

**UNITED STATES OF AMERICA  
BEFORE THE  
FEDERAL ENERGY REGULATORY COMMISSION**

**Klamath River Renewal Corporation**

**Project No. 14803-001**

**LICENSE SURRENDER ORDER  
LOWER KLAMATH PROJECT**

**Erosion and Sediment Control Plan**

**December 2022**

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**December 2022**



**Lower Klamath Project  
FERC Project No. 14803**

## **Erosion and Sediment Control Plan**

**Klamath River Renewal Corporation  
2001 Addison Street, Suite 317  
Berkeley, CA 94704**

December 2022

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## 1.0 Introduction

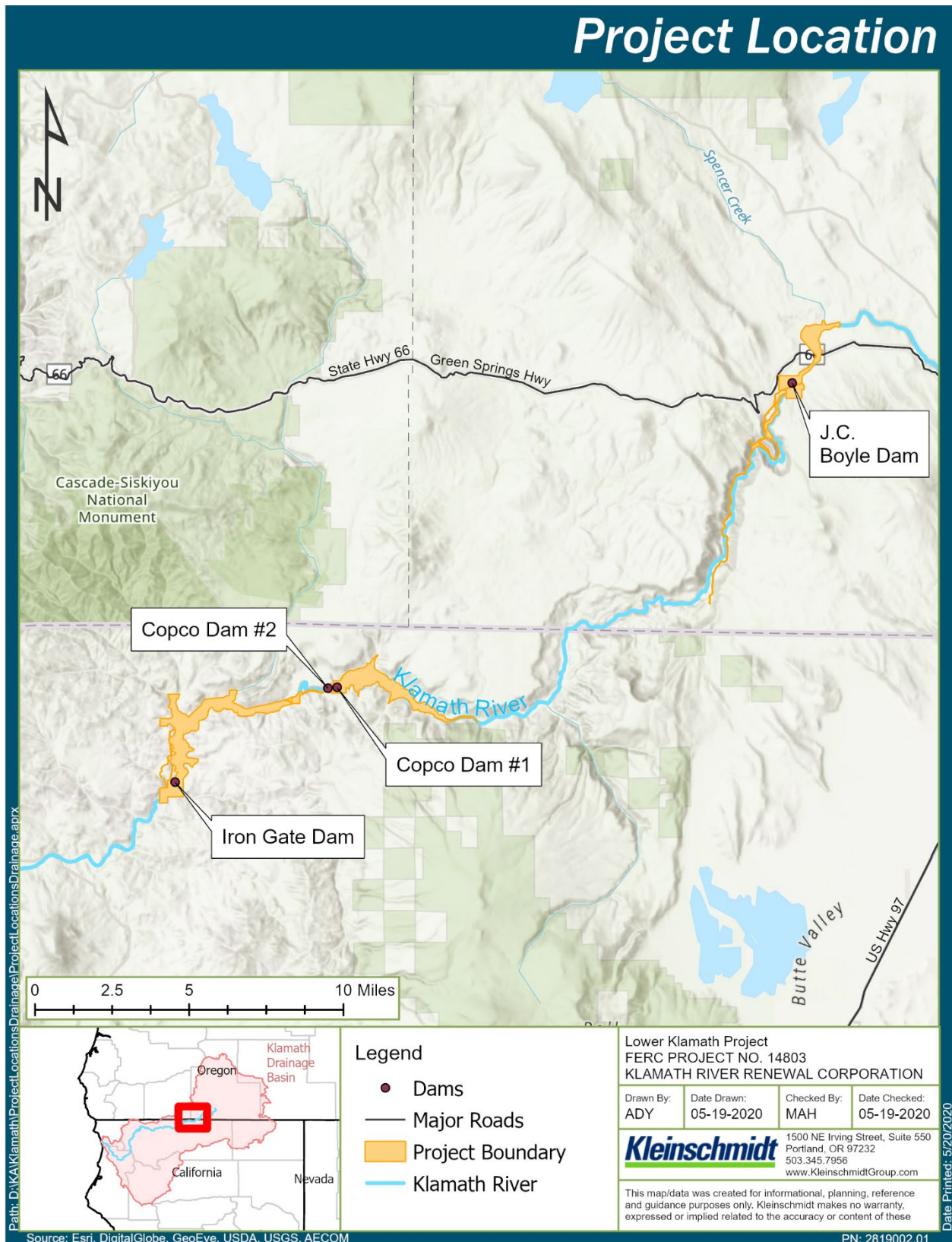
The Lower Klamath Project (FERC No. 14803) consists of four hydroelectric developments on the Klamath River: J.C. Boyle, Copco No. 1, Copco No. 2, and Iron Gate (Figure 1-1). Specifically, the reach between J.C. Boyle Dam and Iron Gate Dam is known as the Hydroelectric Reach. In September of 2016, the Renewal Corporation filed an *Application for Surrender of License for Major Project and Removal of Project Works*, FERC Project Nos. 2082-063 & 14803-001 (License Surrender). The Renewal Corporation filed the License Surrender Application as the dam removal entity for the purpose of implementing the Klamath River Hydroelectric Settlement (KHSa). In November of 2020, the Renewal Corporation filed its Definite Decommissioning Plan (DDP) as Exhibits A-1 and A-2 to its Amended License Surrender Application (ALSA). The DDP is the Renewal Corporation's comprehensive plan to physically remove the Project and achieve a free-flowing condition and volitional fish passage, site remediation and restoration, and avoidance of adverse downstream impacts (Proposed Action). In November 2022, the Commission approved the ALSA and issued the License Surrender Order (LSO) approving facility removal and habitat restoration.

The Proposed Action includes the deconstruction of the J.C. Boyle Dam and Powerhouse (Figure 1-2), Copco No. 1 Dam and Powerhouse (Figure 1-3), Copco No. 2 Dam and Powerhouse (Figure 1-4), and Iron Gate Dam and Powerhouse (Figure 1-5), as well as associated features. Associated features vary by development, but generally include powerhouse intake structures, embankments and sidewalls, penstocks and supports, decks, piers, gatehouses, fish ladders and holding facilities, pipes and pipe cradles, spillway gates and structures, diversion control structures, aprons, sills, tailrace channels, footbridges, powerhouse equipment, distribution lines, transmission lines, switchyards, original cofferdams, portions of the Iron Gate Fish Hatchery, residential facilities, and warehouses. Facility removal will be completed within an approximately 20-month period.

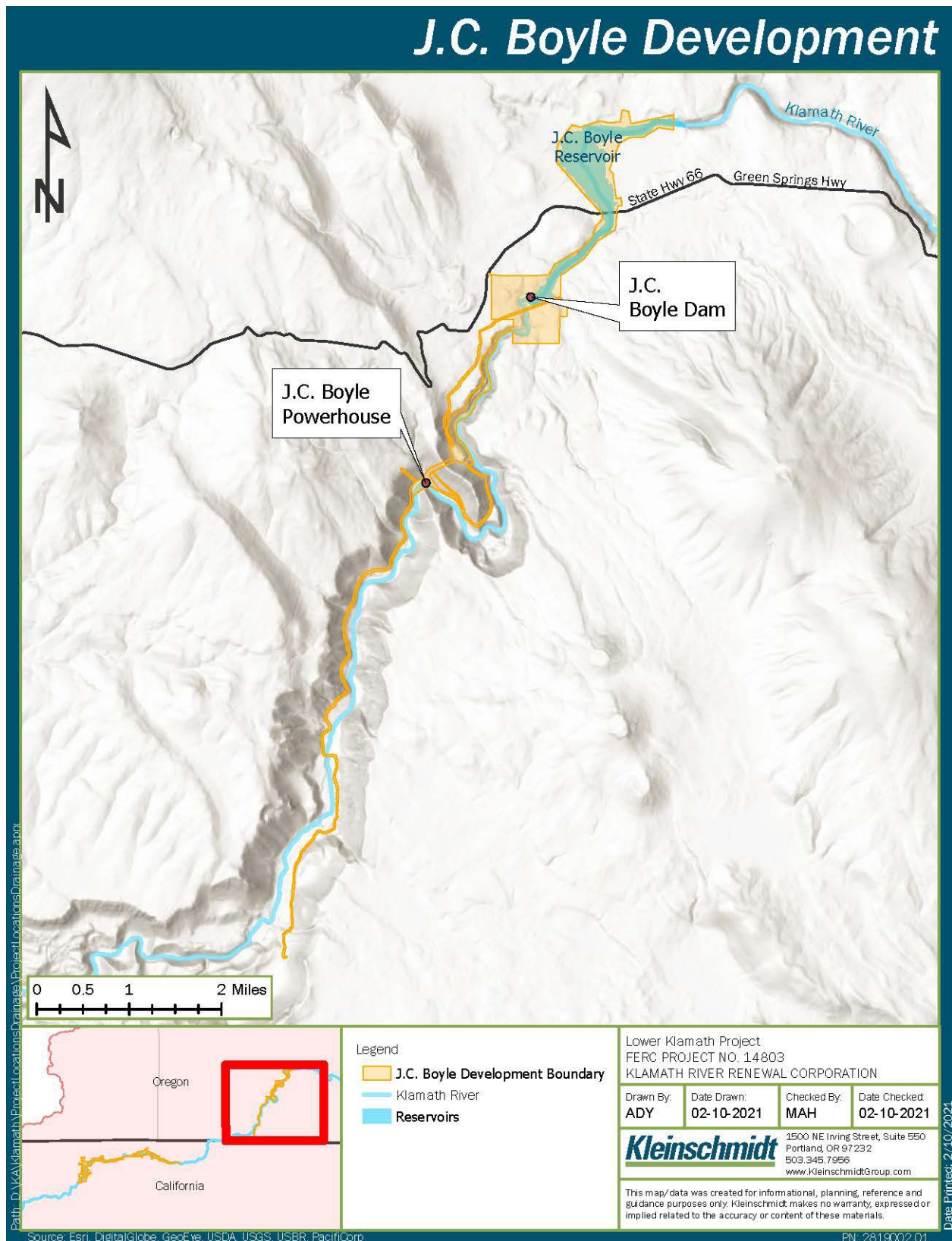
The Erosion and Sediment Control Plan identifies best management practices (BMPs) to address potential impacts associated with implementing the Proposed Action. The Renewal Corporation has established, and will implement, erosion and sediment control BMPs to minimize pollution from sediment erosion caused by facilities removal and restoration activities. The Renewal Corporation prepared 16 Management Plans to implement the DDP, and the Commission reviewed and approved these plans as conditions of its License Surrender Order. These Management Plans were developed in consultation with federal, state, and county governments and tribes.

