
<td>4. Protection Provided By State And Local Government</td>
<td></td>
</tr>
<tr>
<td>5. Distance From Urban Builtup Area</td>
<td></td>
</tr>
<tr>
<td>6. Distance To Urban Support Services</td>
<td></td>
</tr>
<tr>
<td>7. Size Of Present Farm Unit Compared To Average</td>
<td></td>
</tr>
<tr>
<td>8. Creation Of Nonfarmable Farmland</td>
<td></td>
</tr>
<tr>
<td>9. Availability Of Farm Support Services</td>
<td></td>
</tr>
<tr>
<td>10. On-Farm Investments</td>
<td></td>
</tr>
<tr>
<td>11. Effects Of Conversion On Farm Support Services</td>
<td></td>
</tr>
<tr>
<td>12. Compatibility With Existing Agricultural Use</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL SITE ASSESSMENT POINTS**

|                                                      | 160 | 0   | 0   | 0   | 0   |

**PART VII (To be completed by Federal Agency)**

| Relative Value Of Farmland (From Part V)                      | 100  | 0   | 0   | 0   | 0   |
| Total Site Assessment (From Part VI above or a local site assessment) | 160  | 0   | 0   | 0   | 0   |

**TOTAL POINTS (Total of above 2 lines)**

|                                                      | 260  | 0   | 0   | 0   | 0   |

<table>
<thead>
<tr>
<th>Site Selected:</th>
<th>Date Of Selection</th>
<th>Was A Local Site Assessment Used?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Yes □ □ No □ □</td>
</tr>
</tbody>
</table>

Reason For Selection:

*(See Instructions on reverse side)*

Form AD-1006 (10-83)

This form was electronically produced by National Production Services Staff
Farmland Classification—Prineville Area, Oregon
(Prineville Wastewater System)

<table>
<thead>
<tr>
<th>Area of Interest (AOI)</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Soils</th>
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<tbody>
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</table>

<table>
<thead>
<tr>
<th>Soil Ratings</th>
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</thead>
<tbody>
<tr>
<td>Not prime farmland</td>
<td></td>
</tr>
<tr>
<td>All areas are prime farmland</td>
<td></td>
</tr>
<tr>
<td>Prime farmland if drained</td>
<td></td>
</tr>
<tr>
<td>Prime farmland if protected from flooding or not frequently flooded during the growing season</td>
<td></td>
</tr>
<tr>
<td>Prime farmland if irrigated</td>
<td></td>
</tr>
<tr>
<td>Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season</td>
<td></td>
</tr>
<tr>
<td>Prime farmland if irrigated and drained</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAP LEGEND</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Political Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Cities</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Water Features</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Oceans</td>
<td></td>
</tr>
<tr>
<td>Streams and Canals</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Transportation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Rails</td>
<td></td>
</tr>
<tr>
<td>Interstate Highways</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MAP INFORMATION</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Map Scale: 1:10,800 if printed on A size (8.5&quot; x 11&quot;) sheet.</td>
<td></td>
</tr>
<tr>
<td>The soil surveys that comprise your AOI were mapped at 1:24,000.</td>
<td></td>
</tr>
<tr>
<td>Please rely on the bar scale on each map sheet for accurate map measurements.</td>
<td></td>
</tr>
<tr>
<td>Source of Map: Natural Resources Conservation Service</td>
<td></td>
</tr>
<tr>
<td>Coordinate System: UTM Zone 10N NAD83</td>
<td></td>
</tr>
<tr>
<td>This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.</td>
<td></td>
</tr>
<tr>
<td>Soil Survey Area: Prineville Area, Oregon</td>
<td></td>
</tr>
<tr>
<td>Survey Area Data: Version 7, Sep 2, 2010</td>
<td></td>
</tr>
<tr>
<td>Date(s) aerial images were photographed: 7/24/2005</td>
<td></td>
</tr>
<tr>
<td>The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.</td>
<td></td>
</tr>
</tbody>
</table>
Farmland Classification

<table>
<thead>
<tr>
<th>Map unit symbol</th>
<th>Map unit name</th>
<th>Rating</th>
<th>Acres in AOI</th>
<th>Percent of AOI</th>
</tr>
</thead>
<tbody>
<tr>
<td>001</td>
<td>Water</td>
<td>Not prime farmland</td>
<td>0.0</td>
<td>0.0%</td>
</tr>
<tr>
<td>014</td>
<td>Powder silt loam, 0 to 2 percent slopes</td>
<td>Prime farmland if irrigated</td>
<td>78.4</td>
<td>31.0%</td>
</tr>
<tr>
<td>016</td>
<td>Crooked-Stearns complex, 0 to 2 percent slopes</td>
<td>Farmland of statewide importance</td>
<td>57.6</td>
<td>22.7%</td>
</tr>
<tr>
<td>020</td>
<td>Boyce silt loam, 0 to 2 percent slopes</td>
<td>Prime farmland if irrigated and drained</td>
<td>90.7</td>
<td>35.8%</td>
</tr>
</tbody>
</table>

Subtotals for Soil Survey Area: 226.7% 89.5%
Totals for Area of Interest: 253.2 100.0%

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Tie-break Rule: Lower
Catie Kerns

From: Catie Kerns
Sent: Thursday, September 02, 2010 3:37 PM
To: Karen Quigley (karen.quigley@state.or.us)
Subject: City of Prineville Wastewater Treatment Plant Tribal Coordination

Ms. Quigley,

The City of Prineville is in the process of pursuing funding to update their existing wastewater facilities to meet capacity and eliminate the need to discharge effluent into the Crooked River. Anderson-Perry & Associates is in the process of preparing an Environmental Report to comply with Rural Developments NEPA requirements on the City’s behalf.

In accordance with state law, I would like to notify the appropriate tribal governments of the proposed project and request their review from a cultural resources perspective. Could you please inform me which tribal governments should be contacted? If you need additional information about the site please feel free to contact me.

Site Information:
Legal Address: T14S R15E Sections 26, 35, and 36 (Northwest of the City of Prineville)

 Regards,

Catie Kerns
Natural Resources Specialist
Anderson Perry & Associates, INC.
1901 N Fir Street / P.O. Box 1107
La Grande OR 97850
541-963-8309 phone
541-963-5456 fax
ckerns@andersonperry.com
http://www.andersonperry.com
Cliff,

I am requesting an ORNHIC database search regarding the occurrence of any listed species in the vicinity of Prineville, OR, for a wastewater systems improvement project. The legal description for the project is Range 15E, Township 14S, Sections 26, 35, and 36. I have attached a vicinity map to assist your investigation. Thank you for your help in this matter. Please let me know if you would like more information regarding this project.

Thanks,
Sue

Sue Brady
Biologist
Anderson Perry & Associates, Inc.
1901 Fir Street / P.O. Box 1107
La Grande, Oregon 97850-0935
541-963-8309 phone
541-963-5456 fax
sbrady@andersonperry.com
http://www.andersonperry.com
5.3 Conversation Records with Agencies
Comments from the DEQ Air Quality Program on the City of Prineville Oregon Wastewater System Improvements

See attached Letter regarding the wastewater system improvements

<<PRINEVILLE WSI.pdf>>

This project entails:

The construction of a new wetlands as a new disposal system

The operation will involve construction digging trenches and moving soil around this activity does not require an air permit.

There are dust rules that do apply.

DEQ Rules:

http://www.deq.state.or.us/regulations/rules.htm

- Look at Division 208 VISIBLE EMISSIONS AND NUISANCE REQUIREMENTS

Water is usually used to control dust from the work site.

