

# PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT MITIGATION MONITORING REPORT CPUC A.07-07-018

Prepared for:  
California Public Utilities Commission

November 2009





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California Public Utilities Commission  
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# 1. Introduction

PacifiCorp has completed construction of the Morrison Creek Substation a 69 kilovolt (kV) to 12.5 kV distribution substation in northwest Del Norte County approximately one quarter mile southeast of the community of Smith River, California, and has removed the nearby Simonson Substation. The objective of the Project was to increase system reliability in order to continue safe and reliable electric service to customers in the area.

As the lead agency for the PacifiCorp Morrison Creek Substation Project, the California Public Utilities Commission (CPUC) and its consultant, Environmental Science Associates (ESA), provided regulatory oversight during construction. In accordance with the Mitigated Negative Declaration (MND), ESA provided third-party oversight of PacifiCorp's compliance implementation and coordinated with PacifiCorp's environmental consultants. As third-party representatives, ESA's primary responsibility was to ensure adherence to the Project's environmental requirements and mitigation measures. This Final Mitigation Monitoring Report provides the CPUC with an administrative record of environmental compliance to applicable measures and conditions as identified in the MND.

This document is organized as follows:

- Project Overview Map
- Third Party Monitoring and Level of Effort
- Construction Methods and Schedule
- Environmental Training
- Compliance Monitoring Summary
- Variances
- Recommendations for Future Projects







Legend

- Existing Substation
- Proposed Substation
- Existing 69 kV Transmission Line

SOURCES: PacifiCorp (2007a)





## 2. Third Party Monitoring and Level of Effort

As the CPUC's designated consultant, ESA staff performed environmental review, compliance monitoring, and reporting on behalf of the CPUC during all phases of the Project. ESA's Environmental Monitors acted as the primary representatives in the field for ESA and the CPUC. They performed on-site compliance monitoring, analyzed PacifiCorp variance requests, and inspected the site in conjunction with PacifiCorp's designated environmental team. The ESA Environmental Monitors monitored compliance with all applicable project plans, agency permits, and mitigation measures of the CPUC. These monitors interacted with PacifiCorp's Environmental Inspectors, PacifiCorp's contractor construction managers, and PacifiCorp managers in the field to resolve compliance situations.

ESA's Project Manager oversaw the monitoring tasks as performed by ESA's monitors. The Project Manager provided guidance and recommendations to the environmental monitors on specific compliance issues in regards to the Project's environmental regulations and implementation of the mitigation measures described in the MND. In conjunction with the environmental monitors, the Project Manager participated in the variance review and approval process.

ESA's Project Manager also managed the third-party environmental monitoring tasks while ensuring the field personnel assigned to the Project provided consistent and well-informed compliance recommendations. The ESA Project Manager oversaw the resolution of complex and/or controversial field issues in coordination with PacifiCorp's Environmental Supervisor and PacifiCorp's environmental inspection staff.

During construction, ESA monitors conducted site visits initially on a full time basis for the first two weeks of construction then reduced to one to two days per week on a random basis. Major construction activities came to a close in November 2008 with the site essentially 99.5 percent complete. Site construction activities were restarted, and monitoring was conducted, beginning on August 25, 2009 until project completion on September 1, 2009.

## 3. Construction Methods and Schedule

### ***3.1 Construction Methods***

Construction of the Morrison Creek Substation began with the grading and removal of topsoil from the site. A grader was used to contour and compact the substation footprint. The graded area was backfilled with the excavated material that was re-usable and blended with granular imported fill. The surface was topped with finish rock to complete the site grading requirements. After grading, a fence was installed to secure the site. After fence installation, new concrete foundations, underground conduits, and the ground grid were installed followed by construction of the oil containment system and the steel structures, framing, and the electrical equipment.

Removal of Simonson Substation began once the Morrison Creek substation was completed and made operational. The transformer and other oil filled equipment were hauled from the Simonson

Substation site to PacifiCorp's Service Center in Medford, Oregon for storage. The two existing wood poles that tap the 69 kV power line and the 12.5 kV distribution circuit to the Simonson Substation were removed, including all subsurface portions of the poles. The poles were cut off near the ground surface, and then the buried portion of the poles was removed. The remaining holes were backfilled with clean fill material. The site was then finish graded and reseeded.

### **3.2 Schedule**

The approved MND identified July 2008 for the start of construction and concluding at the end of October 2008. The total construction schedule was anticipated to be approximately 4 months.

Construction activity began on August 11, 2008 with a kick-off environmental training for project managers, contractors, construction workers, environmental monitors, and other project-related personnel held on August 5, 2008. Activity continued into mid-November 2008 with the site essentially 99.5 percent complete. In winter 2009 PacifiCorp identified an engineering problem with the new substation that required some modifications to the design and installation. Between November 2008 and May 2009, PacifiCorp worked to develop an engineering solution to resolve this problem. Some minor work was performed in June 2009 and again in early August, at which time the Morrison Creek Substation was completed. Final monitoring during removal of the Simonson Substation started on August 25, 2009 on a periodic basis until September 1, 2009.

### **3.3 Challenges and Obstacles to On-Time Completion**

During construction, unforeseen complications often arise which can cause minor or sometimes significant delays to the Project's scheduled completion date. This project was no exception. Once major construction started in August 2008, although later than envisioned in the MND, construction proceeded smoothly and was nearly complete in November 2008. The major project delay to completion of the project was the need to address engineering issues at the new substation site. This caused a seven month slip to the completion schedule.

## **4. Environmental Training**

Prior to groundbreaking, PacifiCorp's environmental consultant prepared an environmental training program. The training program included an overview of the Project's regulatory and environmental commitments, sensitive species, and resource areas. See Appendix D for training documentation logs and training material.

At the kick-off meeting on August 5, 2008, this training program was presented to PacifiCorp, their contractors, CPUC and ESA representatives. As work began at the site, PacifiCorp's environmental monitor routinely conducted onsite environmental tailgate trainings for new construction and project personnel. New workers were also trained on the project Health and Safety Plan, Hazardous Substance Control Plan, and the Storm Water Pollution Prevention Plan (SWPPP).

All Project-related personnel received hard-hat decals indicating they had received the required training prior to working at on the jobsite(s). Throughout construction, ESA monitors conducted



quick inspections of hardhats to ensure construction personnel working on the job had been environmentally trained prior to beginning work.

## **5. Compliance Monitoring Summary**

### **5.1 Mitigation Measures**

Acting on behalf of the CPUC, ESA and PacifiCorp's staff conducted environmental site inspections to assess implementation of the Project's environmental requirements by PacifiCorp. As set forth in the MND, ESA and PacifiCorp's inspection and reporting program tracked compliance to the Project's environmental commitments and specific mitigation measures.

Prior to the start of construction, ESA reviewed the qualifications of PacifiCorp's monitors and specialists, pre-construction survey reports for nesting birds and sensitive species (California northern Red-legged frogs), in addition to the plans required by the MND including the SWPPP and the Hazardous Substance Control and Emergency Response Plan.

A designated PacifiCorp monitor was onsite daily to implement compliance. ESA monitors conducted site inspections (scheduled and unscheduled) throughout all phases of the Project's construction. Based upon these inspections, ESA wrote daily environmental monitoring reports summarizing construction progress and conformance to the Project's environmental commitments and mitigation measures.

As the implementation of many mitigation measures occurred prior to construction (during the design and pre-construction phase), conformance to the mitigation measures to be implemented during construction were monitored by PacifiCorp and ESA monitors. Mitigation measures are listed in Appendix A.

### **5.2 Reporting and Compliance Levels**

For all site inspections conducted by ESA, a daily monitoring report was written to track the progress of construction and to ensure the Project's environmental mitigation measures were being satisfactorily implemented (see Appendix B for ESA daily reports). These daily reports designated compliance levels to document compliance to the Project's environmental requirements and conditions. These compliance levels are:

- Acceptable - All mitigation measures were successful implemented;
- Incident - Event or construction activity where there was no direct or intended violation of the Project's mitigation measures);
- Minor Problem - Event or construction activity which occurred without implementation of one or more mitigation measures but resulted in no significant harm to the environment; and

- Non-Compliance - Event or construction activity which occurred without implementation of mitigation measures or Best Management Practices (BMPs) at a single location or at multiple Project locations.

These daily environmental monitoring reports documented site visits and also provided compliance recommendations or listed corrective actions required to bring the Project into compliance.

### **5.2.1 Positive Compliance**

In general, the environmental compliance by PacifiCorp was very good. As indicated in this report, there were very few incidents and minor problems and these were of the type normally experienced once or twice initially on most construction projects of any size.

All workers from PacifiCorp, ESA and the contractors received training for how to identify cultural resources of significance; however no pre-historic or historic resources were discovered throughout the course of this project.