The LSO Ordering Paragraph (U) approves the Oregon Erosion and Sediment Control Plan as filed on December 14, 2021. Ordering Paragraph (V) requires the Renewal Corporation to file a California Erosion and Sediment Control Plan at least 90 days before starting dam removal activities. The Renewal Corporation now submits modifications to the Erosion and Sediment Control Plan by indicating its commitment to submit a California Erosion and Sediment Control Plan to the Commission for initial review, following the required 30-day agency and Tribal consultation period. The California Erosion and Sediment Control Plan was developed in

compliance with the requirements in Ordering Paragraph (V). An updated Consultation Record for the Erosion and Sediment Control Plan is included as Appendix C.



**Figure 1-1. Lower Klamath Project Location**



**Figure 1-2. J.C. Boyle Development Facility Details**



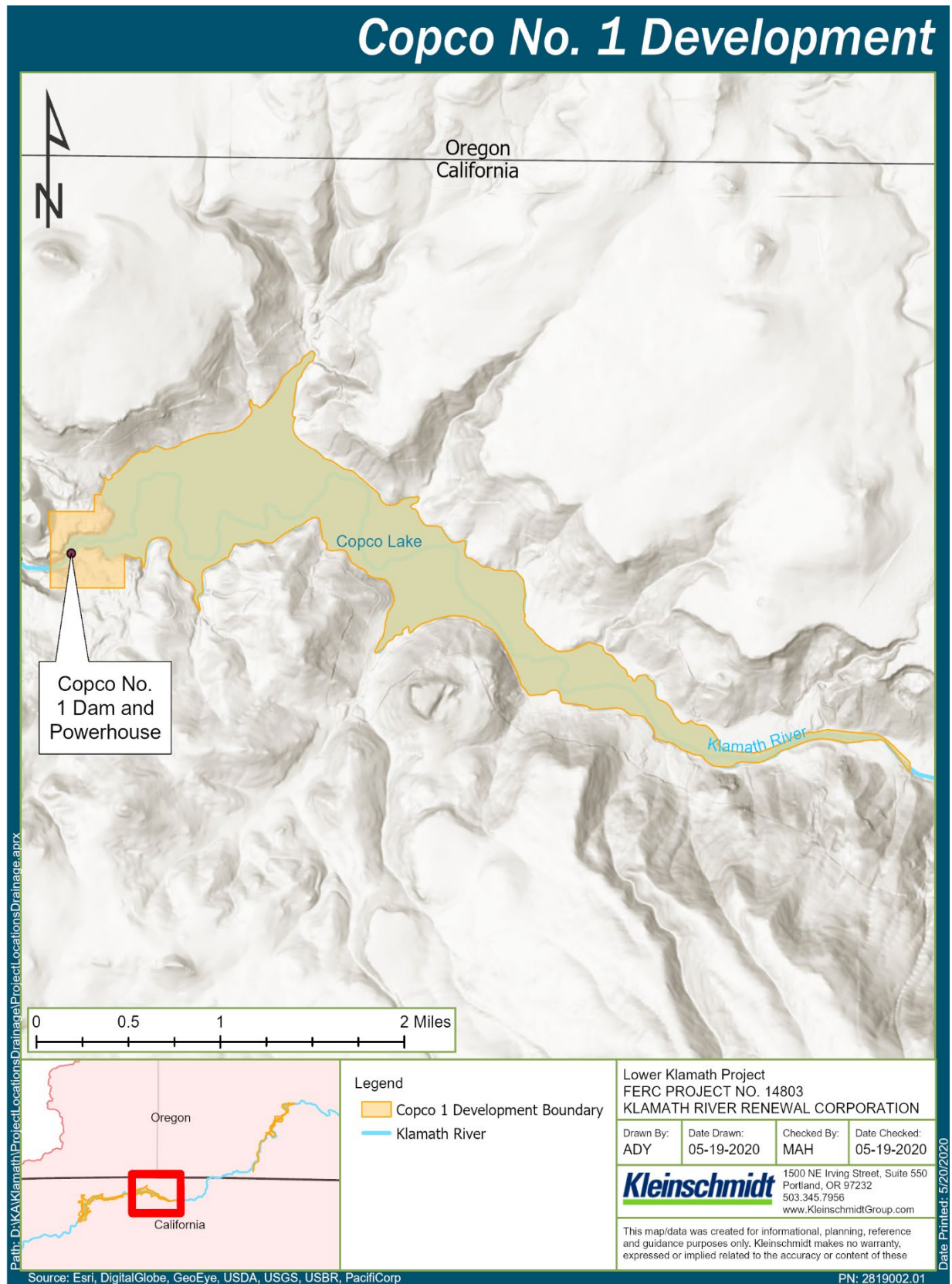


Figure 1-3. Copco No.1 Development Facility Details

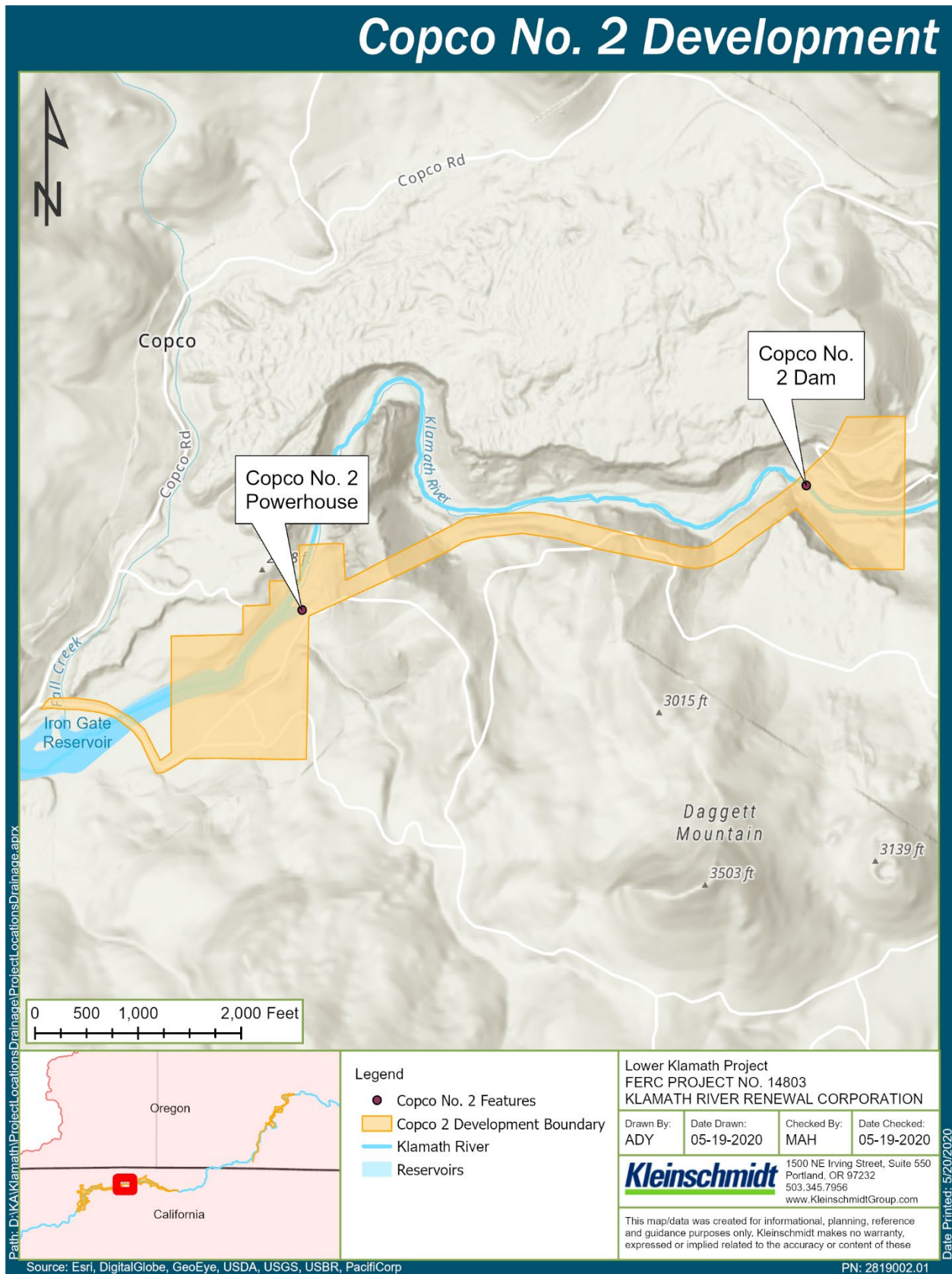


Figure 1-4. Copco No.2 Development Facility Details



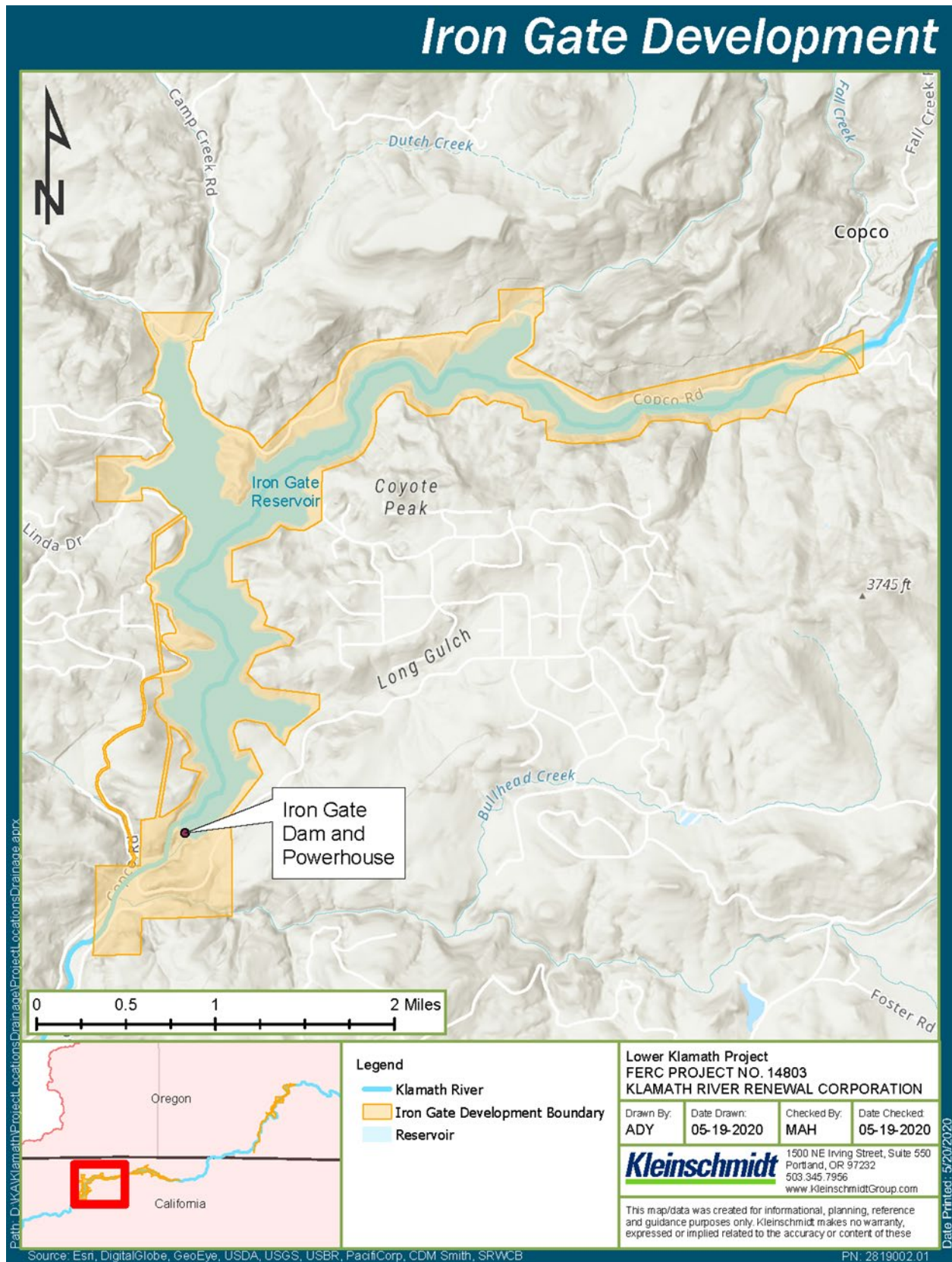


Figure 1-5. Iron Gate Development Facility Details

## 2.0 Regulatory Context

As described in Table 2-1, the Erosion and Sediment Control Plan is one of 16 Management Plans implementing the DDP.

**Table 2-1. Lower Klamath River Management Plans**

1. Aquatic Resources Management Plan	9. Remaining Facilities Plan
2. Construction Management Plan	10. Reservoir Area Management Plan
3. Erosion and Sediment Control Plan	11. Reservoir Drawdown and Diversion Plan
4. Hatcheries Management and Operations Plan	12. Sediment Deposit Remediation Plan
5. Health and Safety Plan	13. Terrestrial and Wildlife Management Plan
6. Historic Properties Management Plan	14. Waste Disposal and Hazardous Materials Management Plan
7. Interim Hydropower Operations Plan	15. Water Quality Monitoring and Management Plan
8. Recreation Facilities Plan	16. Water Supply Management Plan

### 2.1 Organizational Structure

The Erosion and Sediment Control Plan identifies measures that the Renewal Corporation will implement to minimize erosion and sediment runoff throughout implementation of the Proposed Action. The Plan describes relevant measures the Renewal Corporation will implement as part of permitting under the California and Oregon National Pollutant Discharge Elimination System (NPDES) processes. Specifically, the Erosion and Sediment Control Plan includes an updated Consultation Record and two sub-plans, included amongst the Appendices identified below.

- Appendix A: Oregon Erosion and Sediment Control Plan
- Appendix B: California Erosion and Sediment Control Plan
- Appendix C: Consultation Record

### 2.2 Specific Regulatory Interests

The Renewal Corporation considered the following regulatory interests in the development of the Erosion and Sediment Control Plan:

- California Section 401 Water Quality Certification
- California Department of Fish and Wildlife
- Oregon Section 401 Water Quality Certification
- Oregon MOU
- Federal Energy Regulatory Commission Final Environmental Impact Statement
- Federal Energy Regulatory Commission License Surrender Order

### **2.2.1 Oregon NPDES Stormwater Construction General Permit No. 1200-C**

Aside from specified disposal sites outlined in Appendix A Oregon Erosion and Sediment Control Plan, the Renewal Corporation will apply for, obtain and comply with the Oregon Department of Environmental Quality (DEQ) NPDES General Permit No. 1200-C (1200-C Permit). The 1200-C Permit includes temporary and permanent best management practices and monitoring to regulate stormwater runoff to surface waters. As part of the 1200-C Permit, an Erosion and Sediment Control Plan (1200-C ESCP) will be submitted and approved by DEQ.

### **2.2.2 California NPDES Construction General Permit**

The Renewal Corporation will apply for, obtain, and comply with the California NPDES Construction General Permit (CGP). The CGP includes temporary and permanent best management practices and monitoring to regulate stormwater runoff to surface waters. As part of the CGP, the Renewal Corporation will develop Stormwater Pollution Prevention Plan.