Also make sure that dirt is not dragged on to the pavement because that can cause a dust problem. By installing water bars to spray both sides to the truck will wash the dirt off of the tires of the trucks.

- If a rock crusher is to be used at the site, the owner and operator of the rock crusher will possibly need an air permit to operate. Ask the rock crusher operator if they have an air permit-if any questions give them my name and phone number.

- In moving soil on farmland you may run across Cement Asbestos Pipe, used as irrigation pipe in years past, most likely not.

DEQ regulates and removal and disposal of asbestos containing materials.

Division 248

Take a look at the DEQ Asbestos Program website:

http://www.deq.state.or.us/aq/asbestos/index.htm
Here is the site on How to deal with Asbestos Water Pipe:

http://www.deq.state.or.us/aq/asbestos/remove.htm

Look at How to Remove Non-Friable Asbestos-Containing AC Water Pipe If you run across this give me a call. Do not brake the asbestos pipe up remove it according to the regulations!

Regarding demolition of a structure Look at the DEQ’s Building Survey Requirement-Basically get an asbestos survey

http://www.deq.state.or.us/aq/factsheets/06-NWR-008-ASBSurvey.pdf

Also look at the following:

Asbestos Advisory for Building Owners and Operators

http://www.deq.state.or.us/aq/factsheets/06-NWR-007-ASBOwners.pdf

Asbestos Advisory for Construction Contractors

http://www.deq.state.or.us/aq/factsheets/06-NWR-009-ASBConstruction.pdf

Asbestos Advisory-Important information you need before you demolish a building

http://www.deq.state.or.us/aq/factsheets/06-NWR-010-ASBDEMO.pdf

Suggestion: I would highly suggest getting OSHA involved with the construction project under a consultation. Give OSHA a call.

If you have any questions give me a call or drop me an email

Frank Messina

DEQ Eastern Region Bend Office

475 NE Bellevue Drive, Suite 110

Bend, OR 97701

Office: (541) 388-6146

Direct Phone: (541) 633-2019

Fax: (541) 388-8283

Email: messina.frank@deq.state.or.us
Catie Kerns

From: WEST Jayne [WEST.JAYNE@deo.state.or.us]
Sent: Friday, October 01, 2010 1:53 PM
To: Catie Kerns
Cc: WEST Jayne
Subject: RE: Prineville-Wastewater System Improvements

Catie-in response to Anderson-Perry's request for comments on the proposed wetlands project, the only thing I would like to emphasize is that the city will continue to be required to hold an NPDES permit for their wastewater treatment facility and will be subject to temperature requirements and any other Wasteload Allocations as a result of a TMDL.

Thank you for the chance to comment.

-----Original Message-----
From: Catie Kerns [mailto:ckerns@andersonperry.com]
Sent: Friday, October 01, 2010 1:19 PM
To: WEST Jayne
Subject: Fw: Prineville-Wastewater System Improvements

Jayne-
See Brett's reply below. Let me know if you have any other questions. Thanks.

----- Original Message ----- 
From: Brett Moore
To: Catie Kerns
Sent: Fri Oct 01 13:11:54 2010
Subject: RE: Prineville-Wastewater System Improvements

The treatment wetlands (3 day detention) will be lined but the disposal wetlands will not be lined.

Brett Moore, P.E.
Project Manager
Anderson-Perry & Associates, Inc.
1901 N Fir / P.O. Box 1107
La Grande, Oregon 97850-0939
541-963-8309 phone
541-963-5456 fax
bmoore@andersonperry.com
www.andersonperry.com

-----Original Message-----
From: Catie Kerns
Sent: Friday, October 01, 2010 12:21 PM
To: Brett Moore
Subject: Fw: Prineville-Wastewater System Improvements

Brett-
Can you provide me some feedback on this?

----- Original Message -----
Hi Catie-I can’t remember will the wetlands be lined? Thanks.

Jayne West
Water Quality Permit Specialist
(541) 633-2028
Catie Kerns  
Anderson-Perry Associates, Inc.  
1901 N. Fir Street  
P.O. Box 1107  
La Grande, Oregon 97850

Re: Species List for the City of Prineville Wastewater System Upgrade, Crook County, Oregon (HUC # 1707030510)

Dear Ms. Kerns:

On September 16, 2010, the National Marine Fisheries Service (NMFS) received your letter requesting a list of endangered, threatened, and candidate species that may be found in the vicinity of the proposed City of Prineville Wastewater System Upgrade, Crook County, Oregon.

The following species is found in the proposed action area: Middle Columbia River steelhead (Oncorhynchus mykiss). The action area does not include critical habitat for this species.

This letter constitutes the required notification of the presence of a Federally-listed threatened or endangered species or critical habitat under NMFS’ jurisdiction in the area that may be affected by the proposed project (Appendix A to Part 330, section C. 13(5)(I)).

The Pacific Fisheries Management Council, which was established under the Magnuson-Stevens Fishery Conservation and Management Act, described and identified essential fish habitat (EFH) in each of its fisheries management plans. EFH includes ‘those waters and substrates necessary to fish for spawning, breeding, feeding, or growth to maturity.’ All aquatic habitat in Washington, Oregon, and California, that was historically accessible to groundfish species, coastal pelagic species, and coho salmon, Chinook salmon, and pink salmon is designated EFH.

Please refer to section 7 of the Endangered Species Act and its implementing regulations (50 CFR Part 402) for information on interagency consultation. Additional information on ESA-listed species’ distribution, copies of Federal Register documents designating listed species status, and links to various ESA consultation policies and tools may be found on our website at: http://www.nwr.noaa.gov.
Please direct any questions regarding this letter to Ben Meyer, Branch Chief of the Willamette Basin Habitat Branch of the Oregon State Habitat Office, at 503.230.5425.

Sincerely,

Michael P. Tehan
Assistant Regional Administrator
Habitat Conservation Division
September 21, 2010

Ms. Catie Kerns  
Anderson Perry & Assoc Inc  
PO Box 1107  
La Grande, OR 97850

RE: SHPO Case No. 10-2185  
Prineville Wastewater System Improvement Proj  
14S 15E 26, 35, Prineville, Crook

Dear Ms. Kerns:

Thank you for your submission of documentation on the project referenced above. It is my understanding that the APE includes the wetlands project area (indicated in pink), and the linear segments shown as black lines on Figure 3. For above-ground historic resources, those areas appear to encompass any resources that could be affected. We have no documentation showing any resources areas specifically in the APE. However, more information about the Railroad Grade Main Line, any bridges that may be affected by the installation of the sewer lines, and any other buildings or structures that may be impacted, will need to be submitted for all features more than 50 years old.

Comments pursuant to a review for archaeological resources will be sent separately. Please feel free to contact me if you have further questions, comments or need additional assistance. In order to help us track your project accurately, please be sure to reference the SHPO case number above in all correspondence.

Sincerely,

[Signature]

Julie Osborne  
Preservation Specialist  
(503) 986-0661 or Julie.Osborne@state.or.us

As of August 2009, a redesigned form is available for Section 106 and ORS 358.653 projects. Find it on our updated and expanded Review and Compliance website: www.oregonheritage.org. Click on the "Review and Compliance" link.
Julie—

Thank you for your letter dated September 21, 2010 in response to my request for comments. I was hoping to get a bit more clarification on your note that “more information about the railroad grade main line, any bridges that may be affected by the installation of the sewer lines, and any other buildings or structures that may be impacted, will need to be submitted for all features more than 50 years old.”

