

**Wallowa Falls Hydroelectric Project  
FERC Project No. P-308  
Updated Study Report  
(Final Technical Report)  
*For Public Review***

*Land Use*



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## ACRONYMS AND ABBREVIATIONS

CFR	<i>Code of Federal Regulations</i>
FERC	Federal Energy Regulatory Commission
Forest Plan	Wallowa-Whitman National Forest Land and Resource Management Plan
GIS	geographic information system
LWCF	Land and Water Conservation Fund
MA	Management Area
NFS	National Forest System
OPRD	Oregon Parks and Recreation Department
PM&E	Protection, Enhancement and Mitigation
PPL	Pacific Power and Light
Project	Wallowa Falls Hydroelectric Project
Updated Study Report	Updated Study Report - Land Use
USFS	United States Forest Service
WWNF	Wallowa-Whitman National Forest



## EXECUTIVE SUMMARY

This *Updated Study Report - Land Use* (Final Technical Report) assesses the effects of the Wallowa Falls Hydroelectric Project: Federal Energy Regulatory Commission (FERC) Project No. P-308 (Project) on land management and use and Project consistency with federal and local land use and management plans in accordance with *Code of Federal Regulations* Title 18, Conservation of Power and Water Resources. The purpose of this Updated Study Report is to inform FERC, stakeholders and PacifiCorp of issues and findings that have been identified, collected, and synthesized during relicensing to date. In addition, this Report identifies needs that might be considered during a new license term; however, discussions in this document should not be interpreted as potential protection, mitigation, and enhancement (PM&E) measures. The information contained in the Study Progress Report (PacifiCorp 2012a) was used to produce this Updated Study Report and will be considered along with the results of other relicensing studies to develop proposed PM&E measures in the final license application that take into account other resource needs in addition to land use.

The Updated Study Report consists of the following four components:

- A land ownership inventory
- A land use inventory
- Identification of applicable federal and local land use and resource management plans
- An analysis of the consistency of Project facilities and operations with federal and local land use and resource management plans

The components are summarized below.

### ES.1 Land Ownership

The project was initially constructed in 1921 by the Enterprise Electric Company and the original license was issued on June 27, 1924. The Project is located on PacifiCorp land and National Forest System (NFS) land administered by the Wallowa-Whitman National Forest (WWNF). The southern two-thirds of the FERC Project boundary is within the WWNF. The northern one third of the Project is located on PacifiCorp land and is surrounded by additional PacifiCorp land outside of the Project boundary. PacifiCorp leases 12 acres of land in two different areas near the Project to the Oregon Parks and Recreation Department (OPRD). One of the areas, the Little Alps Day use Area, is immediately east of the FERC Project boundary and has been leased to the OPRD by PacifiCorp since 1954 for public recreational use. Northeast of the Little Alps Day Use Area, and across the Joseph- Wallowa Lake Highway, is the Wallowa Lake State Park maintenance facility which is also leased to the OPRD. Land north of, and across the West Fork Wallowa River from, the Project is privately owned. This area includes a seven acre parcel owned by the Blue Mountain Council of the Boy Scouts of America (Blue Mountain Council).

## ES.2 Land Use

The southeastern two thirds of the FERC Project boundary is located within the WWNF in a portion of the WWNF that is used for conservation, recreation and hydroelectric energy production (and has been since the 1920's when the Project was constructed). The East Fork Trail passes through this area and serves as a gateway into the Eagle Cap Wilderness (whose boundary is 0.25 mile southeast of the FERC Project boundary). Except for one area along the East Fork Trail from which Project facilities can be seen, the Project is not visible from areas within the WWNF that are accessed by most recreationists and is not visible from the Eagle Cap Wilderness. Most of the area along the East Fork Trail that is within the WWNF and the portion that is on PacifiCorp has an undeveloped, natural character.

After the Project exits the WWNF it continues northwest through the East Fork Wallowa River Canyon until it enters the upper Wallowa Lake valley. Once in the upper Wallowa Lake valley land use in the study area intensifies. Land uses within and adjacent to the FERC Project boundary include power production (the Project), power transmission (Project and non-Project transmission lines), transportation (the turnaround and vehicle parking along both sides of the Joseph-Wallowa Lake Highway) and recreation (the Wallowa Lake Trailhead, WWNF maintained trails that pass through PacifiCorp lands to access the WWNF, the Little Alps Day Use Area and the Pacific Park Campground.

## ES.3 Federal and Local Land Use and Resource Management Plans

There are two entities that are responsible for managing lands and/or resources in the Project area. They are the WWNF and Wallowa County. The WWNF is managed under the *Wallowa-Whitman National Forest Land and Resource Management Plan* (Forest Plan) that became final in 1990 (USFS, 1990). A revised plan that will include the WWNF and two other nearby national forests is currently being developed by the USFS under the Blue Mountains Forest Plan Revision. The revised plan was scheduled to be released for public review and comment in 2013, but as of the date of this Report, no date for adoption has been set.