## **2.3 Modifications to the Plan**

The Renewal Corporation has modified the December 2021 version of this plan in the following material respects to comply with the November 17, 2022, License Surrender Order.

**Table 2-2. Modifications to the Plan**

<b>SUB-PLAN</b>	<b>MODIFICATIONS</b>
Appendix A: Oregon Erosion and Sediment Control Plan	<ul style="list-style-type: none"><li>Added methodology for termination of coverage for the Bureau of Land Management and the DEQ.</li></ul>
Appendix B: California Erosion and Sediment Control Plan	<ul style="list-style-type: none"><li>To comply with the consultation requirements in Ordering Paragraph (V) this subplan will be submitted at a later date.</li></ul>

## **2.4 Regulatory Approval**

The Renewal Corporation will implement the Erosion and Sediment Control Plan as approved by the Commission in the License Surrender Order. The Renewal Corporation will obtain and report to the Commission any required approvals from other agencies.

## **2.5 Reporting**

The Renewal Corporation will prepare and submit to the Commission an Annual Report by April 15<sup>th</sup> of each year which will include information pertaining to implementation of the Erosion and Sediment Control Plan.

## **Appendix A**

### **Oregon Erosion Sediment Control Plan**



## **Lower Klamath Project FERC Project No. 14803**

# **Oregon Erosion and Sediment Control Plan**

**Klamath River Renewal Corporation  
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December 2022

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## **1.0 Introduction**

The Oregon Erosion and Sediment Control Plan is a subplan of the Erosion and Sediment Control Plan that will be implemented as part of the Proposed Action for the Lower Klamath Project.

### **1.1 Purpose of Management Plan**

The purpose of the Oregon Erosion and Sediment Control Plan is to state measures the Renewal Corporation will implement to minimize erosion and sediment runoff to protect water quality at disposal sites. The Oregon Erosion and Sediment Control Plan measures are limited to the disposal sites listed below:

- Scour Hole Disposal Site
- Left Bank Disposal Site
- J.C. Boyle Powerhouse and Tailrace Disposal Site

Figures showing the locations of the disposal sites are included in Appendix A.

Through consultation with the Oregon Department of Environmental Quality (DEQ), the Renewal Corporation determined the erosion and sediment control measures to be implemented for the disposal sites will be managed through this plan consistent with the 2018 Oregon Section 401 Water Quality Certification. This Oregon Erosion and Sediment Control Plan generally includes the terms and conditions outlined in the National Pollutant Discharge Elimination System Stormwater Construction (NPDES) General Permit No. 1200-C (NPDES 1200-C) to minimize erosion and sediment runoff to protect water quality.

The Renewal Corporation will apply for, obtain, and comply with the NPDES 1200-C for upland land disturbance activities of more than one acre that are not included within this Oregon Erosion and Sediment Control Plan. A copy of the Oregon Erosion and Sediment Control Plan will be kept on-site during Project implementation.

The Bureau of Land Management (BLM) owns a portion of the Scour Hole Disposal Site and the J.C. Boyle Powerhouse and Tailrace Disposal Site. Final stabilization methods for erosion and sediment control for these areas are included in the Use and Occupancy Plan for Bureau of Land Management Lands (Appendix D of the Construction Management Plan).

### **1.2 Relationship to Other Management Plan Plans**

The Oregon Erosion and Sediment Control Plan is supported by elements of the following management plans for effective implementation: Waste Disposal and Hazardous Materials Management Plan, Reservoir Area Management Plan, and the Construction Management Plan. So as to not duplicate information, elements from these plans are not repeated herein but are, where appropriate, referred to in this Oregon Erosion and Sediment Control Plan.

## **2.0 Land Disturbing Activities**

The Oregon Erosion and Sediment Control Plan includes erosion and sediment control measures to be implemented during the following land disturbing activities.

- Site preparation for disposal sites (e.g., site clearing, grubbing etc.).
- Placement of material within disposal sites.
- Final stabilization.