What type of information are you looking for? We have hired an archeologist to survey the site. Are these features he should be looking at, photo documenting, etc?

Any further clarification would be great. Thanks for your help!

Catie Kerns
Natural Resources Specialist
Anderson Perry & Associates, INC.
1901 N Fir Street / P.O. Box 1107
La Grande OR 97850
541-963-8309 phone
541-786-3108 cell
541-963-5456 fax
ckerns@andersonperry.com
http://www.andersonperry.com
Hi Catie,

I received your project scoping letter dated September 14, 2010. I am not the appropriate regulatory project manager for Crook County, that area is handled by our Eugene office. Brian Wilson covers Crook County and would be your contact. I will forward this letter to him. If you have any other questions, let me know.

Shelly

Shelly Schmidt
Project Manager
U.S. Army Corps of Engineers
La Grande Field Office
3502 Highway 30
La Grande, Oregon 97850
Phone: 541-962-0401
Fax: 541-962-8580
michelle.r.schmidt@usace.army.mil
Operations Division  
Regulatory Branch  
Corps No. NWP-2010-535

Ms. Catie Kerns  
Anderson Perry and Associates, Inc.  
1901 N. Fir Street  
La Grande, Oregon 97850-6107

Dear Ms. Kerns:

The U.S. Army Corps of Engineers (Corps) received Anderson Perry and Associates, Inc. (APA) request for information regarding our permitting authority. APA’s project has been assigned Corps No. NWP-2010-535. Please refer to this number in all future correspondence.

Under Section 404 of the Clean Water Act, the Corps has authority to issue permits for the placement of fill or dredged material in waters of the United States. The term "waters of the United States" includes the territorial seas and tidally influenced waters up to the high tide line. "Waters" also include all other waters up to their ordinary high water mark that are part of a surface tributary system to and including navigable (non-tidal) waters of the United States. Wetlands adjacent to these waters are also "waters of the United States."

Before authorizing work under our statutory authorities, the Corps must ensure a project complies with other applicable Federal laws and regulations such as the Endangered Species Act (ESA) and Section 106 of the National Historic Preservations Act (NHPA). All actions will be coordinated with the appropriate agencies including the National Marine Fisheries Service (NMFS) and/or the U.S. Fish and Wildlife Service (USFWS), Native American Tribes (Tribes), and the State Historic Preservation Office (SHPO).

Dependent upon the location and nature of the project and its potential to affect protected species, the Corps will coordinate with the NMFS and/or the USFWS under the ESA. In most instances, the Corps will coordinate directly with those agencies, but we may require additional information from you to complete the coordination and consultation.

A cultural resource survey may be required when there is evidence, knowledge or the potential for cultural resources to be present within close proximity to a project or when a request is made by the SHPO and/or Tribes. If the Corps determines a survey is necessary, a report containing results of the site survey and other required information must be submitted for our review and approval before your project can be verified under a Nationwide Permit.
Certifications issued by the Oregon Department of Environmental Quality (DEQ) and the Oregon Department of Land Conservation and Development (DLCD) under Section 401 of the Clean Water Act and the Coastal Zone Management Act respectively may also be required.

The Corps has received advanced concurrence from the agencies listed above for a number of our general permits provided the work complies with the terms and conditions specified by that agency. The processing and evaluation of projects meeting these design qualifications are substantially expedited.

Working before obtaining a DA permit is a violation of Federal laws. Receipt of a permit from the Oregon Department of State Lands does not obviate the requirement for obtaining a DA permit prior to commencing the proposed work.

Enclosed is a permit application form for use if necessary. When we receive the completed application we can further assess APA’s permit needs.

If APA has any questions, please contact Mr. Brian Wilson at the letterhead address, by telephone at (541) 465-6765, or email brian.j.wilson@usace.army.mil.

Sincerely,

[Signature]

Kevin P. Moynahan
Chief, Regulatory Branch

Enclosure

Copy Furnished:

City of Prineville (Klam)
Catie,

Sorry for the delay in response. Below I’ve provided a species list for Crook County. Bull trout is the only ESA listed species managed by the Service in the Crooked River. Note that NOAA Fisheries manages MCR Steelhead (recently reintroduced in the Crooked River). The Service’s primary interest will be to protect water quality during construction and to ensure operational measures are in place to protect and/or maintain fish and wildlife resources along the Crooked River. The Service would like to be included in the early planning and design phase for this important project. Please contact me if you have any questions.

Question: Is this project a secondary or tertiary water treatment facility? jjc

Jerry J. Cordova
U.S. Fish and Wildlife Service
Bend Field Office
Office: 541/312-6420; Fax: 541/383-7638
Email: jerry_cordova@fws.gov
Subject: Lists of threatened and endangered species that may occur in selected Oregon counties

To Whom It May Concern:

This letter accompanies a species list(s) downloaded from our website (http://www.fws.gov/oregonfwo/Species/Lists/RequestList.asp), which shows threatened and endangered species that may occur within the area of your proposed project. The species list(s) fulfills the requirement of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 et seq.).

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems on which they depend may be conserved. Under section 7(a)(1) and 7(a)(2) of the Act and pursuant to 50 CFR 402 et seq., Federal agencies are required to utilize their authorities to carry out programs which further species conservation 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 (NEPA) (42 U.S.C. 4332 (2)(c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to the Biological Assessment be prepared to determine whether they may affect listed and proposed species or critical habitats. Recommended contents of a Biological Assessment are described in Enclosure A, as well as 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that threatened and endangered species and/or designated critical habitat may be affected by the project, the agency is required to consult with the Service following the requirements of the regulations that implement the Act (50 CFR 402).

The county species list(s) includes a list of candidate species under review for listing and those species that the Service considers "species of concern." Candidate species have no protection under the Act but are included for consideration as it is possible candidates could be listed prior to the completion of your project. Species of concern are those taxa whose conservation status is of concern to the Service (many previously known as Category 2 candidates), but for which further information is still needed.
If a proposed project may affect only candidate species or species of concern, you are not required to perform a Biological Assessment or evaluation or consult with the Service. However, the Service recommends minimizing impacts to these species to the extent possible in order to prevent potential future conflicts. Therefore, if early evaluation of the project indicates that it is likely to adversely impact a candidate species or species of concern, your agency may wish to request technical assistance from this office.

If your project includes communications or cell towers, you should be aware that migratory birds, another of our Trust Resources, can suffer significant mortality from collisions with towers. Further information on this issue can be obtained from the following web sites: http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/towers.htm and http://www.towerkill.com. Please refer to the recently approved Service Guidance on the Siting, Construction, Operation and Decommissioning of Communications Towers (http://www.fws.gov/migratorybirds/CurrentBirdIssues/Hazards/towers/comtow.html). We recommend its application to relevant projects. We also recommend the tower site evaluation form (found on the guidance webpage), which you may find useful in helping to determine the effects of your proposed project to endangered species and migratory birds.

The bald eagle (Haliaeetus leucocephalus) has recovered and was removed from the Federal List of Endangered and Threatened Wildlife and Plants in 2007. The bald eagle occurs in all Oregon counties, and the species continues to be protected under the Bald and Golden Eagle Protection Act. For more information on bald eagles, and for the Service’s “National Bald Eagle Management Guidelines,” please visit the Service’s regional webpage devoted to the bald eagle (http://www.fws.gov/pacific/eagle/).