The Forest Plan classified the portion of the WWNF in which the FERC Project boundary is located as Backcountry Management Area. Lands in this classification are managed to emphasize opportunities for dispersed recreation and are to remain relatively natural and undeveloped. No specific management direction for hydroelectric power facilities is provided in this management area classification. The WWNF issued a special-use permit to Pacific Power and Light Company (a subsidiary of PacifiCorp) on February 20, 1987 authorizing the Wallowa Falls Hydroelectric Project to occupy WWNF lands. Per license Article 101, the special-use permit was filed with FERC on February 27, 1987. The 1987 special-use permit expired on December 31, 1991. A new special-use permit for the project was issued to PacifiCorp by the WWNF (Eagle Cap Ranger District) on December 14, 1993. The 1993 special-use permit is valid until December 31, 2016.

The Project is located entirely within Wallowa County, which has land use planning and enforcement jurisdiction of all nonfederal land within the county. The Project is located

within an area of the county that is unincorporated. Three land use designation zones have been assigned to lands that the FERC Project boundary passes through. They are as follows:

- Resort Commercial Recreation
- Resort Park
- Park Restricted

Power generation facilities are allowed in all of these zones as conditional uses.

#### ES 4 Consistency of Project Facilities and Operations with Applicable Land Use and Management Plans.

The portion of the Project that is located within the WWNF is within an area that has been classified in the Forest Plan as Backcountry. One of the management directives for this classification, or management area, is to emphasize opportunities for dispersed recreation activities. Two routes (the East Fork Trail and the forebay access road) that provide recreational access into the part of the WWNF and Eagle Cap Wilderness accessed via the East Fork Wallowa River drainage pass through PacifiCorp land. The East Fork Trail begins on PacifiCorp land near the Wallowa Lake Trailhead (also located on PacifiCorp land) and crosses through the FERC Project boundary several times before entering the WWNF. The forebay access road is entirely located within the proposed FERC Project boundary. The road is used to some degree by recreationists in the summer, but is an important winter access for recreationists entering the WWNF because it allows them to avoid dangerous avalanche chutes that are present above parts of the East Fork Trail during periods of heavy snowpack. Because PacifiCorp and the WWNF have worked cooperatively to establish a trailhead and trails on PacifiCorp land that are used to access the WWNF and Eagle Cap Wilderness, it can be stated that the Project supports the Backcountry Management Area directive of providing opportunities for dispersed recreation by providing access to the WWNF and Eagle Cap Wilderness from the Lake Wallowa area. By granting special use permits to the Project for many years, the Project has been, and is considered to be, an approved WWNF use.

As mentioned above in ES.3 power generation facilities and power transmission are allowed as conditional uses in all three of the county land use designations that the Project passes through. Therefore, the Project is consistent with the *Wallowa County Comprehensive Plan* (Wallowa County, 2003).



## 1.0 STUDY OBJECTIVES AND DESCRIPTION

PacifiCorp Energy (PacifiCorp) plans to file an application for a new license for the Wallowa Falls Hydroelectric Project (Project), Federal Energy Regulatory Commission (FERC) Project No. P-308, on the East Fork Wallowa River, West Fork Wallowa River and Royal Purple Creek in Wallowa County, Oregon. The project was initially constructed in 1921 by the Enterprise Electric Company and the original license was issued on June 27, 1924. The current license will expire on February 28, 2016. The Project has a generation capacity of 1,100 kilowatts and is located on private land owned by PacifiCorp and federal lands managed by the Wallowa-Whitman National Forest (WWNF).

This *Updated Study Report - Land Use* (Final Technical Report) describes one of several studies conducted by PacifiCorp to support the relicensing of the Project in accordance with FERC's Integrated Licensing Process. As part of the FERC Integrated Licensing Process, prospective license applicants are required to submit relevant resource study plans (Code of Federal Regulations [CFR], Title 18, Part 5.11). Per 18 CFR §5.11(d) (1), the land use study requires a description of recreational and non-recreational land use and management of lands within and adjacent to the FERC Project boundary and an identification of Project inconsistencies with applicable land use plans.

The objectives of this Study Progress Report include addressing these requirements through the documentation of existing land ownership and uses within, and adjacent to, the FERC Project boundary. In addition, this Updated Study Report identifies applicable federal and local land use and management plans and evaluates the consistency of Project facilities and operations with those plans.

## 2.0 BACKGROUND DESCRIPTION

This section provides background information that:

- Defines the study area
- Describes the nexus between Project facilities and operations and land use, land ownership and land management
- Identifies the applicable federal, state and local land use and resource management plans

### 2.1 Study Area Definition

The study area encompasses the lands within and adjacent to the proposed FERC Project boundary (see Figure 1). It includes lands owned and managed by PacifiCorp, lands owned by PacifiCorp and leased to the State of Oregon (Oregon Parks and Recreation Department), and National Forest System (NFS) lands managed by the WWNF. These lands contain a variety of land uses and are managed under different land and resource management plans to meet varying land use and resource management objectives.