Details regarding the location, construction, size, and disposal materials for each of the disposal sites is included in the Oregon Waste Disposal and Hazardous Materials Management Plan (Appendix C of the Waste Disposal and Hazardous Materials Management Plan).

## **3.0 Authorized Stormwater and Non-Stormwater Discharge**

The Oregon Erosion and Sediment Control Plan addresses procedures to minimize the discharge of sediment from stormwater and non-stormwater discharge events. The following authorized stormwater and non-stormwater discharges associated with the disposal sites include:

### Stormwater

- Stormwater associated with the construction of the disposal sites.
- Stormwater from support disposal site activities at the construction site (construction access, staging etc.).

### Non-Stormwater

- Water used to control dust.
- Construction dewatering activities.

The following discharges are not authorized by the Oregon Erosion and Sediment Control Plan:

- Wastewater from washout and cleanout of stucco, paint, form release oils, curing compounds and other construction materials.
- Fuels, oils, or other pollutants used in vehicle and equipment operation and maintenance.
- Soaps or solvents used in vehicle and equipment washing.

## **4.0 Erosion and Sediment Control Measures**

The Renewal Corporation will implement control measures and limitations for the disposal site land disturbing activities. Installation of erosion and sediment control measures will be overseen by a Certified Professional in Erosion and Sediment Control (CPESC).

### **4.1 Control Measures and Limitations**

The Renewal Corporation will implement the following measures and limitations to reduce erosion and sediment runoff:

#### Erosion Prevention

- Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
- Use water trucks to reduce wind-blown soil.
- Temporarily stabilize soils at the end of the shift before periods of inactivity (holidays and weekends), if needed, and during rain events at all times of the year.
- Avoid or minimize excavation and bare ground activities during wet weather.
- Temporary sediment control practices cannot be removed until permanent vegetation or other cover of exposed areas is established.
- Preserve existing vegetation when practical.
- Stabilize or cover soil stockpiles based on weather conditions at the end of each workday or implement other best management practices (BMPs) to prevent discharges to surface waters or conveyance systems leading to surface waters.

#### Natural Buffer Zone

- Flag or fence off Non-Reservoir Dependent wetlands not specifically authorized to be impacted to protect from disturbance and/or erosion.
- Use removable pads or mats to reduce soil compaction at construction access points and staging areas in riparian or wetland areas.

#### Runoff Control

- Control peak flow rates and total stormwater volume to minimize erosion at outlets and downstream channels and streambanks.

#### Sediment Control

- Control sediment discharge as needed along the site perimeter during construction, both internally and at the site boundary.
- Prevent tracking of sediment onto public or private roads.

### Pollution Prevention and Control

- Follow BMPs included in the Oregon Spill Prevention, Control, and Countermeasure Plan (Appendix D of the Waste Disposal and Hazardous Materials Management Plan) to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities.
- Use BMPs to prevent or minimize pollution of stormwater or to treat flow from dewatering or ponded water.
- Stabilize or cover soil stockpiles based on weather conditions at the end of each workday or implement other BMPs to prevent discharges to surface waters or conveyance systems leading to surface waters.

### Inactive Periods

- If all construction activities cease at the disposal sites for thirty (30) calendar days or more, the disposal site must be stabilized using temporary seeding, vegetation, a heavy mulch layer, or another method.
- On any significant portion of the site, if construction activities cease for fourteen (14) calendar days or more, install temporary covering such as blown straw and a tackifier, loose straw, compost mulch, temporary vegetative cover, crushed rock or gravel base.

## **4.2 Implementation of Control Measures**

The Renewal Corporation will implement the control measures and limitations described in Section 4.1 in accordance with the following sequence:

### Prior to Construction

1. Identify, mark, and protect (with construction fencing or other means) critical riparian areas and vegetation areas to be preserved.
2. Identify, mark and protect vegetative buffer zones between the site and sensitive areas and other areas to be preserved.
3. Hold a pre-construction meeting of project construction personnel that includes the inspector to discuss erosion and sediment control measures and construction limits.
4. Stabilize site entrances and access roads.
5. Install downhill sediment control.
6. Establish a specific area for construction and waste storage materials, and other non-stormwater controls if within the disposal sites.

### During Construction

1. Land Clearing, Grading and Roadways.
  - a. Begin land clearing, excavation, trenching, cutting or grading after installing applicable sediment and runoff control measures.

- b. Provide appropriate erosion and sediment control BMPs for all ingress and egress routes at the disposal areas.
  - c. Install additional control measures as work progresses as needed.
  - d. Phase clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion.
2. Apply temporary stabilization measures or permanent stabilization measures immediately on all disturbed areas when work is completed. Stabilization of disturbed areas must be initiated immediately whenever any earth disturbing activities have permanently ceased on any portion of the site.

#### Post Construction Final Stabilization

1. Provide final vegetative cover or permanent stabilization (i.e., native rock) measures on all exposed areas (See Section 6.0 for additional details).
2. Remove and properly dispose of construction materials and waste, including sediment retained by temporary BMPs.
3. Remove all temporary control measures as areas are stabilized, unless doing so conflicts with local requirements.

If temporary or permanent stabilization measures are not required for areas that are intended to be left unvegetated or do not require stabilization following construction, measures will be put in place to eliminate or minimize erosion.

#### **4.2.1 Temporary and Permanent BMPs**

Temporary and permanent erosion and sediment control drawings are included as Appendix B.

#### **4.2.2 BMP Maintenance**

The Renewal Corporation will implement the following procedures for maintenance and repair of erosion and sediment control measures.

#### General Site Maintenance

- Sediment that migrates beyond the boundaries of the work area will be returned to the construction area to the extent practicable. Additional BMPs will be applied, as warranted, to prevent future escape of sediments during construction operations.
- Sediment will not be intentionally washed into drainage ways.

#### Maintenance of Erosion and Sediment Controls

- Sediment fence: remove trapped sediment before it reaches one third of the above-ground fence height.
- Other sediment barriers (such as biobags): remove sediment.

#### **4.2.3 Corrective Actions**

The Renewal Corporation will implement corrective actions to prevent or control the discharge of significant amounts of sediment or turbidity to surface waters or to conveyance systems that discharge to surface waters. If corrective actions are required, the source of sediment will be controlled within 48 hours to prevent continued or additional discharges. The corrective action will be documented per Section 5.1, below.

## **5.0 Monitoring**

The disposal sites will be monitored for erosion and sediment runoff by a qualified inspector. The inspector will have one or more of the following certifications:

- Certified Professional in Erosion and Sediment Control (CPESC)
- Certified Professional in Storm Water Quality (CPSWQ)
- Washington Department of Ecology's Certified Erosion and Sediment Control Lead (CESCL) Certification
- Certified Inspector of Sediment and Erosion Control
- Rogue Valley Sewer Services Erosion and Sediment Control Certification

A copy of the inspector's certificate will be included with the on-site Oregon Erosion and Sediment Control Plan.

### **5.1 Visual Monitoring**

The Renewal Corporation's designated certified inspector will visually monitor the following:

- All areas of the disposal sites disturbed by construction activity to ensure that BMPs are in proper working order.
- Discharge point(s) identified in the Oregon Erosion and Sediment Control drawings (Appendix B) for evidence of or the potential for the discharge of pollutants and to ascertain whether erosion and sediment control measures are effective in preventing adverse impacts to surface waters. Where discharge points are inaccessible, nearby downstream locations must be inspected to the extent that such inspections are practical.
- BMPs to assess whether they are functioning properly.
- Locations where vehicles enter or exit the disposal sites for evidence of off-site sediment tracking.
- Areas used for storage of materials that are exposed to precipitation for evidence of spillage or other potential to contaminate stormwater runoff.

The erosion and sediment controls and practices will be monitored in accordance with the following schedule:

**Table 5-1. Monitoring Frequency**

<b>SITE CONDITION</b>	<b>MINIMUM FREQUENCY</b>
1. Active period	Daily when stormwater runoff, including runoff from snow melt, is occurring.  At least once every fourteen (14) calendar days, regardless of whether stormwater runoff is occurring.
2. Prior to the site becoming inactive or in anticipation of site inaccessibility	Once to ensure that erosion and sediment control measure(s) are in working order. Any necessary maintenance and repair will be made prior to leaving the site.
3. Inactive periods greater than fourteen (14) consecutive calendar days	Once every month.
4. Periods during which the site is inaccessible due to inclement weather	If practical, inspections will occur daily at a relevant and accessible discharge point or downstream location.
5. Periods during which discharge is unlikely due to frozen conditions.	Once every month.

Documentation of visual monitoring will include the following information:

- Visual monitoring date and inspector's name.
- Disposal site name.
- Weather conditions during the inspection.
- Observations for each discharge location. If a discharge location is inaccessible due to safety hazard, document the hazard and record the inspections noted at a relevant discharge point or downstream location if practical.
- Location(s) of BMPs in need of maintenance and inspections of all BMPs.
- Location(s) of BMPs that failed to operate as designed or proved inadequate for a particular location.
- Location(s) where additional BMPs are needed that did not exist at the time of inspection.
- Corrective action required and implementation dates.

## **6.0 Stabilization**

The Renewal Corporation will achieve final stabilization at each of the disposal sites.

### **6.1 Final Stabilization Criteria**

The Renewal Corporation will determine final stabilization has been achieved by satisfying the following criteria:

- There is no reasonable potential for discharge of a significant amount of construction related sediment or turbidity to surface waters.
- Construction materials and waste have been removed and disposed of properly. This includes any sediment that was being retained by the temporary erosion and sediment controls.
- All temporary erosion and sediment controls have been removed and disposed of properly, unless doing so conflicts with local requirements.
- All soil disturbance activities have stopped and all stormwater discharges from construction activities have ceased.
- All disturbed or exposed areas of the disposal site are covered by either final vegetative stabilization or permanent stabilization measures.
- If temporary or permanent stabilization measures are not required for areas that are intended to be left unvegetated or do not require stabilization following construction, measures will be put in place to eliminate or minimize erosion.