### **5.2.2 Incidents**

Throughout construction, unanticipated or unintentional events occurred that were out of compliance with one or more of the mitigation measures. In these cases, the Project crews responded quickly and in an appropriate manner to the situation. While an Incident was noted in the daily environmental monitoring report, no further action or follow-up was necessary or required. The situation was appropriately addressed and the Project returned to acceptable compliance levels. Three Incident occurrences were noted during construction of the Project, as described below:

- Incident (8/12/08) associated with the state of disrepair of silt/frog exclusion fence on the south swale at the project site;
- Incident (8/13/08) associated with the unsuccessful repair of the silt/frog exclusion fence on the south swale at the project site; and
- Incident (10/9/08) associated with distance vehicles should be fueled away from the creek bed (was observed being done less than the required distance of 500 feet).

These incidents included repair of wildlife exclusion fencing and attention to proper vehicle fueling procedures. During each of these events, PacifiCorp's construction crews and environmental team responded in a quick and appropriate manner to prevent impact to resources.

### **5.2.3 Minor Problems and Resolution**

Minor Problems were noted when the Project violated one of the mitigation measures but no significant harm to the environment occurred. If several Minor Problems were noted for the same type of repeated violation, an environmental Non-Compliance Report (NCR) was issued to the project. Three Minor Problems occurred throughout the duration of the project, none required filing of a NCR:

- Minor Problem (8/14/08) associated lack of a tarp to contain fuel spills during equipment fueling;
- Minor Problem (8/18/08) associated with the installation of the silt fence to the south of the construction area. The silt fence was noted to be inadequate to barrier to exclude northern red-legged frogs; and
- Minor Problem (9/25/08) associated with clean up of oil spots and a broken hydraulic line on an excavator.

Each event or activity that received a Minor Problem designation was resolved through discussions with PacifiCorp's onsite inspector or the onsite monitor, who provided recommendations to the appropriate construction foreman or manager. All minor problems on the Project were resolved through immediate corrective action taken by PacifiCorp and their contractor.

#### **5.2.4 Non-Compliance Events and Resolution**

No non-compliance events occurred.

## **6. Variances**

Prior to CPUC approval of variances, ESA role was to evaluate the activity locations and proposed construction methods to assess potential impacts to air quality, cultural resources, biological resources, and water quality. Each variance request also reviewed the applicable geology, noise, traffic, and hazardous material measures. PacifiCorp submitted one variance request during the Project, and it received CPUC approval.

**Variance Request 1:** The original design showed the transformer offset from the incoming tap line. PacifiCorp found that it was better to install the transformer in line with the incoming tap line. PacifiCorp also found that an additional 50 foot pole was required as part of the distribution circuit. Also the MDN identified a tubular steel transmission pole in the project description, but found that a wooden pole would be more effective. The variance was reviewed and approved by the CPUC and there were no environmental compliance concerns.

See Appendix D for variance documentation submitted by PacifiCorp and reviewed by ESA and the CPUC.

## **7. Recommendations for Future Projects**

The initial two week period of daily monitoring contributed to addressing potential problems early leading to successful environmental compliance. The subsequent approach of conducting unannounced, periodic monitoring was successful and should be considered on future projects once an acceptable compliance ethic is established at the site.



# **APPENDIX A**

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## **Mitigation Measures**



**As the third-party monitoring body for PacifiCorp, ESA oversaw the implementation of mitigation measures requiring weekly inspection, as described below. The following are referenced from the Final Mitigated Negative Declaration for the Morrison Creek Substation Project.**

## **Aesthetics**

**Mitigation Measure 2.1-1:** Landscaping shall be installed outside the perimeter fence at the Morrison Creek Substation to partially screen views from Highway 101 and to integrate the Morrison Creek Substation's appearance with the surrounding landscape.

Plant material shall be appropriate to the local/natural landscape setting and shall be consistent with Public Resources Code Section 4292 for vegetation located in proximity to transmission facilities. A landscape plan prepared by a licensed landscape architect or certified arborist shall be submitted to the CPUC. The landscape plan shall show the location, suggested species and size at planting for all proposed plant material. The plan shall also show proposed landscaping in relation to the final placement of the tap pole and substation perimeter fence. The plan shall be submitted to, reviewed and approved by the CPUC prior to commencement of construction.

**Mitigation Measure 2.1-2:** A non-reflective or weathered finish shall be applied to all new structures and equipment installed at the Morrison Creek Substation to reduce potential glare effects.

## **Biological Resources**

**Mitigation Measure 2.4-1:** To minimize or avoid impacts to the northern red-legged frog, preconstruction surveys for the species should occur throughout the Proposed Project site two weeks or less before removing vegetation or carrying out ground-disturbing activities. Pre-construction surveys shall be carried out by a qualified biologist familiar with northern red-legged frog identification and ecology. These are not intended to be protocol-level surveys but designed to clear an area so that individual northern red-legged frogs are not present within the Proposed Project site prior to the initiation of construction. Once the site is cleared it shall be fenced in such a way as to exclude northern red-legged frog for the duration of proposed construction activities. Methods for pre-construction surveys and site fencing shall be developed prior to the start of construction.

**Mitigation Measure 2.4-2:** Direct disturbance, including tree and shrub removal or nest destruction by any other means, or indirect disturbance (e.g., noise, increased human activity in area, etc.) of active nests of raptors and other special-status bird species within or in the vicinity of the proposed Morrison Creek Substation site or in the vicinity of the existing Simonson Substation site shall be avoided in accordance with the following procedures for Pre-Construction Special-Status Avian Surveys and Subsequent Actions. No more than two weeks in advance of any tree or shrub removal or ground-disturbing activity that will commence during the breeding season (i.e., February 1 through July 31), a qualified wildlife biologist shall conduct pre-construction surveys of all potential special-status bird nesting habitat in the vicinity of the planned activity. Pre-construction surveys are not required for construction activities scheduled to occur during the non-breeding season (i.e., August 1 through January 31). Depending on the survey findings, the following actions shall be taken to avoid potential adverse effects on nesting special-status nesting birds:

- If pre-construction surveys indicate that no nests of special-status birds are present or that nests are inactive or potential habitat is unoccupied, no further mitigation shall be required.
- If active nests of special-status birds are found during the surveys, the results of the surveys shall be forwarded to CDFG (as appropriate) and avoidance procedures shall be adopted, as determined necessary by CDFG, on a case-by-case basis. These can include construction buffer areas up to several hundred feet in the case of raptors, relocation of birds, or seasonal avoidance. If buffers are created, a no disturbance buffer zone shall be created around active nests during the breeding season or until a qualified biologist determines that all young have fledged. The size of the buffer zones and types of construction activities restricted within them shall be determined through consultation with the CDFG taking into account factors such as the following:
  - a. Noise and human disturbance levels at the Proposed Project site and the nesting site at the time of the survey and the noise and disturbance expected during the construction activity;
  - b. Distance and amount of vegetation or other screening between the Proposed Project site and the nest; and
  - c. Sensitivity of individual nesting species and behaviors of the nesting birds.
- Construction activities commencing during the non-breeding season and continuing into the breeding season do not require surveys because it is assumed that any breeding birds taking up nests would be acclimated to Proposed Project-related activities already under way. However, if trees and shrubs are to be removed during the breeding season, the trees and shrubs shall be surveyed for nests prior to their removal, according to the survey and protective action guidelines described in a through c, in the bullet above.
- Nests initiated during construction activities would be presumed to be unaffected by the construction activity, and a buffer zone around such nests would not be necessary.
- Destruction of active nests of special-status birds and overt interference with nesting activities of special-status birds shall be prohibited.

**Mitigation Measure 2.4-3:** Areas outside the fenced area of Morrison Creek Substation that will be disturbed by Proposed Project construction activities shall be re-vegetated with native shrubs, trees, and/or grasses. Removal of native trees and shrubs shall be minimized.

**Mitigation Measure 2.4-4:** The Morrison Creek substation as well as any associated transmission and distribution line configurations should be designed as recommended in the PacifiCorp Bird Management Program Guidelines (PacifiCorp, 2006), or along recommendations provided by the Avian Power Line Interaction Committee. This shall minimize the chance for electrocution of protected raptors and other protected bird species and provide for a reporting system of any incidental bird mortalities resulting from the Morrison Creek Substation and its associated structures.



## Cultural Resources

**Mitigation Measure 2.5-1:** In the event that any prehistoric or historic subsurface cultural resources are discovered during ground disturbing activities, all work within 50 feet of the resources shall be halted and PacifiCorp and/or the CPUC shall consult with a qualified archaeologist to assess the significance of the find. If any find is determined to be significant, representatives of PacifiCorp and/or the CPUC and the qualified archaeologist shall meet to determine the appropriate avoidance measures or other appropriate mitigation, with the ultimate determination to be made by the CPUC. All significant cultural materials recovered shall be subject to scientific analysis, professional museum curation, as necessary, and a report prepared by a Specialist according to current professional standards.