As stated in the Pre-Application Document (PacifiCorp, 2011), the current Exhibit G for the Project was never revised to include several Project facilities that changed, or were added, since the current FERC license was issued in 1993. As a result, these facilities are not actually within the current FERC Project boundary. The facilities include the forebay access road and portions of the tailrace. It is PacifiCorp's assumption that a revised Project boundary will include the forebay access road and other Project features missing from the current boundary. PacifiCorp is therefore treating these Project facilities as though they are within the FERC Project boundary in this and all other documents related to relicensing the Project. The FERC Project boundary depicted in Figures 1, 2 and 3 includes the forebay access road and the portions of the tailrace mentioned previously.

### 2.2 Nexus to Project

In accordance with 18 CFR §5.11(d)(4), this Updated Study Report explains the nexus between Project facilities and operations and their potential effects on land use and consistency with land use and resource management plans. Potential direct and indirect effects on land use and ownership within the study area as well as the potential inconsistency of Project facility and operations with applicable land use and resources management plans are examined in this Report.

### 2.3 Applicable Federal, State, and Local Land Use and Management Plans

18 CFR §5.11(d)(2) requires that relicensing studies “address any known resource management goals of the agencies or Indian tribes with jurisdiction over the resource to be studied.” Two entities, the WWNF and Wallowa County, manage lands in which the Project is located. Both have developed plans that contain goals and other directives that guide the use of the lands they are responsible for. The WWNF is managed under the

*Wallowa-Whitman National Forest Land and Resource Management Plan* (Forest Plan) that became final in 1990 (USFS, 1990). A revised plan that will include the WWNF and two other nearby national forests is currently being developed by the USFS under the Blue Mountains Forest Plan Revision. At the time the Study Progress Report was written, the revised plan was scheduled to be released for public review and comment in 2013, but as of the date of this writing, no date for adoption has been set. The Project is located entirely within Wallowa County. The county adopted the *Wallowa County Comprehensive Plan* in 2003 (Wallowa County, 2003) and has adopted land use ordinances applicable to the Project in the years after the comprehensive plan was adopted.

### 3.0 METHODS

As required in 18 CFR §5.11(b)(1) and §5.11(d)(5), this section provides a description of the study methodology that was used to obtain data and draw conclusions related to meeting the objectives of this Study Progress Report. The methods were developed in consultation with stakeholders over a two-year period. Local agency staff from the WWNF and Wallowa County reviewed and approved the study plan that was developed to guide the development of this Study Progress Report. The following describes the methods that were used to obtain data and draw conclusions for each of the three objectives.

#### 3.1 Document Existing Land Ownership and Use on Lands within the Study Area

Data related to land use and ownership were obtained from the PacifiCorp geographic information system (GIS) databases (which were obtained from the WWNF and Wallowa County); discussions with PacifiCorp, WWNF and OPRD staff; and site visits.

#### 3.2 Identify Applicable Land Use and Resource Management Plans

18 CFR §5.11(d) (2) requires that “any known resource management goals for the agencies or Indian tribes with jurisdiction of the resource to be studied” be identified. The two relevant land use and or resource management plans are the *Wallowa-Whitman National Forest Land and Resource Management Plan* (Forest Plan; USFS, 1990) and the *Wallowa County Comprehensive Plan* (Wallowa County, 2003). The two plans were obtained from the two entities. There are no tribal or other plans with management goals applicable to lands in the study area.

#### 3.3 Evaluate the Consistency or Inconsistency of Project Facilities and Operations with Land Use in the Study Area and Applicable Land Use and Management Plans

Conclusions regarding the consistency or inconsistency of Project facilities and operations with existing land use in the study area as well as consistency or inconsistency with the goals and policies of relevant land use and resource management plans were described in the Study Progress Report for Land Use (PacifiCorp 2012a). The WWNF and Wallowa County did not provide comments related to the conclusions expressed in the Report. It is assumed that the WWNF agreed with the findings described in Section 4.2.1 Consistency with the Wallowa-Whitman National Forest Land and Resource Management Plan and that Wallowa County agreed with the conclusions described in Section 4.2.2 Consistency with the Wallowa County Comprehensive Plan.

## 4.0 RESULTS

### 4.1 Existing Conditions

The study area for this Report consists of lands and waters within and adjacent to the FERC Project boundary. The upriver end of the Project begins within the WWNF near the confluence of Royal Purple Creek and the East Fork Wallowa River. It continues downriver in a northwesterly direction through the narrow and steep East Fork Wallowa River canyon and exits the WWNF upriver from the mouth of the canyon. After leaving the WWNF the Project enters and remains on PacifiCorp owned land. After leaving the East Fork Wallowa River canyon, the Project continues through the upper end of the broad Wallowa Lake valley to its terminus at the West Fork Wallowa River. The downriver terminus is approximately 1 mile south of the southern end of Wallowa Lake. The Project passes through lands that are owned by two entities and used in different ways. The following discusses land ownership and land use in the study area as well as relevant land use and management plans.