## **6.2 Termination of Coverage**

### **6.2.1 BLM-owned Land**

Final stabilization at the Scour Hole and Powerhouse and Tailrace Disposal Sites will be accomplished in accordance with the Use and Occupancy Plan for Bureau of Land Management Lands (Appendix D of the Construction Management Plan) and in coordination with the BLM.

Under Section 24 of the Federal Power Act, the Commission withdrew the BLM Project lands for hydropower exclusive use. Once the dams are removed, the Commission will remove or “vacate” the land withdrawal. For the Commission to complete the land withdrawal vacate, the BLM will acknowledge the lands meet their condition for acceptance. To facilitate the BLM acceptance, the Renewal Corporation will rehabilitate the disposal areas. This includes, but is not limited to, rehabilitating disturbed land in a manner that reduces invasive species, promotes the success of native species, protects current beneficial habitat, and minimizes erosion.

### **6.2.2 Future Oregon-owned Land**

Final stabilization at the Left Bank Disposal Site will be accomplished in accordance with the Reservoir Area Management Plan. Once the final year performance criteria outlined in the Reservoir Area Management Plan has been achieved, the Renewal Corporation will notify the DEQ that the performance criteria have been met and request the Renewal Corporation be permitted to discontinue monitoring with respect to the performance criteria.

Once the DEQ approves the request, the Renewal Corporation will no longer be required to conduct any monitoring with respect to such performance criteria at the disposal site.

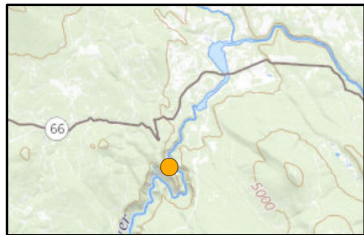
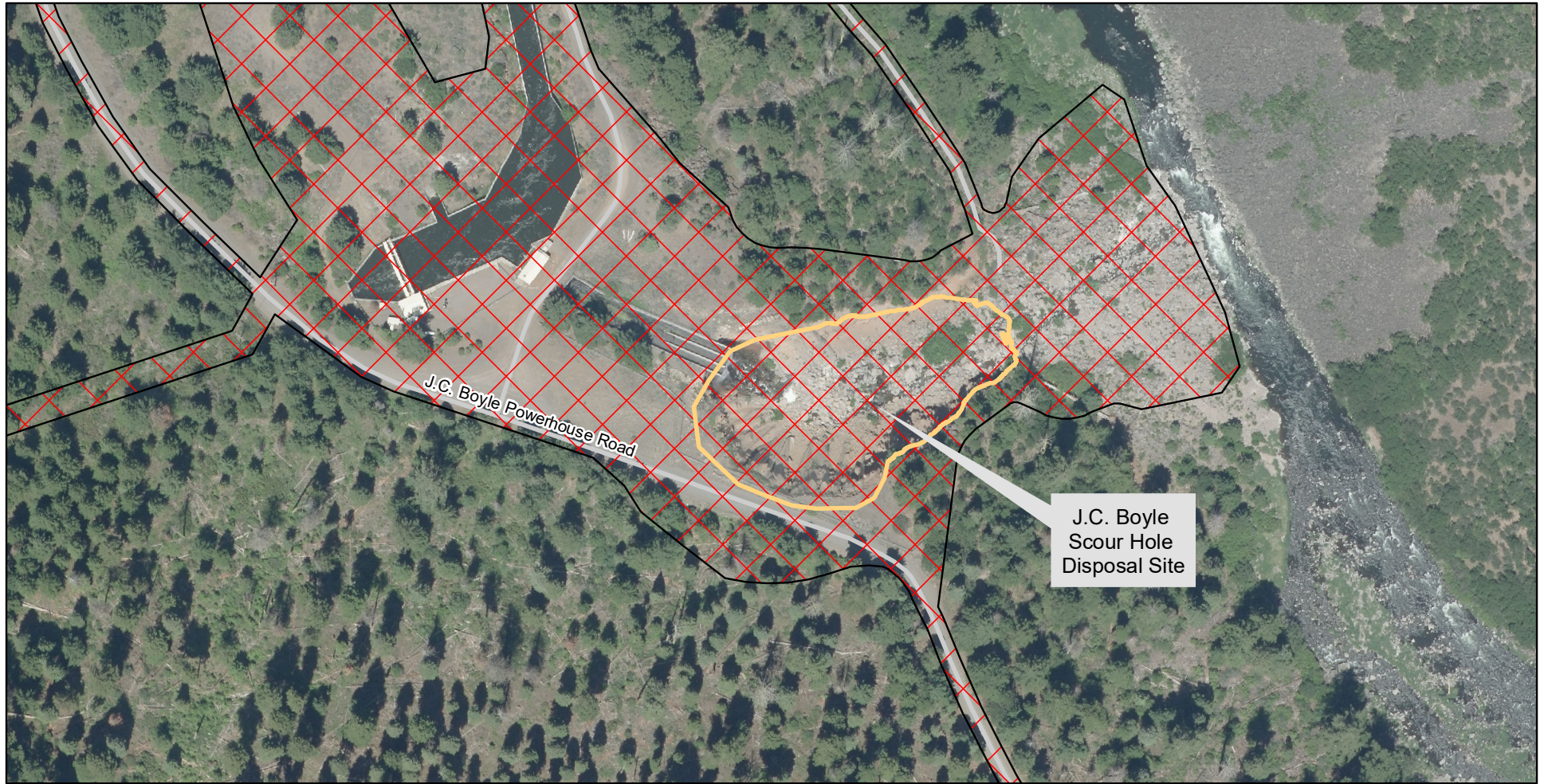


## **7.0 Reporting**

Visual monitoring and final stabilization documentation will be included in an Annual Compliance Report submitted to the DEQ and the Federal Energy Regulatory Commission by April 1 and April 15, respectively, for the preceding year in which activities are performed.

## **Appendix A**

### **Figures**






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**Notes**

1. Coordinate System: NAD83 HARN StatePlane California I FIPS 0401 Feet
2. Data Sources: Disposal sites, Limits of Work and Access Roads: Knight Piesold 100 design.
3. Background: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

**Legend**

-  Disposal Sites
-  Limits of Work
-  Roads

*Lower Klamath Project*

**Figure A-1: J.C. Boyle Disposal Site  
Scour Hole**

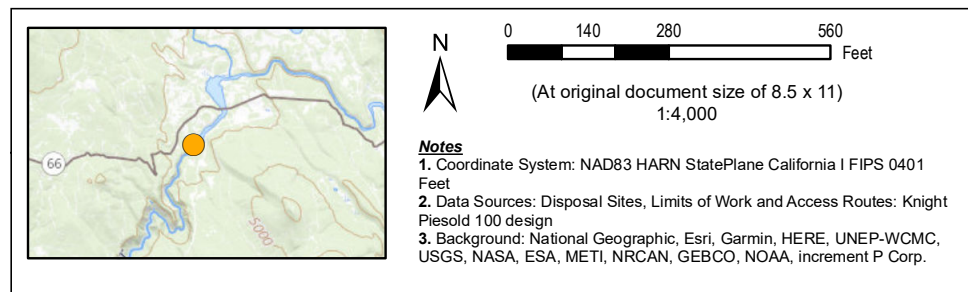
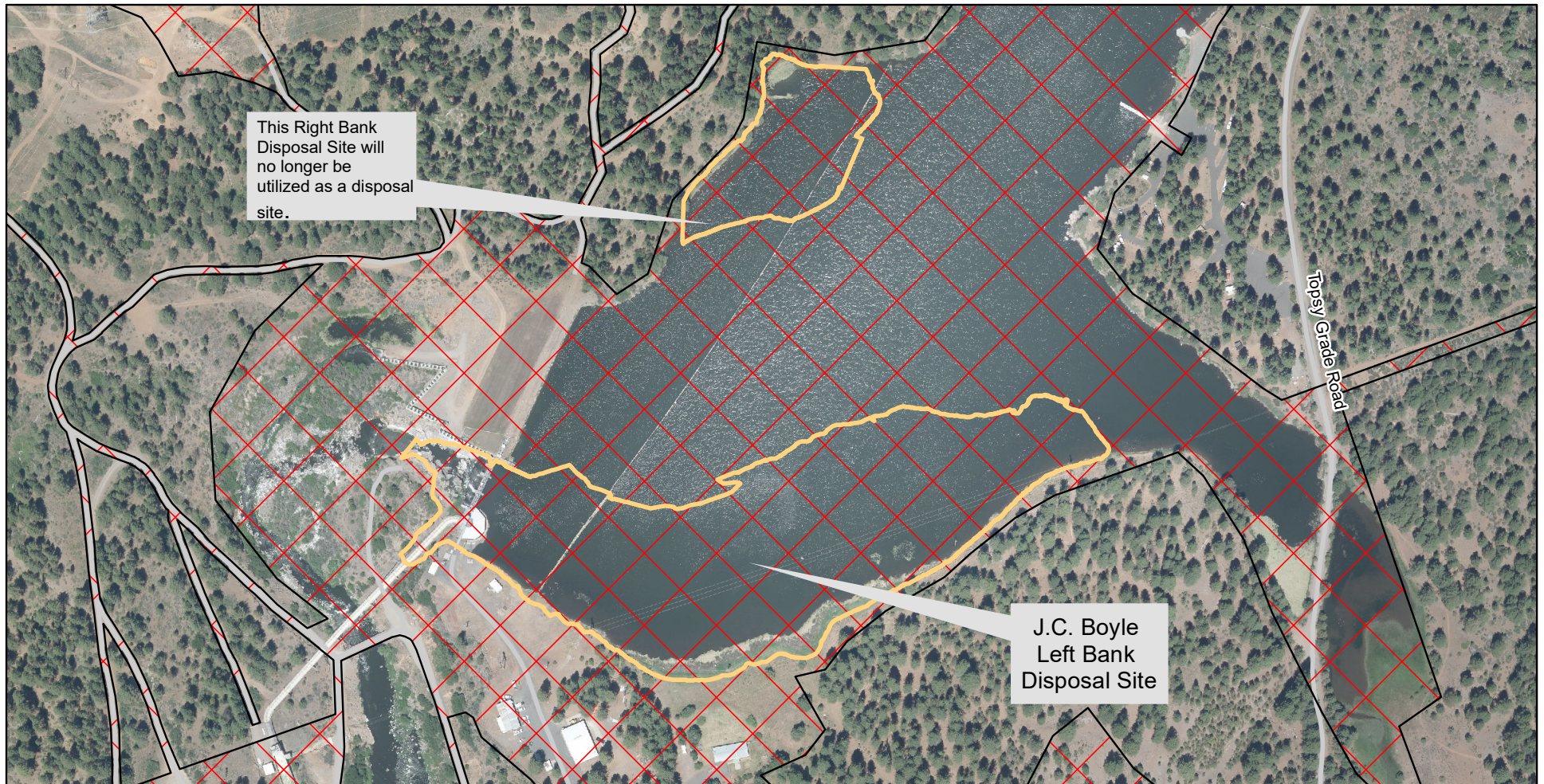