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to investigate opportunities for incorporating conservation of threatened and endangered species into project planning processes as a means of complying with the Act. Please include a copy of this letter and any species lists downloaded from our website with any request for consultation or correspondence about your project that you submit to our office. If you have questions regarding your responsibilities under the Act, please contact Cat Brown at (503) 231-6179. For questions regarding listed salmon and steelhead trout, please contact NOAA Fisheries Service, 525 NE Oregon Street, Suite 500, Portland, Oregon 97232, (503) 230-5400.

Enclosure A
RESPONSIBILITIES OF FEDERAL AGENCIES UNDER SECTION 7(a) and (c) OF THE ENDANGERED SPECIES ACT

SECTION 7(a) Consultation/Conference

Section 7(a) of the Act requires:

1. Federal agencies to utilize their authorities to carry out programs to conserve endangered and threatened species;
2. Consultation with the U.S. Fish and Wildlife Service (Service) when a Federal action may affect a listed endangered or threatened species or designated critical habitat to insure that any action authorized, funded or carried out by a Federal agency is not likely to jeopardize the continued existence of listed species or result in the destruction or adverse modification of designated critical habitat. The process is initiated by the Federal agency after it has determined if its action may affect a listed species; and
3. Conference with the Service when a Federal action is likely to jeopardize the continued existence of a proposed species or result in destruction or adverse modification of proposed critical habitat.

SECTION 7(c) Preparation of a Biological Assessment

Section 7(c) of the Act requires Federal agencies or their designees to prepare a Biological Assessment (BA) for construction projects.\textsuperscript{1} For actions that are not construction projects, we recommend that a biological evaluation similar to a BA be prepared to evaluate the effects of the proposed project on listed and proposed species and critical habitats. The purpose of the BA or biological evaluation is to identify listed and proposed species which are likely to be affected by a proposed project. The process is initiated by a Federal agency by requesting a list of threatened and endangered species and critical habitats. The BA or biological evaluation should be completed within 180 days after its initiation (or within such a time period as is mutually agreeable). If the BA is not initiated within 90 days of receipt of the species list, the accuracy of the species list should be informally verified with the Service. No irreversible commitment of resources is to be made during the preparation of the BA which would foreclose reasonable and prudent alternatives to jeopardy to listed species. Planning, design, and administrative actions may be taken; however, no construction may begin.

A biological assessment or biological evaluation should include the following information:

1. Description of proposed action (project).
   Describe the following and attach any relevant maps, diagrams, or designs;
   - Who is proposing the action?
   - Where is the action? Be as specific as possible. Include maps, county, township, range, stream, and any other pertinent information.
   - What is the proposed action? Describe what is planned, the objectives of the action, include designs, diagrams, and best management practices applied, etc.
   - How is the action going to be implemented? Give specific details, such as what type

\textsuperscript{1}A construction project (or other undertaking having similar physical impacts) is a major Federal action significantly affecting the quality of the human environment as referred to in NEPA (42 U.S.C. 4332. (2)c.
of equipment is used, how the action area will be accessed, etc.

- **When** will the action be implemented?

2. **Description of listed and proposed species and critical habitat, status, distribution and habitat use by the species in the project area.**
   Identify which listed, proposed and candidate species and critical habitats may potentially be affected (beneficially or adversely) by the action. Describe how the species use the project area. Assistance with this information can be obtained from local offices of the Service.

3. **Description of the action area.**
   Describe all areas affected by the proposed project. The action area refers to the area directly or indirectly affected by the proposed action; this area will usually be larger than the project footprint. Include site inspection or survey data, views of recognized experts (e.g., ODFW), and literature reviews.

4. **Effects of the proposed action on listed and proposed species and designated or proposed critical habitat.**
   Describe in detail the effects of the action on the species and their habitats including direct and indirect effects, as well as effects that are interrelated and interdependent effects. Summarize your analysis of all project effects.

5. **Description of measures to minimize effects to listed species, and proposed project monitoring.**
   Describe methods to be used to avoid, minimize and correct adverse short and long-term effects. Describe what will be monitored, who will monitor and the frequency of monitoring.

6. **Determination of effect.**
   Clearly state your final effects determination for each listed and proposed species and designated and proposed critical habitat. Effects determinations may be:
   - no effect
   - may affect, not likely to adversely affect (appropriate for actions that have only beneficial, insignificant, or discountable effects)
   - may affect, likely to adversely affect (appropriate for actions with effects to listed species or designated critical habitat that are not entirely insignificant, discountable or wholly beneficial)

7. **Attachments.**
   Attachments should include all relevant information supporting the above categories such as maps, project design, drawings, specifications, pollution control plan, photos of project site and adjacent area, site survey data, and literature cited.

For more information on consultation under section 7 of the Endangered Species Act, visit the Service’s national consultation website at http://www.fws.gov/endangered/consultations/index.html.
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

LISTED SPECIES

Fish
_Inland:_
Bull trout _Salvelinus confluentus_ CH T

PROPOSED SPECIES

None
No Proposed Endangered Species PE
No Proposed Threatened Species PT

CANDIDATE SPECIES

Birds
Greater sage-grouse _Centrocercus urophasianus_

Reptiles and Amphibians
_Inland:_
Columbia spotted frog _Rana luteiventris_

SPECIES OF CONCERN

Mammals
_Terrestrial:_
Pygmy rabbit
Pallid bat
Townsend’s western big-eared bat
Spotted bat
California wolverine
Silver-haired bat
Small-footed myotis bat
Long-eared myotis bat
Long-legged myotis bat
Yuma myotis bat
Preble’s shrew _Brachylagus idahoensis_  
_Antrozous pallidus pacificus_
_Corynorhinus townsendii townsendii_
_Euderma maculatum_
_Gulo gulo luteus_
_Lasionycteris noctivagans_
_Myotis ciliolabrum_
_Myotis evotis_
_Myotis volans_
_Myotis yumanensis_
_Sorex preblei_

Birds
Northern goshawk
Western burrowing owl
Ferruginous hawk
Black tern
Olive-sided flycatcher
Willow flycatcher
Yellow-breasted chat
Lewis’ woodpecker _Accipiter gentilis_
_Athene cunicularia hypugaea_
_Buteo regalis_
_Chillonias niger_
_Contopus cooperi_
_Empidonax traillii adastus_
_Icteria virens_
_Melanerpes lewis_
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

Mountain quail
White-headed woodpecker

Reptiles and Amphibians
Northern sagebrush lizard

Fish
Pacific lamprey

Invertebrates
Insects:
Cascades apatanian caddisfly

Plants
Henderson ricegrass
Wallowa ricegrass
Henderson's bentgrass
Estes' artemisia
Bastard kentrophyta
Crenulate grape fern
Mountain grape fern
Peck's mariposa lily
Cusick's buckwheat
Ochoco lomatium
disappearing monkeyflower
Howell's thelypody

Achnatherum hendersonii
Achnatherum wallowaensis
Agrostis hendersonii
Artemisia ludoviciana ssp. estesii
Astragalus tegetariae
Botrychium crenulatum
Botrychium montanum
Calochortus longebarratus var. peckii
Eriogonum cusickii
Lomatium ochocense
Mimulus evanescens
Thelypodium howellii ssp. howellii

DELISTED SPECIES

Birds
American Peregrine falcon
Bald eagle

Falco peregrinus anatum
Haliaeetus leucocephalus

Definitions:

Listed Species: An endangered species is one that is in danger of extinction throughout all or a significant portion of its range. A threatened species is one that is likely to become endangered in the foreseeable future.

Proposed Species: Taxa for which the Fish and Wildlife Service or National Marine Fisheries Service has published a proposal to list as endangered or threatened in the Federal Register.