#### 4.1.1 Land Ownership

The FERC Project boundary is located on NFS land administered by the WWNF and land owned by PacifiCorp (see Figure 1). The southeastern two thirds of the FERC Project boundary are located within the WWNF. The northwestern third of the FERC Project boundary is contained in PacifiCorp land and, with one exception, is surrounded by non-Project PacifiCorp land. The northwestern edge of the FERC Project boundary is the West Fork Wallowa River. Across the river from the FERC Project boundary are privately owned lands, owned by the Blue Mountain Council of the Boy Scouts of America (Blue Mountain Council). This land was donated by Pacific Power and Light (PPL) to the Blue Mountain Council for a camp (Wa-La-Moot-Kin-Lodge, 2012). PPL is now doing business as Pacific Power and is a subsidiary of PacifiCorp. As a result of a series of events (fires and flooding, among others), this parcel is no longer an active scout camp, but is used in a limited fashion by the Blue Mountain Council.

PacifiCorp leases 12 acres of land in two different areas near the Project to the OPRD. One of the areas, the Little Alps Day Use Area, is immediately east of the FERC Project boundary. It has been leased to the OPRD since 1954. Northeast of the Little Alps Day Use Area, and across the Joseph- Wallowa Lake Highway, is the Wallowa Lake State Park maintenance facility which is also leased to the OPRD by PacifiCorp.

#### 4.1.2 Land Use

As seen in Figure 2, the southeastern two thirds of the FERC Project boundary is located within the WWNF. This portion of the WWNF is used for conservation, recreation and hydroelectric energy production (and has been since the 1920's when the Project was constructed). The East Fork Trail passes through this area and serves as a gateway into the Eagle Cap Wilderness (whose boundary is 0.25 mile southeast of the FERC Project boundary). Most of the area along the East Fork Trail that is within the WWNF and the portion that is on PacifiCorp land has an undeveloped, natural character. Except for one area along the East Fork Trail from which Project facilities can be seen, the Project is not visible from areas within the WWNF that are accessed by most recreationists. It is not visible from the Eagle Cap Wilderness. The Project facilities that are within the WWNF and their visibility are identified in Table 4.1-1 below.

**Table 4.1-1 Major Project Facilities Within the Wallowa-Whitman National Forest and Their Visibility from Areas Used by Recreationists**

<b>Project Facility (from upriver to downriver)</b>	<b>Visible From</b>	<b>Who Might See</b>	<b>Notes</b>
Royal Purple Diversion	Only seen if leave trails	People leaving East Fork Trail.	Very difficult to reach or see due to heavy vegetation and being off-trail.
Forebay	Seen from one location along West Fork Trail and from terminus of the forebay access road and storage area.	People hiking on East Fork Trail or on the forebay access road.	Seen from a short section of the East Fork Trail (trail). Has the appearance of a pond.
Dam Laydown and Storage Area	Seen from one location along West Fork Trail and from terminus of Project forebay access road and storage area.	People hiking on East Fork Trail or on the forebay access road.	Seen from a short section of the trail. Presence of dam and other facilities add human-made elements, some with a historic character (storage building).
Dam, Spillway, Catwalk	Seen from one location along West Fork Trail and from terminus of the forebay access road and storage area.	People hiking on East Fork Trail or on the forebay access road.	Seen from a short section of the trail. Presence of dam and other facilities add human-made elements.
Penstock	Elevated sections seen from several parts of West Fork Trail and the forebay access road.	People hiking on East Fork Trail or on the forebay access road.	Seen from a short section of the trail.
Forebay Access Road	Seen from Wallowa Lake Trailhead area and from parts of the West Fork Trail.	People hiking on East Fork Trail or on forebay access road.	Appears as a cleared road when viewed from trail.

After the Project exits the WWNF it continues northwest through the East Fork Wallowa River Canyon until it enters the upper Wallowa Lake valley. Once in the upper Wallowa Lake valley, land use in the study area intensifies. This portion of the study area contains a mixture of land uses including power production (the Project) and transmission (Project and non-Project transmission lines), transportation (the turnaround and vehicle parking along both sides of the Joseph-Wallowa Lake Highway) and recreation (the Wallowa Lake Trailhead, the Little Alps Day Use Area and the Pacific Park Campground). After exiting the East Fork Wallowa River canyon the penstock connects to the Project powerhouse. The powerhouse and substation are contained within a 0.2 acre fenced area situated at the end of the Joseph-Wallowa Lake Highway turnaround. Downriver (and northwest) of the powerhouse, the Project tailrace (and FERC Project boundary) passes through the Pacific Park Campground on its way to the West Wallowa River where the Project terminates. The Pacific Park Campground contains eight camp sites and is situated along the main and side tailrace channels. The campground is very popular and provides a more rustic camping experience compared to the camping experiences available at Wallowa Lake State Park or at the several private facilities that offer camping (or recreational vehicle sites). The lands on both side of the Pacific Park Campground and the FERC Project boundary are also recreation-oriented. To the immediate east of the Project FERC boundary is the Little Alps Day Use Area which is used for day-use oriented recreation. The west side of the Project FERC boundary (which is still PacifiCorp land) is edged by steep slopes that lead to a ridge. There are a number of user-created trails in this area that wind their way up to top of the ridge and eventually connect with WWNF trails that provide access into the Eagle Cap Wilderness. Land use in this part of the FERC Project boundary and on adjacent lands can be considered recreation-oriented.