October, 2021




**PRELIMINARY DESIGN  
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### Legend

-  Disposal Sites
-  Limits of Work
-  Roads

### Lower Klamath Project Figure A-2 J.C. Boyle Left Disposal Site

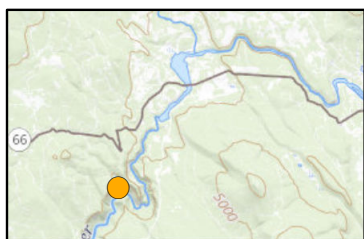
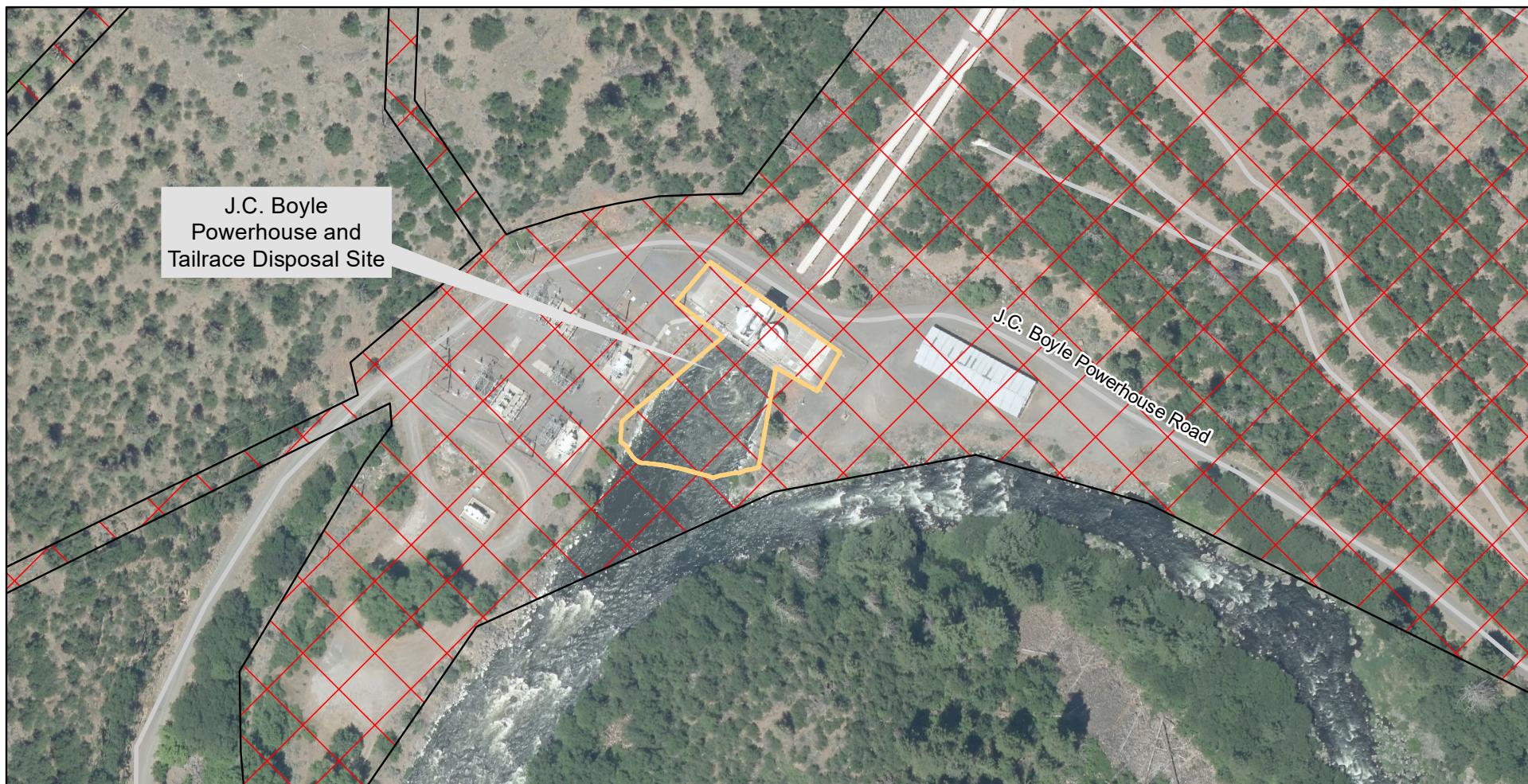
October, 2021

PRELIMINARY DESIGN  
(NOT FOR CONSTRUCTION)



Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. McMillen Jacobs Associates has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. McMillen Jacobs Associates assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.





0 65 130 260 Feet

(At original document size of 8.5 x 11)  
1:1,890

**Notes**

1. Coordinate System: NAD83 HARN StatePlane California I FIPS 0401 Feet
2. Data Sources: Disposal Sites, Limits of Work, Access Roads: Knight Piesold 100 design.
3. Background: National Geographic, Esri, Garmin, HERE, UNEP-WCMC, USGS, NASA, ESA, METI, NRCAN, GEBCO, NOAA, increment P Corp.

**Legend**

- Disposal Sites
- Limits of Work
- Roads

*Lower Klamath Project*

**Figure A-3: J.C. Boyle Disposal Site  
Powerhouse and Tailrace**



October, 2021

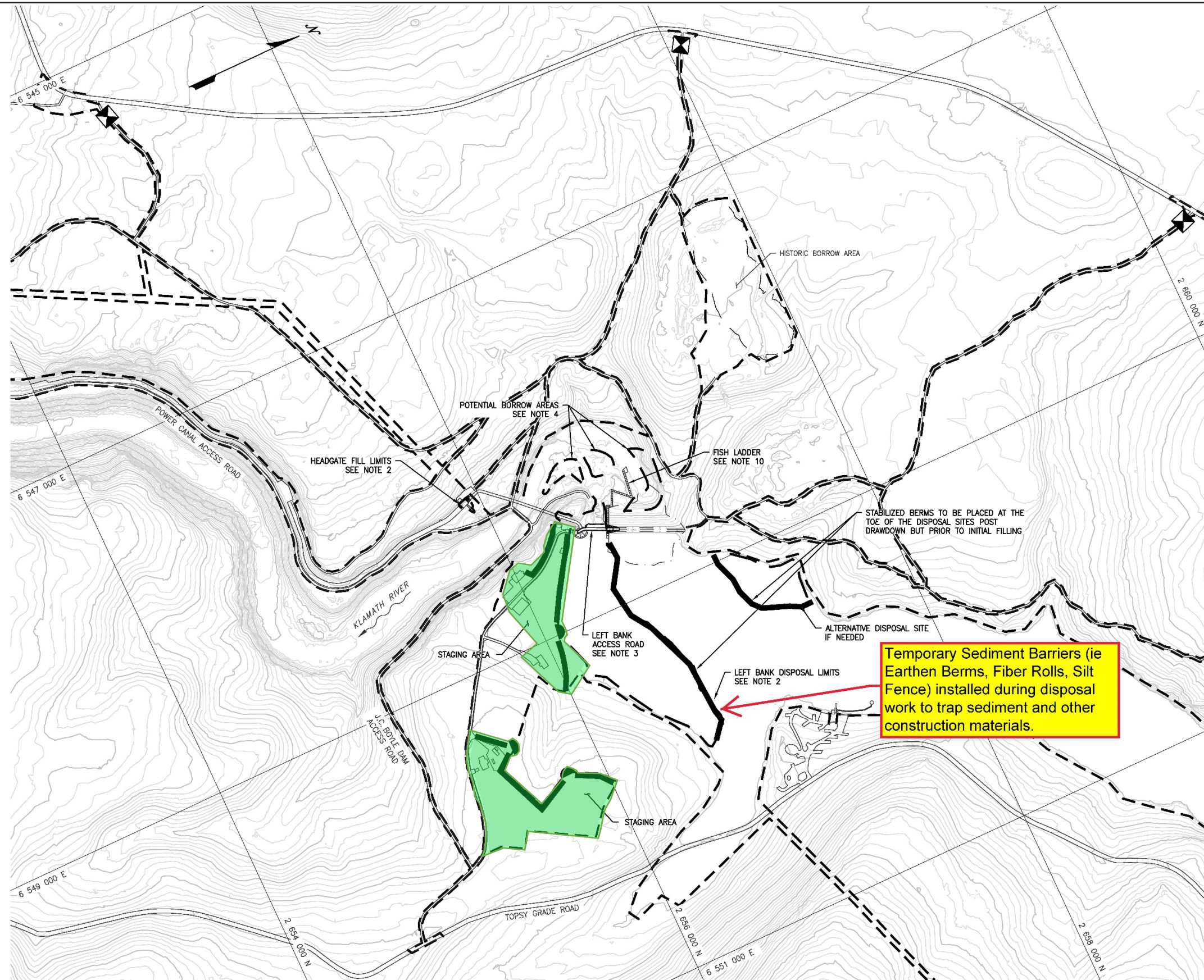
PRELIMINARY DESIGN  
(NOT FOR CONSTRUCTION)

Disclaimer: This document has been prepared based on information provided by others as cited in the Notes section. McMillen Jacobs Associates has not verified the accuracy and/or completeness of this information and shall not be responsible for any errors or omissions which may be incorporated herein as a result. McMillen Jacobs Associates assumes no responsibility for data supplied in electronic format, and the recipient accepts full responsibility for verifying the accuracy and completeness of the data.