In considering any suggested mitigation proposed by the consulting archaeologist in order to mitigate impacts to historical resources or unique archaeological resources, the CPUC shall determine whether avoidance is necessary and feasible in light of factors such as the nature of the find, Proposed Project design, costs, and other considerations. If avoidance is infeasible, other appropriate measures (e.g., data recovery) shall be instituted. Work may proceed on other parts of the Proposed Project site while mitigation for historical resources or unique archaeological resources is carried out.

If the CPUC, in consultation with the qualified archaeologist, determines that a significant archeological resource is present and that the resource could be adversely affected by the Proposed Project, the CPUC shall require PacifiCorp to:

- Re-design the Proposed Project to avoid any adverse effect on the significant archeological resource; or
- Implement an archeological data recovery program (ADRP) unless the qualified archaeologist determines that the archeological resource is of greater interpretive use than research significance, and that interpretive use of the resource is feasible. If the circumstances warrant an ADRP, such a program shall be conducted. The project archaeologist and the CPUC shall meet and consult to determine the scope of the ADRP. The archaeologist shall prepare a draft ADRP that shall be submitted to the CPUC for review and approval. The ADRP shall identify how the proposed ADRP would preserve the significant information the archeological resource is expected to contain. That is, the ADRP shall identify the scientific/historical research questions that are applicable to the expected resource, the data classes the resource is expected to possess, and how the expected data classes would address the applicable research questions. Data recovery, in general, should be limited to the portions of the historical property that could be adversely affected by the Proposed Project. Destructive data recovery methods shall not be applied to portions of the archeological resources if nondestructive methods are practical.

**Mitigation Measure 2.5-2:** In the event of an unanticipated paleontological discovery during construction, excavations within 50 feet of the find shall be temporarily halted or diverted until the discovery is examined by a qualified paleontologist per up to date Society of Vertebrate Paleontology standards. The discovery shall be documented as needed, the potential resource evaluated, and the significance of the find shall be assessed under the criteria set forth in Section 15064.5 of the CEQA Guidelines. The paleontologist shall notify the appropriate agencies to determine procedures that would be followed before construction is allowed to resume at the location of the find. If the CPUC determines that

avoidance is not feasible, the paleontologist shall prepare an excavation plan for mitigating the effect of the Proposed Project on the qualities that make the resource important, and such plan shall be implemented. The plan shall be submitted to the CPUC for review and approval.

**Mitigation Measure 2.5-3:** In the event that human skeletal remains are uncovered during Proposed Project construction or demolition activities, PacifiCorp shall immediately halt all work, contact the Del Norte County Coroner to evaluate the remains, and follow the procedures and protocols pursuant to Section 15064.5 (e)(1) of the CEQA Guidelines. If the County Coroner determines that the remains are Native American, PacifiCorp shall contact the California Native American Heritage Commission, pursuant to subdivision (c) of Section 7050.5 of the Health and Safety Code, and all excavation and site preparation activities shall cease until appropriate arrangements are made. The Native American Heritage Commission shall assign a Most Likely Descendant, who shall have the right to access the find and provide a recommendation for treatment of the remains to the property owner, PacifiCorp, and the CPUC.

## **Hazards and Hazardous Materials**

**Mitigation Measure 2.7-1a:** PacifiCorp and/or its contractor(s) shall implement construction best management practices including but not limited to the following:

- Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction;
- Avoid overtopping construction equipment fuel gas tanks;
- Use tarps and adsorbent pads under vehicles when refueling to contain and capture any spilled fuel;
- During routine maintenance of construction equipment, properly contain and remove grease and oils; and
- Properly dispose of discarded containers of fuels and other chemicals.

**Mitigation Measure 2.7-1b:** PacifiCorp shall prepare a Hazardous Substance Control and Emergency Response Plan (Plan) and implement it during construction to ensure compliance with all applicable federal, State, and local laws and guidelines regarding the handling of hazardous materials. The Plan shall prescribe hazardous material handling procedures to reduce the potential for a spill during construction, or exposure of the workers or public to hazardous materials. The Plan shall also include a discussion of appropriate response actions in the event that hazardous materials are released or encountered during excavation activities. The Plan shall be submitted to the CPUC for review and approval prior to the commencement of construction activities.

**Mitigation Measure 2.7-1c:** PacifiCorp shall prepare and implement a Health and Safety Plan to ensure the health and safety of construction workers and the public during construction. The Plan shall include information on the appropriate personal protective equipment to be used during construction. In addition, the Plan shall address emergency medical services in the case of an emergency. The Plan shall list procedures and specific emergency response and evacuation measures that would be required to be followed during

emergency situations. PacifiCorp shall prepare the Plan and distribute it to all construction crew members involved in the project prior to construction and operation of the Proposed Project.

**Mitigation Measure 2.7-1d:** PacifiCorp shall establish and implement a Workers Environmental Awareness Plan (WEAP) to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program shall emphasize site-specific physical conditions to improve hazard prevention, and shall include a review of the Health and Safety Plan and the Hazardous Substance Control and Emergency Response Plan. PacifiCorp shall submit documentation to the CPUC mitigation monitor prior to the commencement of construction activities that each worker on the Proposed Project has undergone this training program.

**Mitigation Measure 2.7-1e:** PacifiCorp shall ensure that oil-absorbent material, tarps, and storage drums shall be used to contain and control any minor releases. Emergency spill supplies and equipment shall be kept at the project staging area and adjacent to all areas of work, and shall be clearly marked. Detailed information for responding to accidental spills and for handling any resulting hazardous materials shall be provided in the Proposed Project's Hazardous Substance Control and Emergency Response Plan (see Mitigation Measure 2.7-1b), which shall be implemented during construction.

**Mitigation Measure 2.7-2:** PacifiCorp's Hazardous Substance Control and Emergency Response Plan shall include provisions that would be implemented if any subsurface hazardous materials are encountered during construction. Provisions outlined in the plan shall include immediately stopping work in the contaminated area and contacting appropriate resource agencies, including the CPUC designated monitor, upon discovery of subsurface hazardous materials. The plan shall include the phone numbers of local, regional, and State agencies and primary, secondary, and final cleanup procedures. The Hazardous Substance Control and Emergency Response Plan shall be submitted to the CPUC for review and approval prior to the commencement of construction activities.

**Mitigation Measure 2.7-3:** Water storage containers or water trucks shall be sited/constantly on-site in the Proposed Project area and be available for fire protection. All construction vehicles and work areas shall have fire suppression equipment and construction personnel shall be required to park vehicles away from dry vegetation. PacifiCorp shall contact and coordinate with the Smith River Fire Protection District (SRFPD) and the California Department of Forestry and Fire Protection (Cal-Fire) to determine the minimum amounts of fire equipment to be located at the construction site and appropriate locations for the water tanks. PacifiCorp shall submit verification of its consultation with SRFPD and Cal-Fire to the CPUC.

## Noise

**Mitigation Measure 2.11-1:** Construction activity shall be limited to the least noise-sensitive daytime hours between 7:00 a.m. and 8:00 p.m., with some exceptions (as approved by the CPUC) as required for safety considerations or certain construction procedures that cannot be interrupted.

## Utilities and Service Systems

**Mitigation Measure 2.16-1:** PacifiCorp shall ensure that Underground Service Alert is notified at least two working days prior to initiation of construction activities that require subsurface ground disturbance so that Underground Service Alert can verify the location of all existing underground facilities and alert the other utilities to mark their facilities in the area of anticipated construction activities.

## **APPENDIX B**

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### **ESA Daily Environmental Monitoring Reports**



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/12/08

**Report Code:** 081208\_bco

**Compliance Level:** ☐ Acceptable ☒ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at 0800 with onsite manager, electrical work contractor, and Frank Galea for bio training. Construction workers arrived at around 1030 and 1200 and training began around 1200. After training, an excavator was used to flatten out an area north of the transmission station site near a designated area for a dump truck to haul and safely dump loads of debris. An excavator was then used to remove 2 of the three roads that run through the transmission line site. The excavator drove along the road and scraped the top layer of asphalt off and put into and dump trunk that ran between the transmission line site and the waste dumping area.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Several pieces of equipment were parked north of the transmission site and were in compliance with hazardous materials protocols. Frank Galea pointed out a frog exclusion fence at drainage swale south of transmission site in disrepair; a large section had been knocked over by an elk herd moving through the area. No future course of action was planned, and it was noted that the hardpan soil was difficult to drive silt fence stakes into.