Candidate Species: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

Species of Concern: Taxa whose conservation status is of concern to the U.S. Fish and Wildlife Service (many previously known as Category 2 candidates), but for which further information is still needed. Such species receive no legal protection and use of the term does not necessarily imply that a species will eventually be proposed for listing.
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

Delisted Species: A species that has been removed from the Federal list of endangered and threatened wildlife and plants.

Key:

E Endangered
I Threatened
CH Critical Habitat has been designated for this species
PE Proposed Endangered
PT Proposed Threatened
PCH Critical Habitat has been proposed for this species

Notes:

Marine & Anadromous Species: Please consult the National Marine Fisheries Service (NMFS) (http://www.nmfs.noaa.gov/pr/species/) for marine and anadromous species. The National Marine Fisheries Service (NMFS) manages mostly marine and anadromous species, while the U.S. Fish and Wildlife Service manages the remainder of the listed species, mostly terrestrial and freshwater species.

Marine Turtle Conservation and Management: All six species of sea turtles occurring in the U.S. are protected under the Endangered Species Act of 1973. In 1977, NOAA Fisheries and the U.S. Fish and Wildlife Service signed a Memorandum of Understanding to jointly administer the Endangered Species Act with respect to marine turtles. NOAA Fisheries has the lead responsibility for the conservation and recovery of sea turtles in the marine environment and the U.S. Fish and Wildlife Service has the lead for the conservation and recovery of sea turtles on nesting beaches. For more information, see the NOAA Fisheries webpage on sea turtles http://www.nmfs.noaa.gov/pr/species/turtles/.

Gray Wolf: On February 27, 2008, the Service published a final rule that established a distinct population segment of the gray wolf (Canis lupis) in the northern Rocky Mountains (which includes a portion of Eastern Oregon, east of the centerline of Highway 395 and Highway 78 north of Burns Junction and that portion of Oregon east of the centerline of Highway 95 south of Burns Junction). Any wolves found west of this line in Oregon belong to the conterminous USA population [see 73 FR 10514]. Gray wolves in Oregon are State-listed as endangered, regardless of location.
September 30, 2010

Sue Brady  
Anderson-Perry & Associates, Inc.  
1901 N Fir  
La Grande, OR 97850-0539

Dear Ms. Brady:

Thank you for requesting information from the Oregon Biodiversity Information Center (ORBIC). We have conducted a data system search for rare, threatened and endangered plant and animal records for your Prineville Wastewater Systems Improvements Project in T14S R15E, Sections 26, 35, and 36, WM.

Two (2) element occurrence records were noted within a two-mile radius of your project and are included on the enclosed computer printout.

Please remember that a lack of rare element information from a given area does not necessarily indicate there are no significant elements present, only that there is no information known to us from the site. To ensure there are no significant elements present that may be affected by your project, you should inventory the site during the appropriate season.

This data is confidential and for the specific purposes of your project and is not to be distributed. Please also note that as our database is continually updated, the data in this report should be considered current for a maximum of one year from the date it was generated and should not be cited thereafter.

Please forward the included invoice to the appropriate party in your organization for payment.

If you need additional information or have any further questions, please do not hesitate to contact me.

Sincerely,

Cliff Alton  
Conservation Information Assistant  
cliff.alton@pdx.edu  
503.725.9952

encl.: invoice (H-093010-CWA02)  
computer printout and data key
Hi Catie,

Thank you for the follow up message on the Prineville Wastewater Project. According to Ron Raney, we'll have to wait on doing the AD-1006 (Farmland Conversion Impact Rating) until we have a finalized engineering drawing of the plan, with impact areas calculated to the tenth acre. That way, we'll be better able to assess the actual converted farmland areas for size and location with the soil survey.

Thanks,
Dave

From: Catie Kerns [mailto:ckerns@andersonperry.com]
Sent: Monday, September 27, 2010 3:16 PM
To: Trochlell, David - La Grande, OR
Subject: Prineville FPP

Dave—

Here is some preliminary info from the engineer for the Prineville Wastewater project:

We don't have any drawings yet. We haven't surveyed so we don't know how deep the excavation will be. It will be excavation on about ¼ of it and fill on the other ¾ to provide a flatter wetland area. The number of wetland cells will depend on the slope of the ground. There will be no areas between the wetlands except for a common dike with a road on top of it.

I would think that the wetland area could be farmed in the future, if needed. So the dike areas would be the only areas that would not be able to be farmed. This would be between 10 and 20% of the total area.

I will provide more info as it becomes available. Thanks Dave!

Catie Kerns
Natural Resources Specialist
Anderson Perry & Associates, INC.
1901 N Fir Street / P.O. Box 1:07
La Grande OR 97850
541-963-8309 phone
541-786-3108 cell
541-963-5456 fax
ckerns@andersonperry.com
http://www.andersonperry.com
This memorandum confirms the conversation between Sue Brady and Brett Hodgson in which it was said:

- Steelhead:
  - Reintroduced fry release 2008.
  - No returning adults, yet.
  - Juveniles are present year-round in Prineville.

- Red band trout:
  - Spawning adults are present March through June in Prineville.
  - Juveniles are present year-round in Prineville.
  - Resident

- Summer Chinook:
  - Spawning adults are present September through October in Prineville.
  - Juveniles are present year-round in Prineville
  - Anadromous

Action to be taken / decisions made:


Signed

Distribution:

() Owner
() Project Manager
() Project Representative

() Contractor
(X) File No. 1260-06-32
This memorandum confirms the conversation between Catie Kerns and Randy Nice in which it was said:

- Construction activity needs to adhere to all OSHA regulations.
- Excavation at a depth of 20 feet requires an Engineer.
- Call for consultation with the general Contractor 1 to 2 months prior to starting construction.
- Technical questions should be directed to (800) 922-2689.
Date 10 / 08 / 10   Time ______________________ ( ) AM ( ) PM
( ) Call to  (X) Call from   Name: Julie Lancaster

Company: Crook County Department of Environmental Health   Phone No. ______________________
Project: Prineville Wastewater Treatment Facility   Job No.: 1260-06
Regarding: Wells/Septic in Old Mill/Crestview Area

This memorandum confirms the conversation between Catie Kerns and Julie Lancaster in which it was said:

• There are no confirmed cases of health problems from well contamination in the Old Mill and Crestview areas.
• There is record of high nitrates in the wells in those areas.

Action to be taken / decisions made:


Signed ______________________

Distribution:

( ) Owner   ( ) Contractor
( ) Project Manager   (X) File No. 1260-06-32
( ) Project Representative   () ______________________
RECORD OF TELEPHONE OR VERBAL CONVERSATION

Date 10 / 07 / 10   Time: 3:00 ( ) AM (X) PM
(X) Call to ( ) Call from Name: Jerry Brummer

Company: City of Prineville, Oregon   Phone No.: (541) 408-2467
Project: Prineville Wastewater Treatment Facility   Job No.: 1260-06
Regarding: Transportation During Construction

This memorandum confirms the conversation between Catie Kerns and Jerry Brummer in which it was said:
In town:
  • Will work one block at a time.
  • Will provide a detour if possible or flaggers to maintain traffic flow.
  • The Contractor must have a Traffic Control Plan.
  • Will issue notices in the newspaper and go door to door.
  • In commercial areas public meetings are held and public input gathered.

Highway 307 access:
  • Will get ODOT Permit to use access to wetland site from Highway 307.