## **Appendix B**

### **Erosion and Sediment Control Drawings**



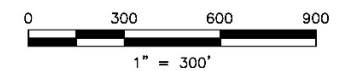


- LEGEND:**
- AREAS COVERED BY 1200C PERMIT
  - CONSTRUCTION ENTRANCE
  - CHECK DAM
  - STABILIZED BERM
  - FILL LIMITS
  - LIMITS OF WORK

Temporary Sediment Barriers (ie Earthen Berms, Fiber Rolls, Silt Fence) installed during disposal work to trap sediment and other construction materials.

PLAN  
1" = 300'

ISSUED FOR CONSTRUCTION



drawings: May 23, 2022, 2:25pm  
P:\242439\1030640\1\KlamathRiverRenewal\1000C\1600C\1600C.dwg

REV	DESCRIPTION	BY	CHK	APP	DATE
0	ISSUED FOR CONSTRUCTION	LB	CBNSRM	05/27/22	

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY  
**Knight Piésold CONSULTING**  
**Kiewit**

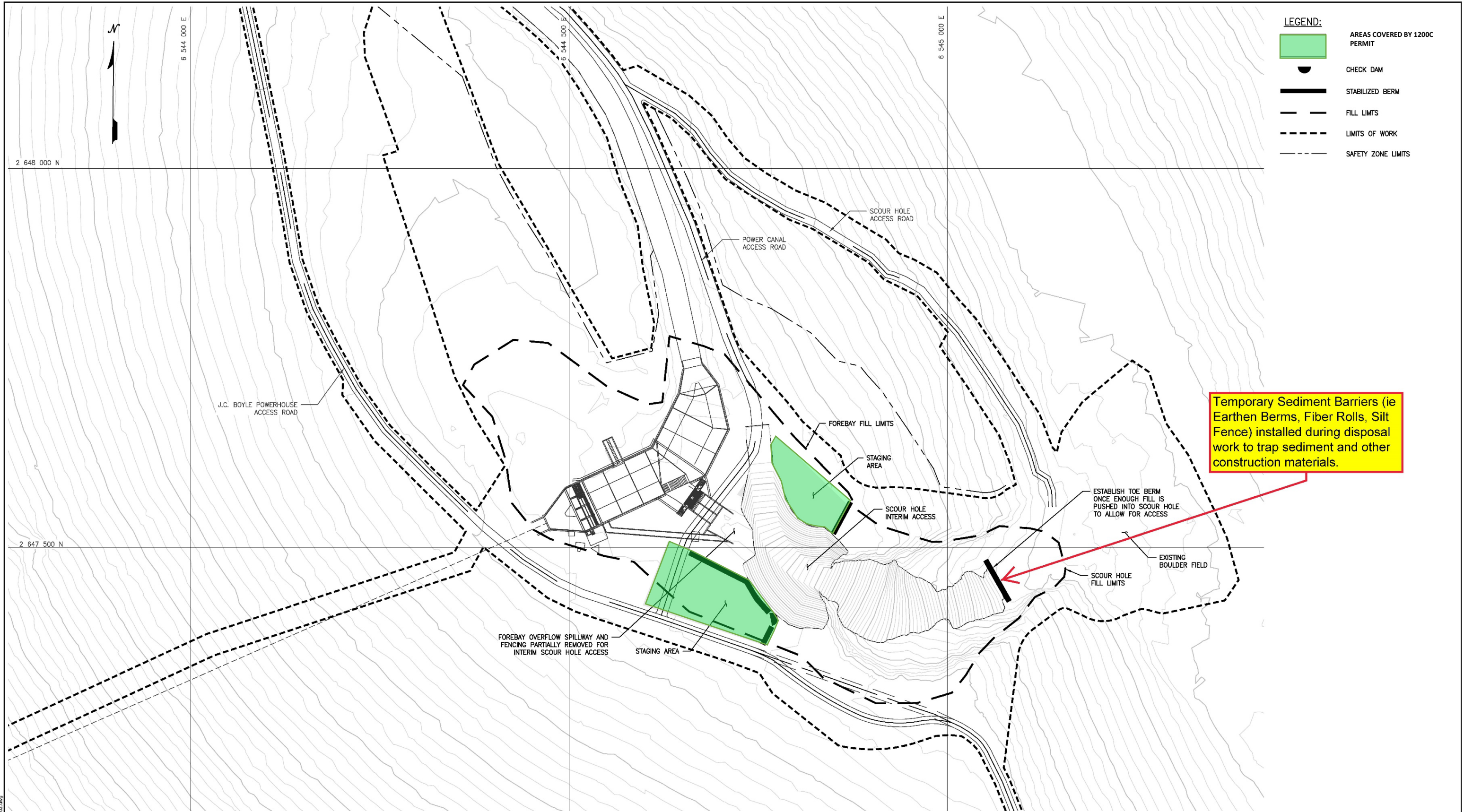
DESIGNED: L. BUETIKOFER  
DRAWN: R. MARTIN  
REVIEWED: C. NIAMIR  
IN CHARGE: N. BISHOP  
APPROVED: S. MOTTRAM

PREPARED FOR  
**KLAMATH RIVER RENEWAL CORPORATION**

PROJECT: **KLAMATH RIVER RENEWAL PROJECT**  
SHEET TITLE: J.C. BOYLE FACILITY  
TEMPORARY EROSION AND SEDIMENT CONTROL EMBANKMENT, SPILLWAY, AND INTAKE

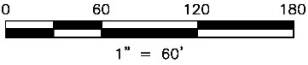
PROJ # VA103-640/1  
DATE 05/27/2022  
DWG C1600





PLAN  
1" = 60'

ISSUED FOR CONSTRUCTION



drawings: May 23, 2022, 2:38pm  
P:\2022\10034000\VA103-640\DWG\1003C1602C1602.dwg

0	ISSUED FOR CONSTRUCTION	LB	CBNSRM	05/27/22	
REV	DESCRIPTION	BY	CHK	APP	DATE

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

PREPARED BY

Knight Piésold CONSULTING

Kiewit

DESIGNED	L. BUETIKOFER
DRAWN	R. MARTIN
REVIEWED	C. NIAMIR
IN CHARGE	N. BISHOP
APPROVED	S. MOTTRAM

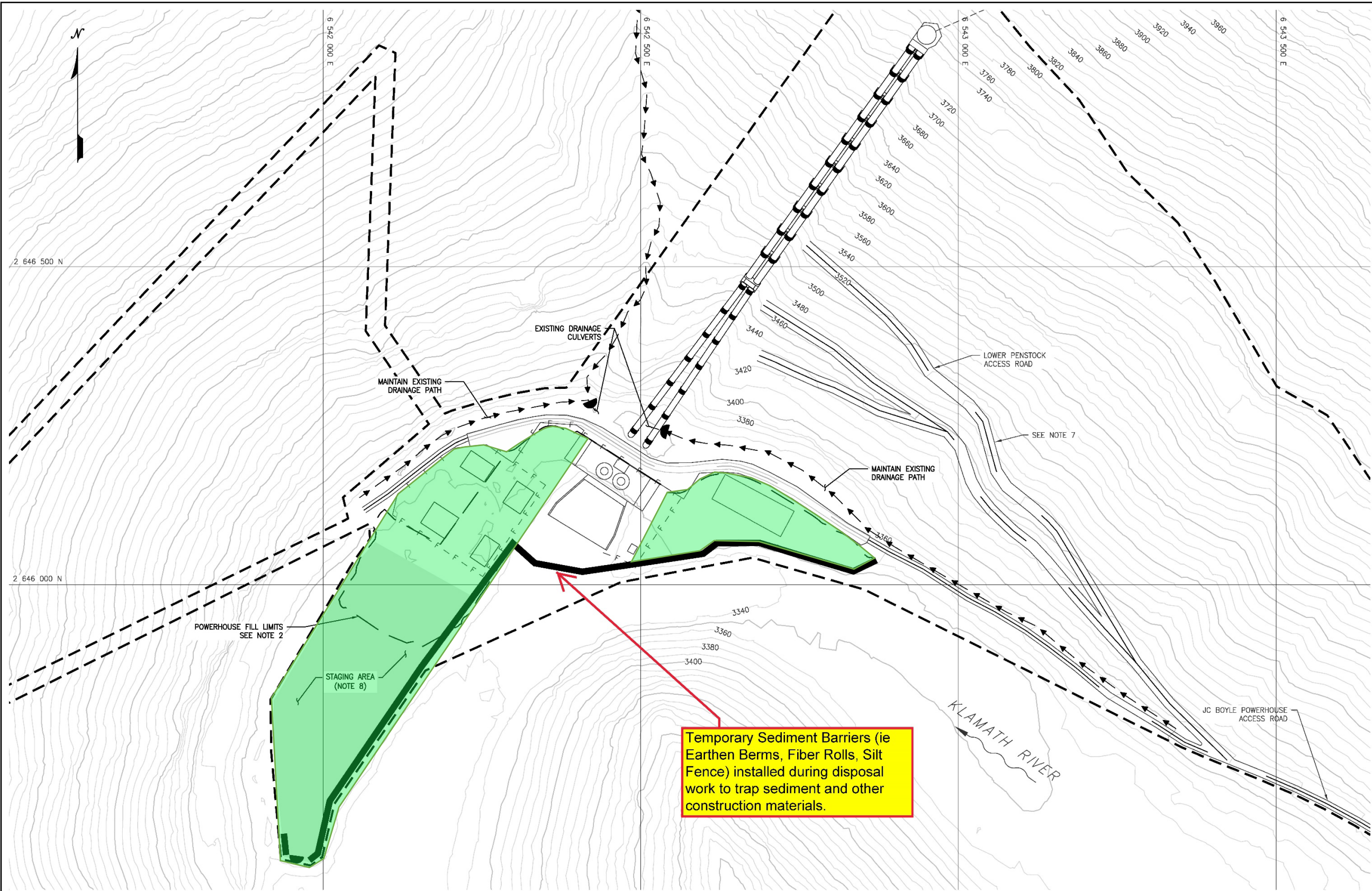
PREPARED FOR

KLAMATH RIVER RENEWAL CORPORATION

PROJECT	KLAMATH RIVER RENEWAL PROJECT
SHEET TITLE	J.C. BOYLE FACILITY TEMPORARY EROSION AND SEDIMENT CONTROL FOREBAY AND SCOUR HOLE