**Recommendations:** Wildlife exclusion fence should be repaired. Construction workers mentioned installing silt fencing, and installation of such fencing where the exclusion fence now stands could serve the purpose of an exclusion fence.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/12/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/13/08

**Report Code:** 081308\_bco

**Compliance Level:** ☐ Acceptable ☒ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Work began at approximately 0700. Crew continued to grade project area, removing asphalt and top layers of vegetation and soil from surface using excavator and dump truck. Several large and many small trees were removed from the project area. One willow and two fir trees on the western edge of the project area were removed because they were within 10 feet of the future fence line.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Initial attempts to fix frog exclusion fence failed due to hard soils that could not be dug by hand. An excavator was brought into the area near the creek and three small holes were dug to hammer posts into. Excavator work near the creek and out of the project area was closely monitored. Fence was successfully repaired. An excavator was refueled approximated 300 feet from the stream bed and no visible tarp or pad was placed underneath fuel site. Mentioned this to on-site manager (Len).

**Recommendations:** Suggested to Len that he ask crew to fuel equipment in designated area that is 500 feet from streambed and to use a pad or tarp below fueling site.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/13/08



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/14/08

**Report Code:** 081408\_bco

**Compliance Level:** ☐ Acceptable ☐ Incident ☒ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Work began at approximately 0700. Crew continued to clear project area, removing top layers of vegetation and soil from surface using excavator and dump truck. Areas cleared were two vegetated "islands" between roads inside project area as well as edge areas of future fenceline. Several small trees were removed as well.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Water truck used frequently on roads and areas about to be cleared to reduce dust. When excavator was refueled near end of day, crew was reminded to move equipment 500 feet away and use a tarp to contain fuel. Due to a miscommunication with the head foreman (Art), a tarp was not available. Crew pulled equipment 500 feet away but fueled without tarp underneath equipment. One field mouse was accidentally killed with excavator while clearing vegetation from site.

**Recommendations:** Told Len that a tarp needs to be obtained to fuel in order to comply with mitigation measures. General monitoring of vegetation removal is recommended to prevent unnecessary impacts to ground and underground - dwelling wildlife species.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/14/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/15/08

**Report Code:** 081508\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Work began at approximately 0700. Crew continued to clear project area, removing top layers of vegetation and soil from surface using excavator and dump truck. Center area was cleared after Thursday; today areas near the fence perimeter and drainage ditch on the southern edge of the project area were cleared.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Water truck used frequently on roads and areas about to be cleared to reduce dust. Areas cleared on the southern edge of the project area were monitored closely for NRLF. One field mouse was injured and one garter snake was killed during vegetation clearing, and several others were observed and herded from excavation clearing area. While clearing vegetation on the western edge of the project area adjacent to Highway 101, a large amount of tar paper or tar roofing was discovered shallowly buried. Construction was stopped and the mixed load containing the waste materials was dumped in a separate area on asphalt. After consulting with the project manager (John), it was decided to leave the waste and only clear vegetation from the area. A discussed solution was to dump the waste separately and haul it to the nearest proper disposal area. Project inspector (Len) and contractor (Stacey) mentioned the slim possibility of asbestos contamination.

**Recommendations:** Despite difficulties detecting mice and snakes in ground clearing, monitoring vegetation clearing is recommended to prevent unnecessary harm.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/15/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/16/2008

**Report Code:** 081608\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Crew was using excavator and dump truck to begin digging drainage ditch along the southern site of construction area. Initial digging was for correct depth and slope, and later construction crew mentioned they would need to lessen the slope on the sides of the trench to a 2:1 ratio. Most excavator activity was on previously cleared and grubbed area, but part of the excavator did disturb vegetated ground. Drainage ditch ran alongside potential NRLG habitat and was monitored closely.

No special status species observed.

**General Summary of Mitigation Compliance and Site Conditions:** Compliance was good; excavator was re-fueled in the early morning more than 500 feet away from the dry creek bed and over a tarp. Very little wildlife on site.

**Recommendations:** No recommendations at this time.

**Issue Status:** No outstanding issues to report.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Bryan Olney	BCO	8/17/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** August 18, 2008

**Report Code:** 081808\_RJM (e.g., 072308\_tar)

**Compliance Level:** ☐ Acceptable ☐ Incident ☒ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### **Construction Activity(s) Being Monitored:**

Site grading and layout of construction designs on the ground. Grading was restricted to areas that have already been cleared of vegetation, so there was no further physical disturbance to surrounding vegetation

### **General Summary of Mitigation Compliance and Site Conditions:**

No special status species were observed on site. Overall, there was little activity on site as it was overcast and cool. Turkey vultures (*Cathartes aura*), violet-green swallows (*Tachycineta thalassina*), cedar wawings (*Bombycilla cedrorum*), and dark eyed juncos (*Junco hyemalis*) were observed, but no nests were located. A silt fence had been constructed to the south of the construction site, protecting a drainage ditch from sediment. However the fabric was not dug into ground due to the difficulty of penetrating the extremely hard, rocky surface, nor was it held down by soil or rocks. This leaves a gap at the base through which both sediment and frogs can travel. Also, since fencing is only located on part of the south side of the site, it is not an effective barrier for northern red-legged frogs. Mitigation Measure 2.4-1 states that "once the site is cleared it shall be fenced in such a way as to exclude northern red-legged frog for the duration of proposed construction activities." The current silt fence is insufficient to meet these requirements.

### **Recommendations:**

Silt fencing needs to be expanded and improved in order to fulfill mitigation requirements.

### **Issue Status:**

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Rosanna McGuire		08/18/2008

**PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT  
CPUC DAILY ENVIRONMENTAL MONITORING REPORT**

**Date:** August 20, 2008

**Report Code:** 082008\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:**

Digging of roadway around site perimeter.

**General Summary of Mitigation Compliance and Site Conditions:**

No special status species were observed on site. It was rainy and windy throughout the day and there was little on-site activity. No additional compliance issues other than the silt fence identified yesterday.

**Recommendations:**

**Issue Status:**

As mentioned on 081908, the silt fence on the south side of the site was not sealed into the ground at the base. It is not required to extend the fence around the construction site, according to the recommendations made by Galea Wildlife Consultations in the *Status Report for Site Clearance*.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Rosanna McGuire	RJM	08/18/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** August 21, 2008

**Report Code:** 082108\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:

Completion of roadway around site perimeter and excavation of containment pit.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. There are a large number of turkey vultures (*Cathartes aura*) observed flying over the construction site. There is likely a nest on a nearby hilltop, though this has not been identified. Other species observed were dark-eyed junco (*Junco hyemalis*), black-capped chickadees (*Poecile atricapillus*), Wilson's warbler (*Wilsonia pusilla*), and MacGillivray's warbler (*Oporornis tolmiei*).

### Recommendations:

### Issue Status:

Silt fence still needs to be sealed into the ground.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire	RJM	08/18/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/28/08

**Report Code:** 082808\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at approximately 0720. Crew began day filling outside edges of a hole in middle of site to capture oil from transformer. An excavator and a skip loader were used to dump gravel into the hole, where it was spread and compacted with a gas-powered tamper. Later, road leading into transformer site was graded with an excavator and dump truck. Surface asphalt from road directly behind gate was removed.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Water truck used on roads and areas about to be cleared to reduce dust. Minor drips from one vehicle observed and on-site manager will be notified to advise crew to use pads to catch leaks. One of the holes dug onsite to catch oil from the transformer had steep sides and was not ramped, but connected to another larger hole that had less steep slopes. Overall compliance good.

**Recommendations:** No recommendations at this time.

**Issue Status:** No outstanding issues to report.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Bryan Olney	BCO	8/28/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

Date: September 4, 2008

Report Code: 090408\_RJM

Compliance Level: ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

Compliance Advisory or Non-Compliance Report form attached? ☐ Yes ☒ No

Photo Documentation? ☐ Yes ☒ No (Attach a photo log)

### Construction Activity(s) Being Monitored:

Excavation of channels for oil containment. Installation of oil containment pipes and copper conduit.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. One common garter snake (*Thamnophis sirtalis*) was observed at the south western edge of the site, next to highway 101. Bird species observed were turkey vultures (*Cathartes aura*), black-capped chickadees (*Poecile atricapillus*), and MacGillivray's warblers (*Oporomis tolmiei*). An *Accipiter*-like hawk, potentially a sharp-shinned hawk (*Accipiter striatus*), was spotted in the grove of *Eucalyptus* trees at the north end of the site.

### Recommendations:

### Issue Status:

Silt fence still needs to be sealed into the ground.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		09/04/2008



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 9/11/08

**Report Code:** 091108\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at approximately 0700. Crew finished construction of footings and rebar for concrete pouring to create transformer pad in center of site. A large concrete pump and several concrete trucks were used to pour between 30 and 40 yards of concrete to form pad. Crew worked below spreading and smoothing concrete.

A trench about 6 inches deep and 1 foot wide was dug with a small excavator for installation of copper pipe and PVC pipe for ground grid and transmission line.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Overall compliance good. No work was done in any sensitive areas. One red-shouldered hawk and three red-tailed hawks were observed onsite.