#### 4.1.3 Land Use and Resource Management Plans

Per 18 CFR §5.11(d)(2), this section describes resource management goals of the two agencies (Wallowa County and the U.S. Forest Service) with jurisdiction over lands in the study area.

##### 4.1.3.1 *Wallowa-Whitman National Forest*

As mentioned previously, part of the Project is located within the WWNF. The current *Wallowa-Whitman National Forest Land and Resource Management Plan* became final in 1990 (USFS, 1990). The Forest Plan classified the management area of the portion of the WWNF in which the FERC Project boundary is located as Backcountry (see Figure 3). Lands in this classification are managed to emphasize opportunities for dispersed recreation and are to remain relatively natural and undeveloped. No specific management direction for hydroelectric power facilities is provided in this management area classification. The WWNF issued a special-use permit to Pacific Power and Light Company (a subsidiary of PacifiCorp) on February 20, 1987 authorizing the Wallowa Falls Hydroelectric Project to occupy WWNF lands. Per license Article 101, the special-use permit was filed with FERC on February 27, 1987. The 1987 special-use permit expired on December 31, 1991. A new special-use permit for the project was issued to

PacifiCorp by the WWNF (Eagle Cap Ranger District) on December 14, 1993. The 1993 special-use permit is valid until December 31, 2016.

#### *4.1.3.2 Wallowa County*

The Project is located entirely within Wallowa County, which has land use planning and enforcement jurisdiction of all nonfederal land within the county. The Project is located within an area of the county that is unincorporated. The southern portion of Wallowa Lake that is unincorporated has been assigned a land use plan designation of Unincorporated Resort Community. Within this land use plan designation are several zones, three of which have been assigned to lands that the FERC Project boundary is located on. The four land use plan designation zones are as follows:

- Resort Commercial Recreation
- Resort Park
- Park Restricted

The powerhouse and a portion of the lower penstock are in an area that has been assigned a land use plan designation zone of Resort Commercial Recreation. This designation was devised to provide minimum standards for commercial development and uses in areas of the county that are used primarily by visitors from outside the county. Several types of uses that are necessary for public services including power generation facilities are allowed as conditional uses.

Part of the upper penstock that is not located on NFS land is in an area with a land use plan designation of Resort Park. This zone was established to provide minimum standards for park, camp, retreat, and conference grounds and open space recreation activities. Utility or communication facilities necessary for public services, including power generation facilities and transmission, are allowed as conditional uses.

A section of the lower penstock is located on land assigned a land use plan designation zone of Park Restricted. Under this zone only those uses which are consistent with passive private and commercial recreational uses and which do not involve the construction of buildings are permitted. As is the case in the other zones, utility or communication facilities necessary for public services, including power generation facilities and transmission, are allowed as conditional uses.

The portions of the Project that are on NFS land are classified by Wallowa County as Timber Commercial. Among the conditional uses that are allowed in the Timber Production designation are power generation facilities, provided that they do not remove more than 10 acres from use as a commercial forest operation (which the Project does not because the WWNF does not manage the part of the WWNF in which the Project is located for commercial timber harvest).

## 4.2 Consistency of Project Facilities and Operations with Applicable Land Use and Management Plans.

### 4.2.1 Consistency with the *Wallowa-Whitman National Forest Land and Resource Management Plan*

Although the Project has been issued special use permits by the WWNF for many years, the presence of a hydroelectric facility in this part of the WWNF might seem to be contrary to the intent of the Forest Plan for managing lands in the vicinity of the Project. As discussed previously, the portion of the Project within the WWNF is located in an area with a management area classification of Backcountry. One of the management directives for this classification is to emphasize opportunities for dispersed recreation activities. PacifiCorp works with the WWNF to provide recreational access from the Wallowa Lake area into the WWNF and Eagle Cap Wilderness via two routes (the East Fork Trail and the forebay access road) that pass through PacifiCorp land. PacifiCorp and the WWNF have also worked cooperatively to establish the Wallowa Lake Trailhead on PacifiCorp land. The trailhead is the official starting point for accessing the WWNF and Eagle Cap Wilderness from the Wallowa Lake area. Because of these factors, it can be stated that the Project supports the Forest Plan objective of providing opportunities for dispersed recreation in areas classified as Backcountry by providing and supporting public access to the WWNF and Eagle Cap Wilderness from the Wallowa Lake area.

The Forest Plan also states that lands within the Backcountry classification are to remain relatively natural and undeveloped. Although the Project introduces a developed facility into a part of the WWNF where the Forest Plan emphasizes a natural and undeveloped landscape, the areas from which Project facilities can be viewed by the recreating public are limited (see Table 4.1-1). The Project is visible from one section of the East Fork Trail that is perhaps, several hundred feet in length. The mitigation measures that were suggested by WWNF staff and are included in the Aesthetics and Visual Resource Study Progress Report will help reduce the visibility of the Project from the trail (PacifiCorp, 2012b).