Action to be taken / decisions made:

________________________________________

Signed

Distribution:
( ) Owner   ( ) Contractor
( ) Project Manager   (X) File No. 1260-06-32
( ) Project Representative   ( )
( )
This memorandum confirms the conversation between Catie Kerns and Josh Smith in which it was said:

- There is no City noise ordinance.
- The City dust ordinance is very loose. It states that dust cannot cause a "nuisance."
- It is complaint based.

Action to be taken / decisions made:

Signed

Catie Kerns

Distribution:

- Owner
- Project Manager
- Project Representative
- Contractor
- File No. 1260-06-30
This memorandum confirms the conversation between Sue Brady and Priscilla Johnson in which it was said:

- Dottie Morissette no longer works for the SWCD.
- Priscilla Johnson replaced her.
- Crook County SWCD has no comments or concerns with the project at the moment.
- They would like to be kept in the loop as the project develops.
This memorandum confirms the conversation between Sue Brady and Karen Quigley in which it was said:

She suggested that we contact:

- Confederated Tribes of the Warm Springs Reservation
- Burns Paiute Tribes
- Klamath Tribes

Signed

Distribution:

( ) Owner
( ) Project Manager
( ) Project Representative
( ) Contractor

File No. 1260-06-32

This memorandum confirms the conversation between Sue Brady and Chris Mundy in which it was said:
- He has no specific concerns/comments at this time.
- Coordinate with Dave Trochelle for specifics.

Signed

Distribution:
( ) Owner
( ) Project Manager
( ) Project Representative
( ) Contractor
( ) File No. 1260-06-32
( ) __________________________
This memorandum confirms the conversation between Sue Brady and Bethany Harrington in which it was said:

- No big concerns at this time, as long as:
  - Wetlands are delineated (for new wetland area as well as pipelines).
  - Any grading functional changes/other impacts to wetlands and waters are addressed.
This memorandum confirms the conversation between Catie Kerns and Dennis Griffin in which it was said:

- Need STP at disposal site. Work with RPA to minimize areas to potential sites. No need in historic floodplain.
- Collection System:
  - Proposed lines bisect two known sites: 35CR638 and 35CR1225 (Crestview and Rimrock areas).
  - Will need pedestrian survey for lines; may need STP at known sites.
  - Need Permit to survey.

Signed

Catie Kerns

Distribution:

<table>
<thead>
<tr>
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<th>Owner</th>
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<tr>
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Contractor

File No. 1260-06-32

_________________
This memorandum confirms the conversation between Catie Kerns and Bill Zelenka in which it was said:

For the disposal site:

- The Conditional Use Permit for the existing facility will need to be modified.
- There are no noise or dust ordinances in EFU.
- The floodplain maps (new) should be available.

Action to be taken / decisions made:


Signed

Catie Kerns

Distribution:

( ) Owner
( ) Project Manager
( ) Project Representative

( ) Contractor
(X) File No. 1260-06-30

File No. 1260-06-30
This memorandum confirms the conversation between Catie Kerns and Jerry Brummer in which it was said:

- The City has asbestos cement (AC) pipe in town; the sewers and water installed in 1960s to 1970s.
- The City always follows OARs when encountering AC pipe.
- Disposal Site: Unlikely to have AC Pipe. Flood irrigation prior to City purchase in 2006. The City installed a pivot irrigation system with buried main line.

Action to be taken / decisions made:

Signed

Distribution:

() Owner
() Project Manager
() Project Representative
() Contractor
() File No. 1260-06-32
()
Dear Catie,

Thank you for your letter of September 14, 2010 in reference to the City of Prineville's proposed Wastewater System Improvements project. The area where this project is proposed is high probability for subsurface resources. A pedestrian survey is recommended for this project. Once the report is provided for review we will determine if further comment is prudent for this proposed project area.

Thank you,
Sally

Warm Springs Geo Visions
P.O. Box 460
Warm Springs, Oregon 97751
541-553-3555
Section 6.0
Exhibits
User Remarks:
retrieved from http://www.fws.gov/wetlands/Data/ Mapper.html
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

LISTED SPECIES

Fish
Inland:
Bull trout
Salvelinus confluencus

PROPOSED SPECIES

None
No Proposed Endangered Species
No Proposed Threatened Species

CANDIDATE SPECIES

Birds
Greater sage-grouse
Centrocercus urophasianus

Reptiles and Amphibians
Inland:
Columbia spotted frog
Rana luteiventris

SPECIES OF CONCERN

Mammals
Terrestrial:
Pygmy rabbit
Brachylagus idahoensis
Pallid bat
Antrozous pallidus pacificus
Townsend's western big-eared bat
Corynorhinus townsendii townsendii
Spotted bat
Euderma maculatum
California wolverine
Gulo gulo luteus
Silver-haired bat
Lasionycteris noctivagans
Small-footed myotis bat
Myotis ciliolabrum
Long-eared myotis bat
Myotis evotis
Long-legged myotis bat
Myotis volans
Yuma myotis bat
Myotis yumanensis
Preble's shrew
Sorex preblei

Birds
Northern goshawk
Accipiter gentilis
Western burrowing owl
Athena cunicularia hypugaea
Ferruginous hawk
Buteo regalis
Black tern
Chlidonias niger
Olive-sided flycatcher
Contopus cooperi
Willow flycatcher
Empidonax traillii adustus
Yellow-breasted chat
Icteria virens
Lewis' woodpecker
Melanerpes lewis

Last Updated September 11, 2010 (1:38:36 PM)
U.S. Fish and Wildlife Service, Oregon Fish and Wildlife Office
Page 1 of 3
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES AND SPECIES OF CONCERN UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

Mountain quail  Oreortyx pictus
White-headed woodpecker  Picoides albolarvatus

Reptiles and Amphibians
Northern sagebrush lizard  Sceloporus graciosus graciosus

Fish
Pacific lamprey  Lampetra tridentata

Invertebrates
Insects:
Cascades apataniar caddisfly  Apatania tava

Plants
Henderson ricegrass  Achnatherum hendersonii
Wallowa ricegrass  Achnatherum wallowaensis
Henderson's bentgrass  Agrostis hendersonii
Estes' artemisia  Artemisia ludoviciana ssp. estesii
Bastard kentrophyta  Astragalus vegetarioides
Crenulate grape fern  Botrychium crenulatum
Mountain grape fern  Botrychium montanum
Peck's mariposa lily  Calochortus longebartatus var. peckii
Cusick's buckwheat  Eriogonum cusickii
Ochoco lomatium  Lomatium ochocense
disappearing monkeyflower  Mimulus evanescens
Howell's thelypody  Thelypodium howellii ssp. howellii

DELISTED SPECIES

Birds
American Peregrine falcon  Falco peregrinus anatum
Bald eagle  Haliaeetus leucocephalus

Definitions:

Listed Species: An endangered species is one that is in danger of extinction throughout all or a significant portion of its range. A threatened species is one that is likely to become endangered in the foreseeable future.

Proposed Species: Taxa for which the Fish and Wildlife Service or National Marine Fisheries Service has published a proposal to list as endangered or threatened in the Federal Register.

Candidate Species: Taxa for which the Fish and Wildlife Service has sufficient biological information to support a proposal to list as endangered or threatened.

Species of Concern: Taxa whose conservation status is of concern to the U.S. Fish and Wildlife Service (many previously known as Category 2 candidates), but for which further information is still needed. Such species receive no legal protection and use of the term does not necessarily imply that a species will eventually be proposed for listing.
FEDERALLY LISTED, PROPOSED, CANDIDATE SPECIES
AND SPECIES OF CONCERN
UNDER THE JURISDICTION OF THE FISH AND WILDLIFE SERVICE
WHICH MAY OCCUR WITHIN CROOK COUNTY, OREGON

Delisted Species: A species that has been removed from the Federal list of endangered and threatened wildlife and plants.