**Recommendations:** No recommendations at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/28/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** September 18, 2008

**Report Code:** 091808\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:

Channel excavation, laying copper conduits, filling trenches, construction of cement pads for regulator and transformer.


### General Summary of Mitigation Compliance and Site Conditions:

Overall compliance is very good. The site is kept very clean by contractors. There is no litter and supplies are neat and orderly.

No special-status species were observed on site. Bird species observed were Turkey vultures (*Cathartes aura*), Band-tailed pigeons (*Patagioenas fasciata*), Stellar's jays (*Cyanocitta stelleri*), Yellow warblers (*Dendroica petechia*), a California quail (*Callipepla californica*), and a Red-tailed hawk (*Buteo jamaicensis*). Other species observed were common garter snake (*Thamnophis sirtalis*), and vole (*Microtus sp.*). None of these species was observed in the immediate construction area, but are found in the surrounding paved area with patches of trees and shrubs.

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		09/18/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/29/08

**Report Code:** 082908\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at approximately 0700. Crew used excavator and two dump trucks to load asphalt piled near Rowdy Creek and haul it offsite approximately six miles north on highway 101. Left site at approximately 1200.

No special status species were observed.

**General Summary of Mitigation Compliance and Site Conditions:** Overall compliance good. Construction activity was monitored closely due to proximity to Rowdy Creek and a small dry drainage parallel to Rowdy Creek. Reminded excavator operator of fueling issues, but no fueling was necessary. Three red-shouldered hawks, possibly juveniles, were observed foraging in the area.

**Recommendations:** No recommendations at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	8/28/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 9/25/08

**Report Code:** 092508\_bco

**Compliance Level:** ☐ Acceptable ☐ Incident ☒ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at approximately 0700. Crew prepared smaller concrete area for concrete pouring of pad, tying rebar and nailing plywood for walls. Dirt was also trucked in, spread along fenceline, and compacted with a steamroller. Large rebar tubes were also being tied on concrete area east of site.

**General Summary of Mitigation Compliance and Site Conditions:** Several areas where large construction vehicles and trucks were parked contained oil spots in soil. I advised onsite inspector (Len Conlee) of issue, and a worker was asked to clean up oil spots. Contaminated soil was shoveled and disposed of in hazardous waste container. Len was informed that workers should use containment pads to prevent minor leaks from equipment.

Len also informed me of a broken hydraulic line on excavator that occurred last Wednesday. He estimated that less than one gallon of oil was released, and it was cleaned up and contained in an oil drum. Len said he informed PacifiCorp's hazardous materials specialist.

No special status species were observed.

**Recommendations:** Reiteration of containment of minor oil and fuel leaks from vehicles with pads was made. Continued monitoring of issue is advised.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	9/25/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 9/26/08

**Report Code:** 092608\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** Arrived onsite at approximately 0700. Crew continued to prepare smaller concrete area for concrete pouring of pad by nailing plywood for concrete pouring of outside walls. Dirt was also trucked in, spread around outside edges of site, and compacted with a steamroller. Large rebar tubes were also being tied on concrete area east of site. Left site around 1100.

**General Summary of Mitigation Compliance and Site Conditions:** No issues to report: overall compliance good.

No special status species were observed.

**Recommendations:** No recommendations at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	9/26/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** October 2, 2008

**Report Code:** 100208\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:

Preparing trenches for pipe installation, pouring concrete, and pumping water.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. The weather was overcast and rainy for most of the day. A large flock of cedar waxwings (*Bombycilla cedrorum*) was observed in the east end of the site next to Rowdy Creek. Other species observed were turkey vultures (*Cathartes aura*), dark-eyed juncos (*Junco hyemalis*), chestnut-backed chickadees (*Poecile rufescens*), Stellar's jay (*Cyanocitta stelleri*), American robin (*Turdus migratorius*), and Say's phoebe (*Sayornis saya*).

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire	RJM	10/02/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 10/09/08

**Report Code:** 100908\_bco

**Compliance Level:** ☐ Acceptable ☒ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0645. Naes Power workers were erecting the above ground towers for supporting overhead wires and installing copper wires around both concrete pads for the ground grids. Other workers were grading and compacting areas surrounding the concrete pads. Areas directly surrounding the concrete pads were being filled and compacted as well using a large and small excavator, and trackhoe, and several wackers.

**General Summary of Mitigation Compliance and Site Conditions:** ESA reminded onsite foreman (Len) that vehicles should be fueled 500 feet away from the creekbed over a tarp. Len mentioned that they fueled within 500 feet earlier in the day, and he would remind him.

A pair of red tailed hawks were observed several times flying over the hill to the southeast of the project site. Around 1200, a bald eagle was also observed flying over the site.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Bryan Olney	BCO	10/9/08

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 10/10/08

**Report Code:** 101008\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Naes Power workers were installing conduit on many of the trenches on the south side of the concrete pads and connecting lines of the copper ground grid. Other workers were grading and compacting areas surrounding the concrete pads. Areas directly surrounding the concrete pads were being filled and compacted as well using a large and small excavator, and trackhoe, and several wackers.

**General Summary of Mitigation Compliance and Site Conditions:** Overall compliance good.

One red tailed hawk sighted over large hill to south east of the site.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney	BCO	10/10/08



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** October 13, 2008

**Report Code:** 101308\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:


Laying copper conduits, backfilling, pouring concrete, grading, and installing fence posts.

### General Summary of Mitigation Compliance and Site Conditions:

Overall compliance is very good. The site is clean and well maintained. No special-status species were observed on site. Bird species observed were Stellar's jays (*Cyanocitta stelleri*), a flock of crows (*Corvus brachyrhynchos*), Say's phoebe (*Sayornis saya*), Song sparrows (*Melospiza melodia*), Dark-eyed juncos (*Junco hyemalis*), Chestnut-backed chickadees (*Poecile rufescens*), and a Red-tailed hawk (*Buteo jamaicensis*). A young black-tailed deer (*Odocoileus hemionus*) was also observed at the west end of the site. None of these species was observed in the immediate construction area, but were found in the surrounding paved area with patches of trees and shrubs.

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		10/13/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** October 23, 2008

**Report Code:** 102308\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☒ Yes ☐ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:

Installing perimeter fence, landscaping, building roadway, and installing aboveground electrical structure.

### General Summary of Mitigation Compliance and Site Conditions:


Overall compliance is very good. The site is clean and well maintained. No special-status species were observed on site. Bird species observed were Stellar's jays (*Cyanocitta stelleri*), crows (*Corvus brachyrhynchos*), ravens (*Corvus corax*), dark-eyed juncos (*Junco hyemalis*), chestnut-backed chickadees (*Poecile rufescens*), turkey vultures (*Cathartes aura*), wrentit (*Chamaea fasciata*), California thrasher (*Toxostoma redivivum*), and a red-tailed hawk (*Buteo jamaicensis*). None of these species was observed in the immediate construction area, but were found in the surrounding paved area with patches of trees and shrubs.

One of the species used for landscaping may be pampas grass (*Cortaderia selloana*), though the young plants lack the large plumes. This species is highly invasive and will be detrimental to the native biological community.

### Recommendations:

Landscaping species should be confirmed and reviewed for suitability. If pampas grass is being used, it should be removed immediately.

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		10/23/2008

## **PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL PHOTO LOG**

**Page 1 of 1**

**Date: 10/23/2008**

**Corresponding Daily Report Code (102308\_RJM):**

**Please include descriptive information for each picture (event, stationing, location, etc.):**

Pic 01: Construction progress (DSCF1298.jpg).



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** October 31, 2008

**Report Code:** 103108\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☒ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:

Installing aboveground electrical structure.


### General Summary of Mitigation Compliance and Site Conditions:

Overall compliance is very good. No special-status species were observed on site. Bird species observed were Stellar's jays (*Cyanocitta stelleri*), crows (*Corvus brachyrhynchos*), dark-eyed juncos (*Junco hyemalis*), chestnut-backed chickadees (*Poecile rufescens*), turkey vultures (*Cathartes aura*), ruby-crowned kinglets (*Regulus calendula*), and a northern pygmy owl (*Glaucidium gnoma*). None of these species was observed in the immediate construction area, but were found in the surrounding paved area with patches of trees and shrubs. Three mule deer (*Odocoileus hemionus*) were also observed along the western edge of the property.

### Recommendations:

### Issue Status:

The grass species mentioned in the October 23 report was identified as bear grass (*Xerophyllum tenax*), not pampas grass (*Cortaderia selloana*).