### 4.2.2 Consistency with the *Wallowa County Comprehensive Plan*

As mentioned in Section 4.1.3.2, the entire FERC Project boundary is located within Wallowa County. Power generation facilities and power transmission are allowed as conditional uses in all three of the county land use designations. Therefore, the Project is consistent with the *Wallowa County Comprehensive Plan* (Wallowa County, 2003).

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## **Figures**

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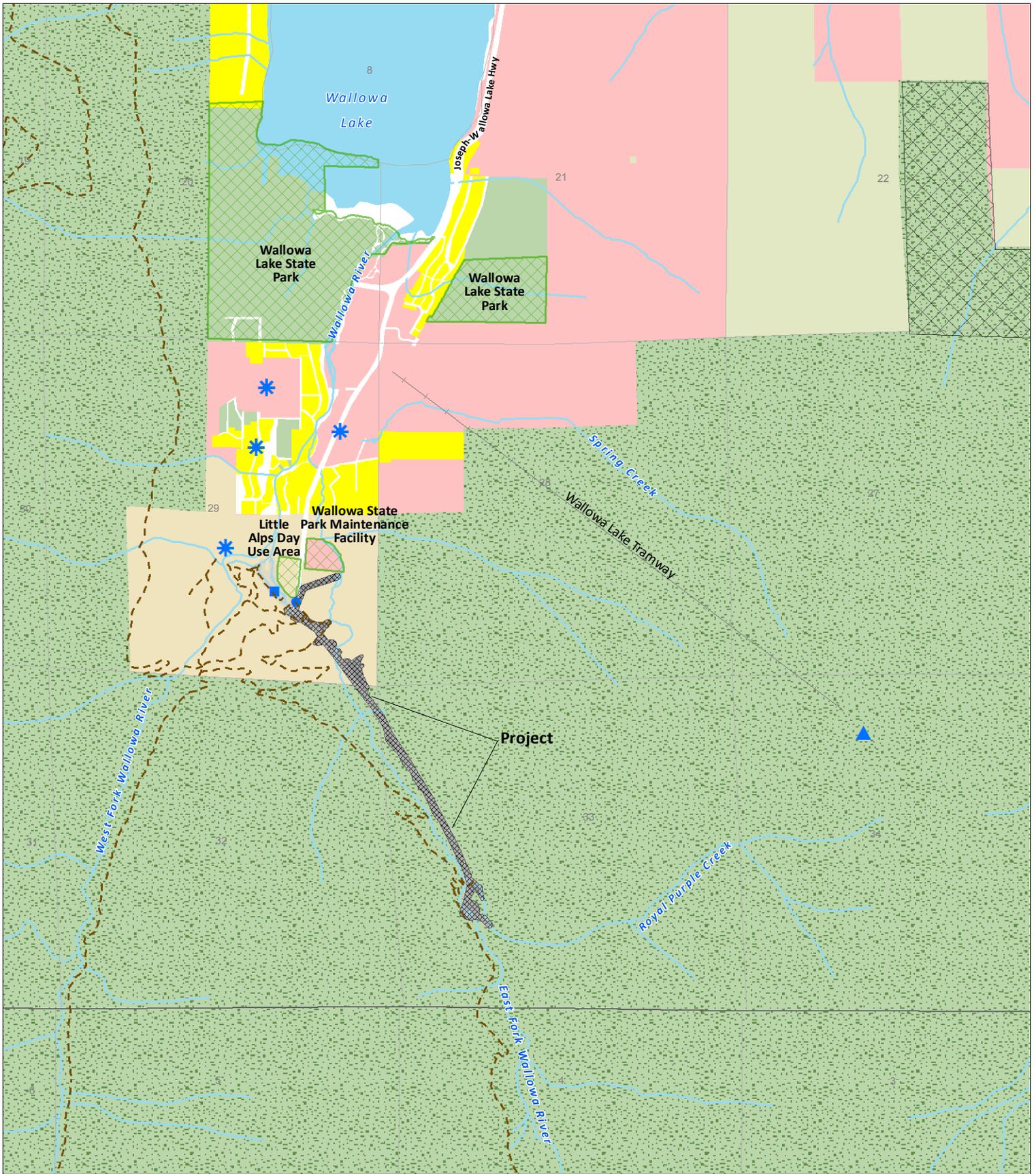
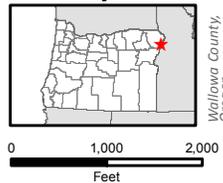


Figure L-1  
**Land Use in the Study Area**



- |  |  |                                |
|--|--|--------------------------------|
| Private Campground                                 | Section                                | State Park                     |
| Mount Howard                                       | Township Range                         | Private: Used as Recreation    |
| USFS Trailhead                                     | Road (white)                           | Mixed Use                      |
| Pacific Park Campground Area - PacifiCorp Operated | USFS Trail                             | Residential                    |
| Proposed Project Boundary (FERC)                   | Water Body                             | Public Conservation/Recreation |
| Wallowa Lake Tramway                               | USFS Land (Timber Production Emphasis) | Other Private                  |
|  | Power Generation                       | USFS Land (Conservation)       |



Data are projected in UTM Zone 11, NAD83, meters.