Key:

E   Endangered
T   Threatened
CH  Critical Habitat has been designated for this species
PE  Proposed Endangered
PT  Proposed Threatened
PCH Critical Habitat has been proposed for this species

Notes:

Marine & Anadromous Species: Please consult the National Marine Fisheries Service (NMFS) (http://www.nmfs.noaa.gov/pr/species/) for marine and anadromous species. The National Marine Fisheries Service (NMFS) manages mostly marine and anadromous species, while the U.S. Fish and Wildlife Service manages the remainder of the listed species, mostly terrestrial and freshwater species.

Marine Turtle Conservation and Management: All six species of sea turtles occurring in the U.S. are protected under the Endangered Species Act of 1973. In 1977, NOAA Fisheries and the U.S. Fish and Wildlife Service signed a Memorandum of Understanding to jointly administer the Endangered Species Act with respect to marine turtles. NOAA Fisheries has the lead responsibility for the conservation and recovery of sea turtles in the marine environment and the U.S. Fish and Wildlife Service has the lead for the conservation and recovery of sea turtles on nesting beaches. For more information, see the NOAA Fisheries webpage on sea turtles http://www.nmfs.noaa.gov/pr/species/turtles/.

Gray Wolf: On February 27, 2008, the Service published a final rule that established a distinct population segment of the gray wolf (Canis lupis) in the northern Rocky Mountains (which includes a portion of Eastern Oregon, east of the centerline of Highway 395 and Highway 78 north of Burns Junction and that portion of Oregon east of the centerline of Highway 95 south of Burns Junction). Any wolves found west of this line in Oregon belong to the conterminous USA population [see 73 FR 10514]. Gray wolves in Oregon are State-listed as endangered, regardless of location.
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1. The ESA defines a "species" to include any distinct population segment of any species of vertebrate fish or wildlife. For Pacific salmon, NOAA Fisheries Service considers an evolutionarily significant unit, or "ESU," a "species" under the ESA. For Pacific steelhead, NOAA Fisheries Service has delineated distinct population segments (DPPs) for consideration as "species" under the ESA.
Areas proposed in 2010 (blue) compared to areas designated in 2005 (red).

Legend:
- BT PCH 2010
- BT PCH Lakes 2010
- BT Final CH 2005
- BT FCH Lakes 2005
DIVISION 208

VISIBLE EMISSIONS AND NUISANCE REQUIREMENTS

340-208-0010

Definitions

The definitions in OAR 340-200-0020 and this rule apply to this division. If the same term is defined in this rule and OAR 340-200-0020, the definition in this rule applies to this division.

(1) "Abate" means to eliminate the nuisance or suspected nuisance by reducing or managing the emissions using reasonably available practices. The degree of abatement will depend on an evaluation of all of the circumstances of each case and does not necessarily mean completely eliminating the emissions.

(2) "Air Contaminant" means a dust, fume, gas, mist, odor, smoke, pollen, vapor, soot, carbon, acid or particulate matter, or any combination thereof.

(3) "Emission" means a release into the outdoor atmosphere of air contaminants.

(4) "Fuel Burning Equipment" means a boiler or process heater that burns a solid, liquid, or gaseous fuel, the principal purpose of which is to produce heat or power by indirect heat transfer.

(5) "Fugitive Emissions" means emissions of any air contaminant that escape to the atmosphere from any point or area not identifiable as a stack, vent, duct, or equivalent opening.

(6) "New source" means, for purposes of OAR 340-208-0110, any air contaminant source installed, constructed, or modified after June 1, 1970.

(7) "Nuisance" means a substantial and unreasonable interference with another's use and enjoyment of real property, or the substantial and unreasonable invasion of a right common to members of the general public.

(8) "Odor" means that property of an air contaminant that affects the sense of smell.

(9) "Special Control Area" means an area designated in OAR 340-204-0070.

(12) "Standard conditions" means a temperature of 68° Fahrenheit and a pressure of 14.7 pounds per square inch absolute.

(13) "Standard cubic foot" means the amount of gas that would occupy a volume of one cubic foot, if the gas were free of uncombined water at standard conditions. When applied to combustion flue gases from fuel, "standard cubic foot" also implies adjustment of gas volume to that which would result at a concentration of 12% carbon dioxide or 50% excess air.

NOTE: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.

[Publications: Publications referenced are available from the agency.]

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468.020 & 468A.025
Hist.: [DEQ 16, f. 6-12-70, ef. 7-11-70; DEQ 1-1984, f. & ef. 1-16-84; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 3-1996, f. & cert. ef. 1-29-96]; [DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 3-1996, f. & cert. ef. 1-29-96]; [DEQ 4-1978, f. & ef. 4-7-78; DEQ 9-1979, f. & ef. 5-3-79; DEQ 3-1980, f. & ef. 1-28-80; DEQ 14-1981, f. & ef. 5-6-81; DEQ 22-1989, f. & cert. ef. 9-26-89; DEQ 23-1991, f. & cert. ef. 11-13-91; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 10-1995, f. & cert. ef. 5-1-95; DEQ 4-1995, f. & cert. ef. 2-17-95; DEQ 10-1995, f. & cert. ef. 5-1-95; DEQ 3-1996, f. & cert. ef. 1-29-96]; [DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-021-0005, 340-021-0050, 340-030-0010; DEQ 2-2001, f. & cert. ef 2-5-01; DEQ 8-2007, f. & cert. ef. 11-8-07

Visible Emissions

340-208-0100

http://arcweb.sos.state.or.us/rules/OARs_300/OAR_340/340_208.html

10/7/2010
Applicability

OAR 340-208-0100 through 340-208-0110 apply in all areas of the state.

[NOTE: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 10-1995, f. & cert. ef. 5-1-95; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-021-0012

340-208-0110

Visible Air Contaminant Limitations

(1) Existing sources outside special control areas. No person may emit or allow to be emitted any air contaminant into the atmosphere from any existing air contaminant source located outside a special control area for a period or periods aggregating more than three minutes in any one hour which is equal to or greater than 40% opacity.

(2) New sources in all areas and existing sources within special control areas: No person may emit or allow to be emitted any air contaminant into the atmosphere from any new air contaminant source, or from any existing source within a special control area, for a period or periods aggregating more than three minutes in any one hour which is equal to or greater than 20% opacity.

(3) Exceptions to sections (1) and (2) of this rule:

(a) Where the presence of uncombined water is the only reason for failure of any source to meet the requirement of sections (1) and (2) of this rule, such sections shall not apply;

(b) Existing fuel burning equipment installed on or before June 1, 1970 that has not been modified since June 1, 1970 utilizing wood wastes and located within special control areas shall comply with the emission limitations of section (1) of this rule in lieu of section (2) of this rule.

(4) Opacity is determined in accordance with the procedures specified in the definition of "opacity".

[NOTE: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & 468A
Stats. Implemented: ORS 468A.020 & 468A.025
Hist.: DEQ 16, f. 6-12-70, ef. 7-11-70; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 3-1996, f. & cert. ef. 1-29-96; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-021-0015; DEQ 2-2001, f. & cert. ef. 2-5-01; DEQ 8-2007, f. & cert. ef. 11-8-07

340-208-0200

Applicability

OAR 340-208-0200 through 340-208-0210 apply:

(1) Within Special Control Areas, designated in OAR 340-204-0070; and

(2) In other areas when the department determines a nuisance exists and should be controlled, and the control measures are practicable.