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		10/31/2008

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** November 19, 2008

**Report Code:** 111908\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:


Installing aboveground electrical components

### General Summary of Mitigation Compliance and Site Conditions:

Overall compliance is very good. The site is clean and well maintained. No special-status species were observed on site, however a contractor reported seeing a northern red-legged frog (*Rana aurora*) just outside of the construction area the previous week. Identification could not be confirmed, but the frog was reportedly moved away from the construction site. Bird species observed were Stellar's jays (*Cyanocitta stelleri*), western scrub-jay (*Aphelocoma californica*), killdeer (*Charadrius vociferous*), a flock of crows (*Corvus brachyrhynchos*), fox sparrows (*Passerella iliaca*), dark-eyed juncos (*Junco hyemalis*), black-capped chickadees (*Poecile atricapilla*), wrentit (*Chamaea fasciata*), horned larks (*Eremophila alpestris*), and red-tailed hawks (*Buteo jamaicensis*). None of these species was observed in the immediate construction area, but were found in the surrounding paved area with patches of trees and shrubs.

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		11/19/2008



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** June 9, 2009

**Report Code:** 060909\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (Attach a photo log)

**Construction Activity(s) Being Monitored:**


Excavation of conduit.

**General Summary of Mitigation Compliance and Site Conditions:**

No special status species were observed on site. Bird species observed were: Allen's hummingbirds (*Selasphorus sasin*), song sparrows (*Melospiza melodia*), crows (*Corvus brachyrhynchos*), turkey vultures (*Cathartes aura*), American goldfinchs (*Carduelis tristis*), California quails (*Callipepla californica*), cedar waxwings (*Bombycilla cedrorum*), a red-tailed hawk (*Buteo jamaicensis*), black-headed grosbeaks (*Pheucticus melanocephalus*), Stellar's jays (*Cyanocitta stelleri*), lazuli buntings (*Passerina amoena*), mourning doves (*Zenaidura macroura*), killdeer (*Charadrius vociferus*), barn swallows (*Hirundo rustica*), and violet-green swallows (*Tachycineta thalassina*). No birds nests were observed in the vicinity of the new substation, however there are likely nesting birds within the dense patches of blackberry bushes in the center of the property.

**Recommendations:**

**Issue Status:**

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Rosanna McGuire		06/09/2009

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** June 10, 2009

**Report Code:** 061009\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:


Excavation of conduit.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. Bird species observed were: Allen's hummingbird (*Selasphorus sasin*), song sparrows (*Melospiza melodia*), crow (*Corvus brachyrhynchos*), turkey vultures (*Cathartes aura*), American goldfinchs (*Carduelis tristis*), California quails (*Callipepla californica*), cedar waxwings (*Bombycilla cedrorum*), a red-tailed hawk (*Buteo jamaicensis*), black-headed grosbeaks (*Pheucticus melanocephalus*), Stellar's jays (*Cyanocitta stelleri*), lazuli buntings (*Passerina amoena*), mourning doves (*Zenaidura macroura*), killdeer (*Charadrius vociferus*), barn swallows (*Hirundo rustica*), and violet-green swallows (*Tachycineta thalassina*). Three baby killdeer were seen foraging with a parent at the far east side of the property on the paved area. Numerous waxwings and quails were seen in the redwood trees (*Sequoia sempervirens*) next to the old Simonsen substation. There are likely waxwing and quail nests within 50 feet of the Simonsen substation

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		06/10/2009

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** June 16, 2009

**Report Code:** 061609\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

### Construction Activity(s) Being Monitored:


Excavation of conduit and conductor.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. Bird species observed were: Allen's hummingbird (*Selasphorus sasin*), song sparrows (*Melospiza melodia*), crows (*Corvus brachyrhynchos*), turkey vultures (*Cathartes aura*), American goldfinchs (*Carduelis tristis*), California quails (*Callipepla californica*), cedar waxwings (*Bombycilla cedrorum*), Stellar's jays (*Cyanocitta stelleri*), killdeer (*Charadrius vociferus*), barn swallows (*Hirundo rustica*), and violet-green swallows (*Tachycineta thalassina*). A white crowned sparrow (*Zonotrichia leucophrys*) was frequently observed perched on the barb wire fence on the south side of the new substation. A nest may be present in the nearby dense forest, but has not been identified. An adult killdeer was spotted displaying broken wing behavior, which is a display used to lure predators away from the location of the nest. There are undoubtedly killdeer nests on the property, however they are sufficiently far away from the new substation so that they are not expected to be disturbed. A rabbit was briefly observed darting into the blackberry patches immediately adjacent to the Simonsen substation. Elk tracks were found on the east side of the new substation around the landscaping trees and appeared to belong to an adult and a juvenile.

### Recommendations:

### Issue Status:

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		06/10/2009



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** June 30, 2009

**Report Code:** 063009\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:**


Repairing conductors

**General Summary of Mitigation Compliance and Site Conditions:**

No special status species were observed on site. Bird species observed were: Allen's hummingbirds (*Selasphorus sasin*), song sparrows (*Melospiza melodia*), crows (*Corvus brachyrhynchos*), turkey vultures (*Cathartes aura*), American goldfinchs (*Carduelis tristis*), a red-tailed hawk (*Buteo jamaicensis*), mourning doves (*Zenaida macroura*), swallows (*Hirundo rustica*), and violet-green swallows (*Tachycineta thalassina*). No birds nests were observed in the vicinity of the new substation, however there is significant bird activity (including nesting) around the property. The swallows are extremely active on the east edge of the property. One nest was found but did not seem to be in use.

**Recommendations:**

**Issue Status:**

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Rosanna McGuire		06/30/2009

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** August 5, 2009

**Report Code:** 080509\_RJM

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (Attach a photo log)

### Construction Activity(s) Being Monitored:


Electrical repair on Morrison Creek substation.

### General Summary of Mitigation Compliance and Site Conditions:

No special status species were observed on site. Two young white-tailed deer (*Odocoileus virginianus*) were observed foraging and fresh dung was found around the site. Fresh bear dung was also found. Bird species observed were: Allen's hummingbirds (*Selasphorus sasin*), song sparrows (*Melospiza melodia*), crows (*Corvus brachyrhynchos*), turkey vultures (*Cathartes aura*), wrenit (*Chamaea fasciata*), cedar waxwings (*Bombycilla cedrorum*), black phoebe (*Sayornis nigricans*), scrub jay (*Aphelocoma californica*), belted kingfisher (*Megaceryle alcyon*), and American robin (*Turdus migratorius*). Juvenile quails (*Calipepla californica*), were observed adjacent to Simonsen Substation along with a male parent. Quails are precocial, fledging after about 2 weeks. A few of the young were observed taking short flights to low tree branches. Although there is likely a nest in the dense blackberry bushes, the young are already making short flights and likely foraging at least somewhat independently. Juvenile cedar waxwings were also observed (as identified by their duller, less waxy, mottled plumage), but are flying and foraging independently.

### Recommendations:

There are likely bird nests within the dense blackberry bushes around the Simonsen substation. However, it is not possible to visually confirm nests due to the thick vegetation. The removal of the Simonsen substation will take place outside of breeding bird season and juvenile birds on site appear to have fledged. Although there is no vegetation removal proposed with substation removal, it will still be important to ensure that any juveniles remaining in the nests are not disturbed.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Rosanna McGuire		08/05/2009

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/25/09

**Report Code:** 082509\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Removal of two poles between the Simonson Substation and existing line parallel to US-101.
- Removal of chain link fence around substation.
- Equipment near the ground on large wooden timber structure was removed.


**General Summary of Mitigation Compliance and Site Conditions:**

- ESA recommended one new worker receive environmental training from Hank Galea. David Ney (Pacific Power) said he would contact Frank for on-site training.
- David took a sample from concrete near transformers to test for contamination. David said one previous sample came up positive, and requested that concrete from this area be separated from other concrete when removed.
- A jackhammer head from the backhoe was removed, and spilled hydraulic oil from the process was contained with a bin, tarp, and shop rags.
- A crane and a timber dumpster were delivered to the project site.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney		8/25/09

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/26/09

**Report Code:** 082609\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Power equipment (insulators, switches, lines) was removed from timber structure and dismantled, and timbers were removed with a chainsaw and crane.


**General Summary of Mitigation Compliance and Site Conditions:**

- David Ney (Pacific Power) was contacted regarding environmental training for one new worker. Frank Galea could not be contacted, but David sent ESA environmental handout training to give to new worker. New worker was not fully trained.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney		8/26/09

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/27/09

**Report Code:** 082709\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Dismantling timbers and removing power equipment (insulators, switches, lines).
- Removing large power equipment off of concrete pad with crane – a larger crane is needed to remove the three large transformers.
- Smaller concrete pads were jack hammered using backhoe.

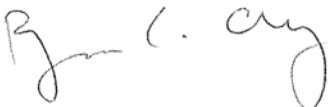
**General Summary of Mitigation Compliance and Site Conditions:**

- New worker was still not trained.
- While using a backhoe to break concrete pads, the jackhammer head became disconnected and one of the hydraulic oil lines was bent. Crew removed jackhammer head and hose while preventing oil from spilling on ground.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Bryan Olney		8/27/09

## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 8/28/09

**Report Code:** 082809\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Disassembling insulators and switches.
- Breaking concrete from large pad, removing rebar, and piling concrete for later removal.