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No Warranty: With respect to any information, including but not limited to the Confidential Information, which a Party furnishes or otherwise discloses to another Party for the purpose of evaluating Compliance, it is understood and agreed that the Disclosing Party does not make any representations or warranties as to the accuracy, completeness or fitness for a particular purpose thereof. It is further understood and agreed that no Party or its Representatives shall have any liability or responsibility to another Party or to any other person or entity resulting from the use of any information so furnished or otherwise provided pursuant to this Agreement.

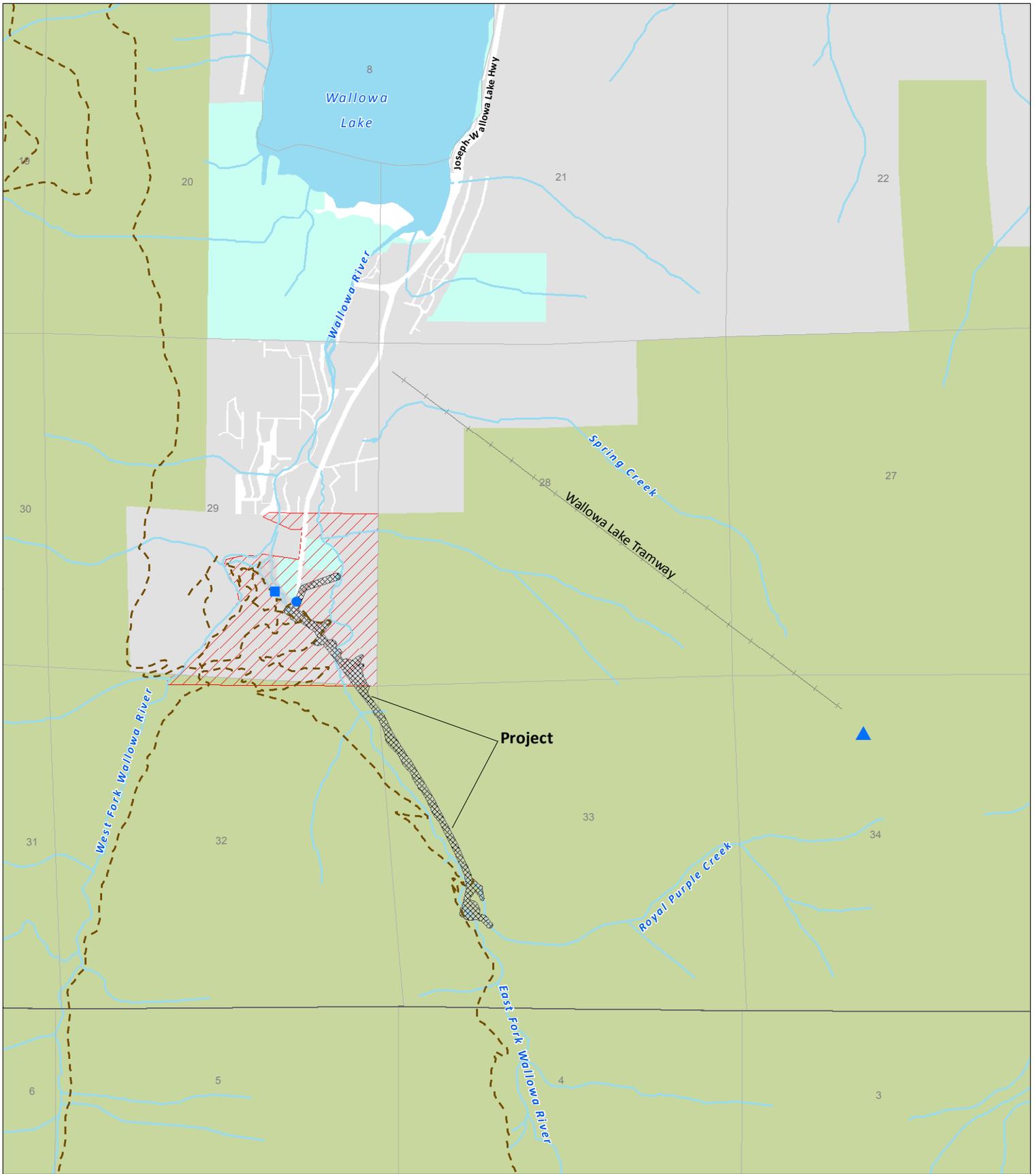
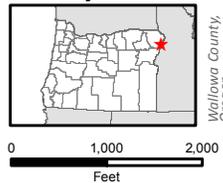


Figure L-2  
**Land Ownership  
 in Study Area**



- |  |                      |   |
|--|----------------------|---|
| Proposed Project Boundary (FERC)                   | Wallowa Lake Tramway | PacifiCorp Ownership                          |
| Mount Howard                                       | Road (white)         | PacifiCorp Land Leased to the State of Oregon |
| Lake Wallowa Trailhead (USFS)                      | Water Body           | Private Ownership                             |
| Pacific Park Campground Area - PacifiCorp Operated | Section              | Federal Ownership (U.S. Forest Service)       |
| USFS Trail   | Township Range       | State Park                                    |



Data are projected in UTM Zone 11, NAD83, meters.