[NOTE: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 468A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-021-0055; DEQ 2-2001, f. & cert. ef 2-5-01
340-208-0210

Requirements

(1) When fugitive emissions escape from a building or equipment in such a manner and amount as to create a nuisance or to violate any regulation, the department may order the owner or operator to abate the nuisance or to bring the facility into compliance. In addition to other means of obtaining compliance the department may order that the building or equipment in which processing, handling and storage are done be tightly closed and ventilated in such a way that air contaminants are controlled or removed before being emitted to the open air.

(2) No person may cause or permit any materials to be handled, transported, or stored; or a building, its appurtenances, or a road to be used, constructed, altered, repaired or demolished; or any equipment to be operated, without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but not be limited to the following:

(a) Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land;

(b) Application of asphalt, oil, water, or other suitable chemicals on unpaved roads, materials stockpiles, and other surfaces which can create airborne dusts;

(c) Full or partial enclosure of materials stockpiles in cases where application of oil, water, or chemicals are not sufficient to prevent particulate matter from becoming airborne;

(d) Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty materials;

(e) Adequate containment during sandblasting or other similar operations;

(f) Covering, at all times when in motion, open bodied trucks transporting materials likely to become airborne;

(g) The prompt removal from paved streets of earth or other material that does or may become airborne.

[NOTE: This rule is included in the State of Oregon Clean Air Act Implementation Plan as adopted by the Environmental Quality Commission under OAR 340-200-0040.]

Stat. Auth.: ORS 468 & ORS 458A
Stats. Implemented: ORS 468A.025
Hist.: DEQ 37, f. 2-15-72, ef. 3-1-72; DEQ 4-1993, f. & cert. ef. 3-10-93; DEQ 14-1999, f. & cert. ef. 10-14-99, Renumbered from 340-021-0060; DEQ 2-2001, f. & cert. ef 2-5-01

Nuisance Control Requirements

340-208-0300

Nuisance Prohibited

(1) No person may cause or allow air contaminants from any source subject to regulation by the department to cause a nuisance.

(2) Upon determining a nuisance may exist, the department will provide written notice to the person creating the suspected nuisance. The department will endeavor to resolve observed nuisances in keeping with the policy outlined in OAR 340-12-0026. If the department subsequently determines a nuisance exists under 340-208-0310 and proceeds with a formal enforcement action, pursuant to chapter 340 division 12, the first day for determining penalties will be no earlier than the date of this notice.

Stat. Auth.: ORS 468, ORS 468A.010 & ORS 468A.025
Stats. Implemented: ORS 468A.010 & ORS 468A.025
Hist.: DEQ 2-2001, f. & cert. ef. 2-5-01

340-208-0310

Determining Whether A Nuisance Exists

(1) In determining a nuisance, the department may consider factors including, but not limited to, the following:
(a) Frequency of the emission;

(b) Duration of the emission;

(c) Strength or intensity of the emissions, odors or other offending properties;

(d) Number of people impacted;

(e) The suitability of each party's use to the character of the locality in which it is conducted;

(f) Extent and character of the harm to complainants;

(g) The source's ability to prevent or avoid harm.

(2) Compliance with a Best Work Practices Agreement that identifies and abates a suspected nuisance constitutes compliance with OAR 340-208-0300 for the identified nuisance. For sources subject to 340-216-0020 or 340-218-0020, compliance with specific permit conditions that results in the abatement of a nuisance associated with an operation, process or other pollutant emitting activity constitutes compliance with 340-208-0300 for the identified nuisance. For purposes of this section, "permit condition" does not include the general condition prohibiting the creation of nuisances.

Stat. Auth.: ORS 468, ORS 468A.010 & ORS 468A.025
Stats. Implemented: ORS 468A.010 & ORS 468A.025
Hist.: DEQ 2-2001, f. & cert. ef. 2-5-01

340-208-0320

Best Work Practices Agreement

(1) A person may voluntarily enter into an agreement with the department to implement specific practices to abate the suspected nuisance. This agreement may be modified by mutual consent of both parties. This agreement will be an Order for the purposes of enforcement under OAR 340 division 12.

(2) For any source subject to OAR 340-216-0020 or 340-218-0020, the conditions outlined in the Best Work Practices Agreement will be incorporated into the permit at the next permit renewal or modification.

(3) This agreement will remain in effect unless or until the department provides written notification to the person subject to the agreement that:

(a) The agreement is superseded by conditions and requirements established later in a permit;

(b) The department determines the activities that were the subject of the agreement no longer occur; or

(c) The department determines that further reasonably available practices are necessary to abate the suspected nuisance.

(4) The agreement will include one or more specific practices to abate the suspected nuisance. The agreement may contain other requirements including, but not limited to:

(a) Monitoring and tracking the emission of air contaminants;

(b) Logging complaints and the source's response to the complaint;

(c) Conducting a study to propose further refinements to best work practices.

(5) The department will consult, as appropriate, with complainants with standing in the matter throughout the development, preparation, implementation, modification and evaluation of a Best Work Practices Agreement. The department will not require that complainants identify themselves to the source as part of the investigation and development of the Best Work Practices Agreement.

Stat. Auth.: ORS 468, ORS 468A.010 & ORS 468A.025
Stats. Implemented: ORS 468A.010 & ORS 468A.025
Hist.: DEQ 2-2001, f. & cert. ef. 2-5-01
340-208-0400

Masking of Emissions

No person may cause or permit the installation or use of any device or use of any means designed to mask the emission of an air contaminant that causes or is likely to cause detriment to health, safety, or welfare of any person or otherwise violate any other regulation or requirement.

Stat. Auth.: ORS 468; ORS 468A.010; and ORS 468A.025
Stats. Implemented: ORS 468A.010 and ORS 468A.025
Hist.: DEQ 2-2001, f. & cert. ef. 2-5-01

340-208-0450

Particle Fallout Limitation

No person may cause or permit the emission of particulate matter larger than 250 microns in size at sufficient duration or quantity as to create an observable deposition upon the real property of another person when notified by the department that the deposition exists and must be controlled.

Stat. Auth.: ORS 468, ORS 468A.010 & ORS 468A.025
Stats. Implemented: ORS 468A.010 & ORS 468A.025
Critical Groundwater Allocations

Stage Gulch Critical Groundwater Area
Click here (PDF 15 KB) for the annual groundwater allocation for 2006.

Butter Creek Critical Groundwater Area
Click here (PDF 19 KB) for the annual groundwater allocation for 2006.
### Well Log Query Results

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**Additional Information:**
- **Well Type:** Various types of wells indicated.
- **Flow Water:** Varies from 0 to 73.0 feet.
- **Compensated Depth:** Ranges from 0 to 15 feet.
- **Static Water:** Varies from 0 to 66.0 feet.
- **Year:** Dates range from 1979 to 1992.
- **Completed Date:** Dates range from 1980 to 1985.
- **Received Date:** Dates range from 1980 to 1990.
- **Bonded Contractor:** Various contractors are listed.

**Contractors:**
- CLAISON, CURT
- FOX, ARCHE
- SMITH, DEREK

**Additional Notes:**
- Some wells have special services indicated.
- The table provides a comprehensive overview of well information for the specified township and range.
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Download Data
Return to Well Log Query
7.0
List of Preparers

Catie Kerns, Natural Resources Specialist – Anderson-Perry & Associates, Inc.
Sue Brady, Biologist – Anderson-Perry & Associates, Inc.
Brad Baird, P.E., Project Manager – Anderson-Perry & Associates, Inc.
8.0
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