**General Summary of Mitigation Compliance and Site Conditions:**

- New worker was still not trained. David Ney (Pacific Power) told ESA that Frank Galea could still not be contacted.
- Jackhammer was re-attached to backhoe using a tarp, container, and shop rags to prevent hydraulic oil from spilling on bare ground.
- ESA asked Allen (NAES) if it was necessary to remove dirt in drain on large concrete pad due to potential oil contamination, but Allen determined dirt was not likely contaminated and did not need to be removed.
- Concrete that David tested for contamination was piled separately from other concrete in the event it had to be disposed as hazardous waste.
- Acid batteries for substation operation were secured and removed from site.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** No outstanding issues to report.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney		8/28/09

## **PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT**

**Date:** 8/31/09

**Report Code:** 083109\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Movement of transformers from concrete pads to ground adjacent to pads and jack hammering of remaining concrete.
- Transport of smaller power equipment to other side of yard for storage using forklift.
- Timbers from substation were hauled off site.
- Scrap power equipment (insulators, switches) was put into boxes and hauled off site by Pacific Power.


**General Summary of Mitigation Compliance and Site Conditions:**

- New worker (Kent) was still not trained, presumably because Frank Galea could not be contacted.
- No residual oil was observed on concrete pads below transformers or on bare ground transformers were moved to.
- A worker (Noel) was observed walking into the riparian corridor around Rowdy Creek. ESA reminded the worker that sensitive habitats in the Rowdy Creek area should not be disturbed, even on foot.
- ESA asked workers onsite if a small area of treated wood could be cleaned up. A disintegrating piece of treated wood became smashed into the ground by vehicle traffic and soil was stained by oils in wood. The majority of the spot was cleaned up and disposed of in a dumpster for wood trash.
- Allen (NAES) told worker on Friday 8/28 that separate piles of concrete could be combined. Concrete piles were combined on the date of this report, Monday, 8/31.
- Backhoe was refueled using a tarp and funnel to contain any small spills.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** New worker (Kent) will likely not receive formal environmental training from Frank Galea before project activities are completed.

<u>ESA Monitor's Name</u>	<u>Signature</u>	<u>Date</u>
Bryan Olney		8/31/09



## PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL MONITORING REPORT

**Date:** 9/01/09

**Report Code:** 090109\_bco

**Compliance Level:** ☒ Acceptable ☐ Incident ☐ Minor Problem  
☐ Repeated Problem ☐ Non-Compliance (NCR)

**Compliance Advisory or Non-Compliance Report form attached?** ☐ Yes ☒ No

**Photo Documentation?** ☐ Yes ☒ No (*Attach a photo log*)

**Construction Activity(s) Being Monitored:** ESA arrived onsite at approximately 0700. Activities monitored included:

- Gradual movement of transformers off of area where concrete pad used to be, and spreading and grading of dirt over site using backhoe.
- Hauling of broken concrete off site.
- Hauling of scrap metal off site.

ESA left site around 1400. Allen (NAES) remained on site for removal of dumpster for wood trash.

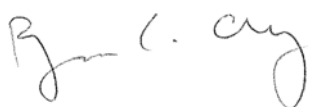
**General Summary of Mitigation Compliance and Site Conditions:**

- New worker (Kent) was still not trained, presumably because Frank Galea could not be contacted.
- Backhoe was refueled using a tarp and funnel to contain any small spills.
- In a phone conversation with David Ney (Pacific Power), ESA was made aware that previously identified procedure was not followed when transformers were removed from concrete pad and placed onto bare ground. ESA informed David that no residual oil was observed on the concrete pad below the equipment or on any bare ground areas where transformers were moved.
- No food trash onsite.

No special status species were observed.

**Recommendations:** None at this time.

**Issue Status:** New worker (Kent) will likely not receive formal environmental training from Frank Galea before project activities are completed.

<b><u>ESA Monitor's Name</u></b>	<b><u>Signature</u></b>	<b><u>Date</u></b>
Bryan Olney		9/1/09



## **APPENDIX C**

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### **ESA Photo Documentation**



## **PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT CPUC DAILY ENVIRONMENTAL PHOTO LOG**

**Page 1 of 1**

**Date: 09/14/2009**

**Corresponding Daily Report Code: N/A**

**Please include descriptive information for each picture (event, stationing, location, etc.):**

Images were taken at approximately 8:00 am.

Pic 0001: Landscaping on east side of Morrison Creek Substation.

Pic 0003: Northeast corner of Morrison Creek Substation and planted trees. Highway 101 is past power poles in background.

Pic 0004: Landscaping and planted trees on east side of substation.

Pic 0005: Drainage channel with erosion control matting. Middle of channel is heavily grown in with annual grasses, likely from hydroseeding.

Pic 0007: Southeast corner of substation, with drainage channel and existing vegetation in foreground.

Pic 0008: Drainage channel and landscaping along east side of substation.

Pic 0012: Drainage channel and landscaping along south side of substation.

Pic 0015: Pipe draining water from substation site into drainage channel.

Pic 0016: Grass growing through erosion control matting in drainage channel.

Pic 0017: Drainage channel along south side of substation.

Pic 0019: Drainage channel outlet, landscaping, and existing trees on west side of substation parallel to Highway 101.

Pic 0020: Substation utilities from west side of substation looking east.

Pic 0022: Outlet of drainage channel to roadside culvert along Highway 101.

Pic 0024: Landscaping and existing trees along west side of substation.

Pic 0025: New pole west of substation.

Pic 0027: New tapline connecting to substation, with previously existing tree in foreground.

Pic 0028: Landscaping and planted trees along north side of substation.

Pic 0030: Planted tree that has died along north side of substation.

Pic 0035: Entire facility from the north side of the substation looking southwest.

Pic 0038: Hydroseeding on previous site of Simonson Substation.

Pic 0039: Close-up of hydroseeded ground on previous site of Simonson Substation.

Pic 0041: Previous site of Simonson Substation, looking southwest.

Pic 0042: Road and area east of previous side of Simonson Substation, looking southwest.

Pic 0044: Spoils from construction that were spread and seeded before demolition of Simonson Substation. Looking north.

Pic 0046: Backside of spoils pile from pic 0044, looking south.

Pic 0048: Previous location of Simonson Substation, approximately 10 feet beyond vegetation in foreground. Looking northeast.

Pic 0049: Overall view of Morrison Creek Substation from inside gate, looking southeast.



Pic0001



Pic0003





Pic0004





Pic0005





Pic0007



Pic0008



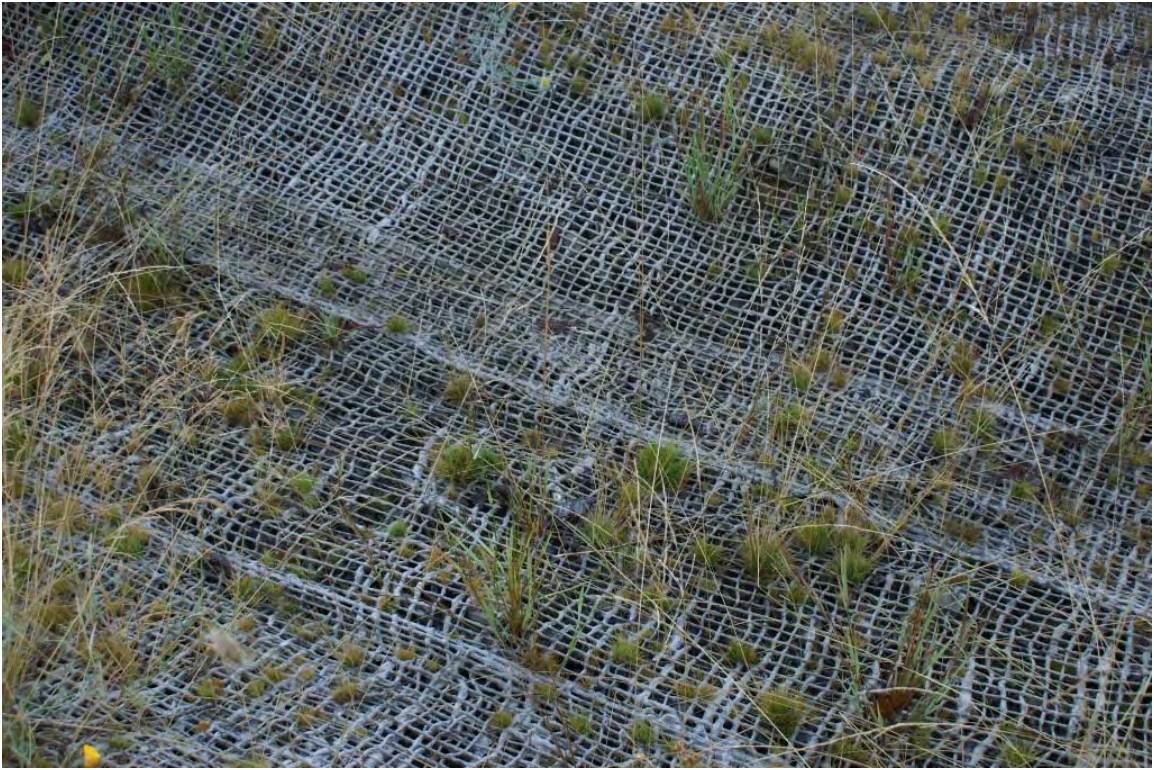


Pic0012



Pic0015





Pic0016



Pic0017





Pic0019



Pic0020





Pic0022



Pic0024



Pic0025





Pic0027





Pic0028



Pic0030





Pic0035



Pic0038





Pic0041



Pic0041





Pic0042



Pic0044





Pic0046



Pic0048





Pic0049

## **APPENDIX D**

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### **Variance Documentation**