PROJ #	VA103-640/1
DATE	05/27/2022
DWG	C1602



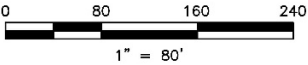


- LEGEND:**
- AREAS COVERED BY 1200C PERMIT
  - CHECK DAM
  - STABILIZED BERM
  - EXISTING DRAINAGE
  - FILL LIMITS
  - LIMITS OF WORK

Temporary Sediment Barriers (ie Earthen Berms, Fiber Rolls, Silt Fence) installed during disposal work to trap sediment and other construction materials.

PLAN  
1" = 80'

ISSUED FOR CONSTRUCTION



0	ISSUED FOR CONSTRUCTION	LB	CBNSRM	05/27/22	
REV	DESCRIPTION	BY	CHK	APP	DATE

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



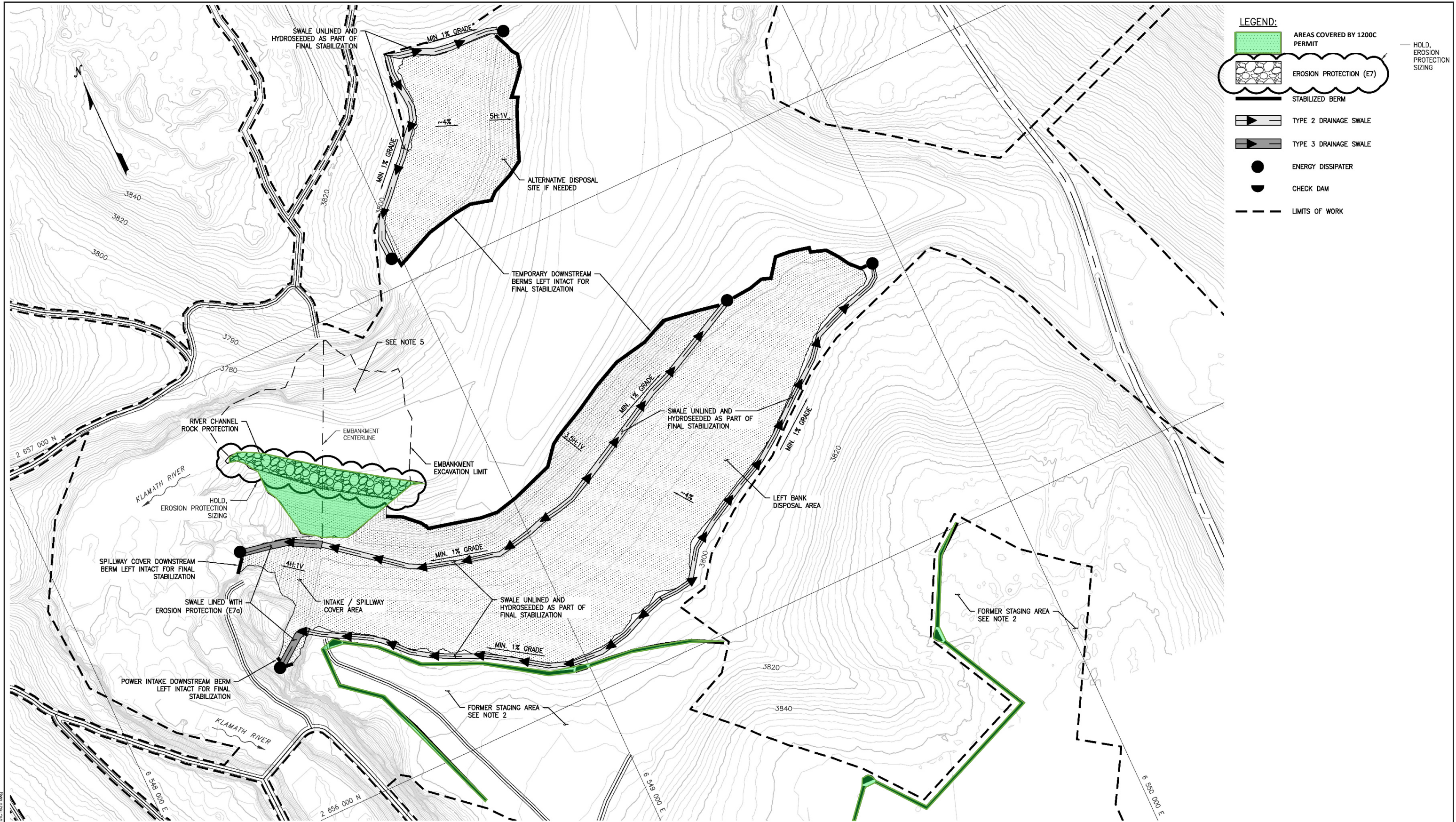
DESIGNED L. BUETIKOFER  
DRAWN R. MARTIN  
REVIEWED C. NIAMIR  
IN CHARGE N. BISHOP  
APPROVED S. MOTTRAM



PROJECT **KLAMATH RIVER RENEWAL PROJECT**  
SHEET TITLE J.C. BOYLE FACILITY  
TEMPORARY EROSION AND SEDIMENT CONTROL  
PENSTOCK AND POWERHOUSE

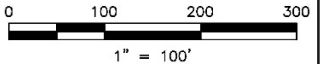
PROJ # VA103-640/1  
DATE 05/27/2022  
DWG **C1603**








PLAN  
1" = 100'

ISSUED FOR CONSTRUCTION



						<div>WARNING</div> <div>0 1/2 1</div> <div>IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE</div>		<div>PREPARED BY</div> <div><div> Knight Piésold CONSULTING</div><div> Kiewit</div></div>		<div>DESIGNED</div> <div>L. BUETIKOFER</div>		<div>PREPARED FOR</div> <div> KLAMATH RIVER RENEWAL CORPORATION</div>		<div>PROJECT</div> <div>KLAMATH RIVER RENEWAL PROJECT</div>		<div>PROJ #</div> <div>VA103-640/1</div>
								<div>DRAWN</div> <div>R. MARTIN</div>		<div>DATE</div> <div>05/27/2022</div>						
								<div>REVIEWED</div> <div>C. NIAMIR</div>		<div>DWG</div> <div>C1620</div>						
								<div>IN CHARGE</div> <div>N. BISHOP</div>								
								<div>APPROVED</div> <div>S. MOTTRAM</div>								
<div>0 ISSUED FOR CONSTRUCTION</div>						<div>LB CBNSRM05/27/22</div>										
<div>REV DESCRIPTION</div>						<div>BY CHK APP DATE</div>										

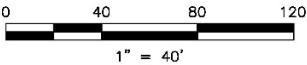




- LEGEND:**
- AREAS COVERED BY 1200C PERMIT
  - DRAINAGE CONCENTRATION POINT LARGE CULVERT
  - ENERGY DISSIPATER
  - STABILIZED BERM
  - TYPE 2 DRAINAGE SWALE
  - TYPE 3 DRAINAGE SWALE
  - SAFETY ZONE
  - LIMITS OF WORK

PLAN  
1" = 40'

ISSUED FOR CONSTRUCTION



0	ISSUED FOR CONSTRUCTION	LB	CBNSRM	05/27/22	
REV	DESCRIPTION	BY	CHK	APP	DATE

WARNING  
0 1/2 1  
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE



DESIGNED L. BUETIKOFER  
DRAWN R. MARTIN  
REVIEWED C. NIAMIR  
IN CHARGE N. BISHOP  
APPROVED S. MOTTRAM



PROJECT **KLAMATH RIVER RENEWAL PROJECT**  
SHEET TITLE J.C. BOYLE FACILITY  
FINAL EROSION AND SEDIMENT CONTROL  
FOREBAY AND SCOUR HOLE

PROJ # VA103-640/1  
DATE 05/27/2022  
DWG C1623







## **Appendix B**

### **California Erosion and Sediment Control Plan**

## **Klamath River Renewal Corporation**

### **California Erosion and Sediment Control Plan**

*To comply with the consultation requirements in the License Surrender Order, Ordering Paragraph (V), the California Erosion and Sediment Control Plan will be submitted at a later date.*

## **Appendix C**

### **Consultation Record**

## Consultation Record

Erosion and Sediment Control Plan			
Sub-Plan	Agency	Date of Agency Plan Submittal	Agency Comments Received Date
Oregon Erosion and Sediment Control Plan	Oregon Department of Environmental Quality	January 26, 2021 August 9, 2021 November 18, 2022	No Comments Received September 7, 2021 No Comments Received
	Oregon Department of Fish and Wildlife	January 26, 2021 September 2, 2021	No Comments Received No Comments Received
	Bureau of Land Management – Klamath Falls	Unknown August 9, 2021	April 15, 2021 No Comments Received
California Erosion and Sediment Control Plan	California State Water Resources Control Board	NA (Consulted on plan development) November 18, 2022	September 27, 2022 <i>pending</i>
	Hoopa Tribe, Yurok Tribe, and Karuk Tribe	NA (Consulted on plan development) November 18, 2022	No Comments Received <i>pending</i>