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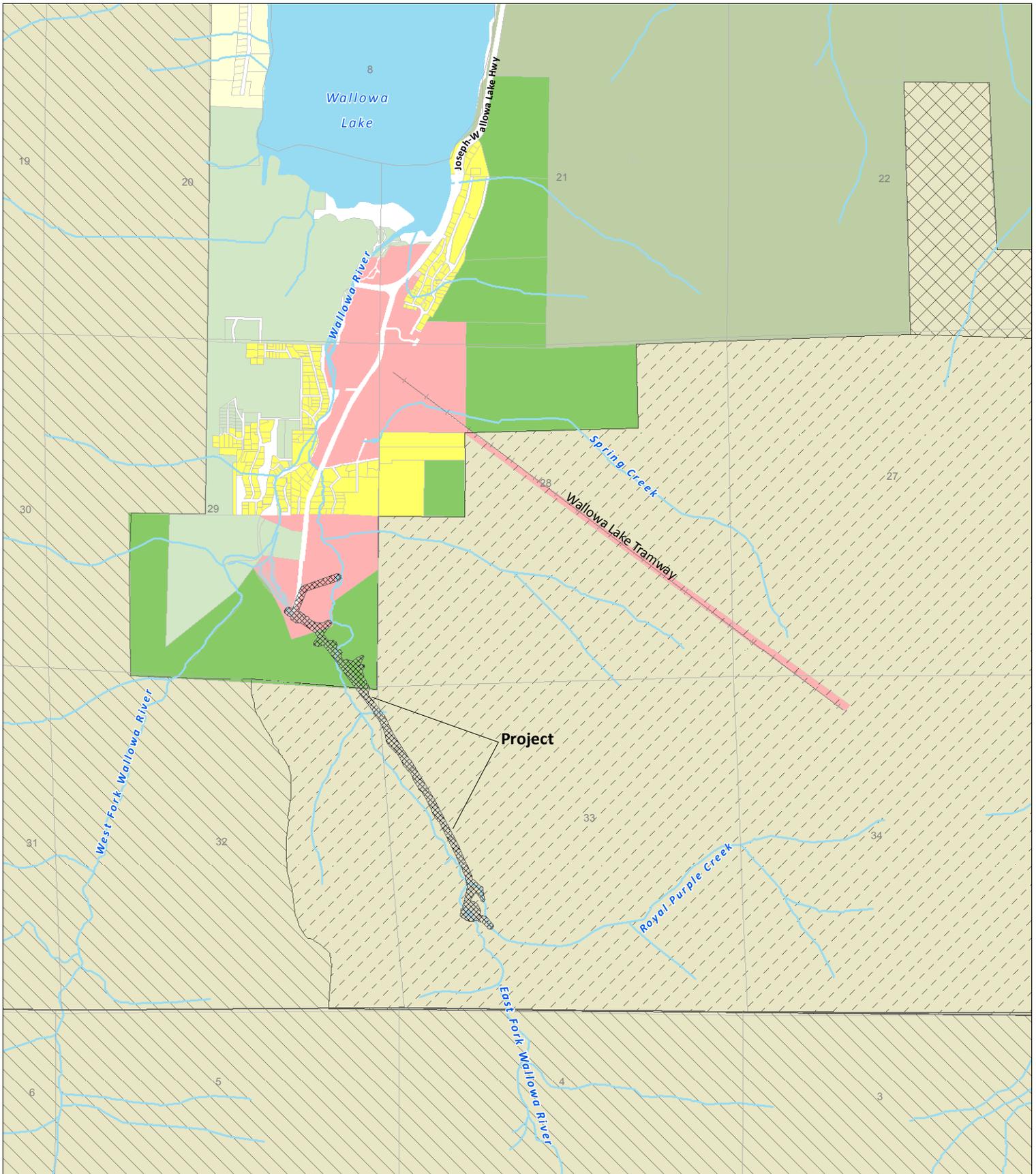


Figure L-3  
**Zoning and Management Areas**



0 1,000 2,000  
 Feet



- Proposed Project Boundary (FERC)
- Wallowa Lake Tramway
- Road (white)
- Section
- Township Range
- Water

- U.S. Forest Service Management Area**
- U.S. Forest Service
  - Backcountry
  - Wilderness
  - Timber Production Emphasis

- Wallowa County Zoning**
- Recreation Residential
  - Resort Recreational Residential
  - Resort Commercial Recreation
  - Park Restricted
  - Resort Park
  - Timber Grazing
  - Timber Commercial



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