**Variance Request Form**  
PacifiCorp Morrison Creek Substation Project

Variance Request No.: 001

**CONTRACTOR SECTION**

Request Prepared By: John Aniello

Dwg. No./Station No.:

Landowner: PacifiCorp

Current Land Use: Undeveloped

**Detailed Description of Variance:**

Attachments? ☒ Yes ☐ No

Photos? ☐ Yes ☒ No

Attached, for comparison, are the preliminary drawings originally included in the PEA and the final design drawings which reflect a slightly different design. The original design shows the transformer offset from the incoming tap line. The final design shows the transformer in line with the incoming tap line. The overall dimensions show that the new foot print is a few feet wider than originally planned but the profile is the same height.

Additionally, a 50' pole was found to be required as part of the distribution circuit being constructed in association with the substation. Its location is shown on the distribution pole map. It will be wooden and buried approximately 7' into the ground. There will be guying required.

Finally, the transmission pole identified as steel in the PEA will actually be a wooden pole of similar dimensions. It will be placed in the same location and constructed in a similar manner as previously described for the steel pole except it will only be buried 10' in the ground.

**Variance Justification:**

The overall design change is required because the original design was found to be unnecessarily costly and used equipment that was no longer required.

The 50' distribution pole was found to be required because of the design change and the manner in which the distribution circuits need to be brought out of the substation and connected to the distribution system.

The transmission pole was changed from steel to wooden because it was found to be less costly and easier to install than the planned steel pole.

**PACIFICORP ENVIRONMENTAL SECTION**

Variance Level: ☒ Level 1 ☐ Level 2 Variance From: ☐ Permit ☐ Specification ☒ Drawing ☐ Mitigation Measure

**RESOURCES**

**Biological:** ☒ No Resources Present ☐ Resources Present

**Cultural:** ☐ N/A (paved/graveled area & no ground disturbance) ☒ No Resources Present ☐ Resources Present

Applicable Mitigation Measure:

**HazMat:** ☐ N/A (paved/graveled area & no ground disturbance) ☒ No Haz Mat Present ☐ Haz Mat Present

Other Variance Conditions Attached: ☐ Yes ☐ No

**REQUIRED SIGN-OFF SIGNATURES**

Construction Manager:  PacifiCorp Environmental Inspector: Len Conlee

Engineering Manager:  PacifiCorp Environmental Supervisor: 

PacifiCorp Environmental and Land Manager: 

Level 1 variances require signatures from the Construction Manager and Environmental Inspector only. Level 2 variances require signatures from the Construction Manager, Environmental Inspector, Engineering Manager and Env. Supervisor.

**CPUC and CPUC CONSULTANT SECTION**

Variance Approved: ☒ Yes ☐ No

**AFFECTED RESOURCE(s) and APPLICABLE MITIGATION MEASURES**

☐ Air Quality:

☐ Soils:

☐ Noise:

☐ Hazards and Hazardous Materials:

☐ Transportation and Traffic:

Other Variance Conditions Attached: ☐ Yes ☒ No

**REQUIRED APPROVAL SIGNATURES**

Consultant Environmental Monitor:

D & Cwu

(Note: signature signifies review only)

Consultant Project Manager:

D & Cwu 7/9/08☐ Level 1 Verbal Approval

CPUC Project Manager:

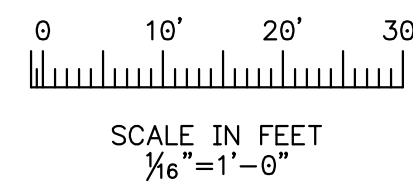
Mike Rosauer / verbal per DEC 7/9/08☒ Level 1 Verbal Approval


Level 1 variances only require verbal approval from CPUC Project Manager and Consultant Project Manager. Level 2 variances require signatures.

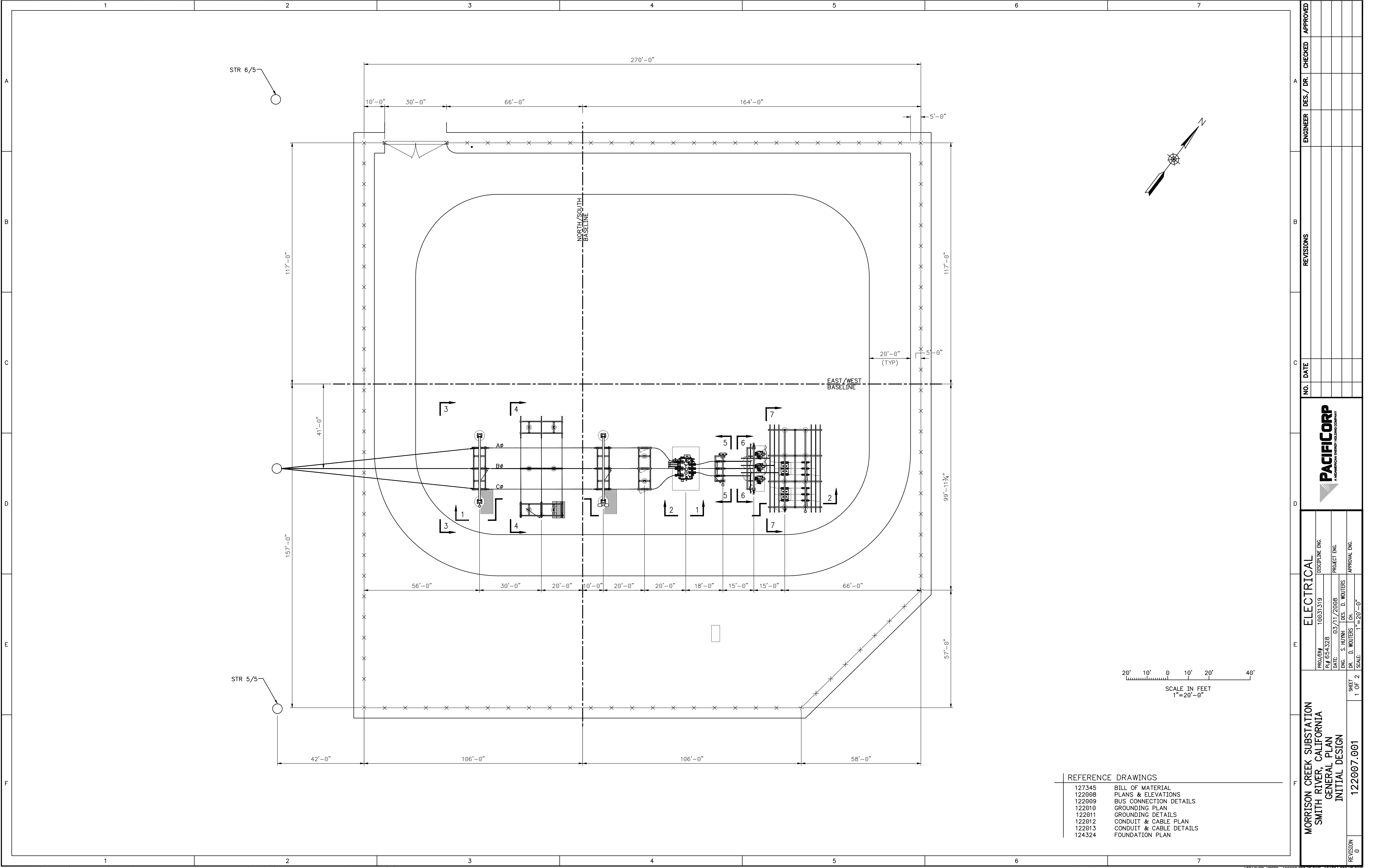
**PACIFICORP AGREEMENT**

PacifiCorp agrees that all its construction crews will abide by the mitigation measures detailed in the Final MND, implement Best Management Practices, have appropriate environmental monitors present, and all permits in place.

DEC note: Attachments (preliminary and final design drawings) are on file in the project folder.

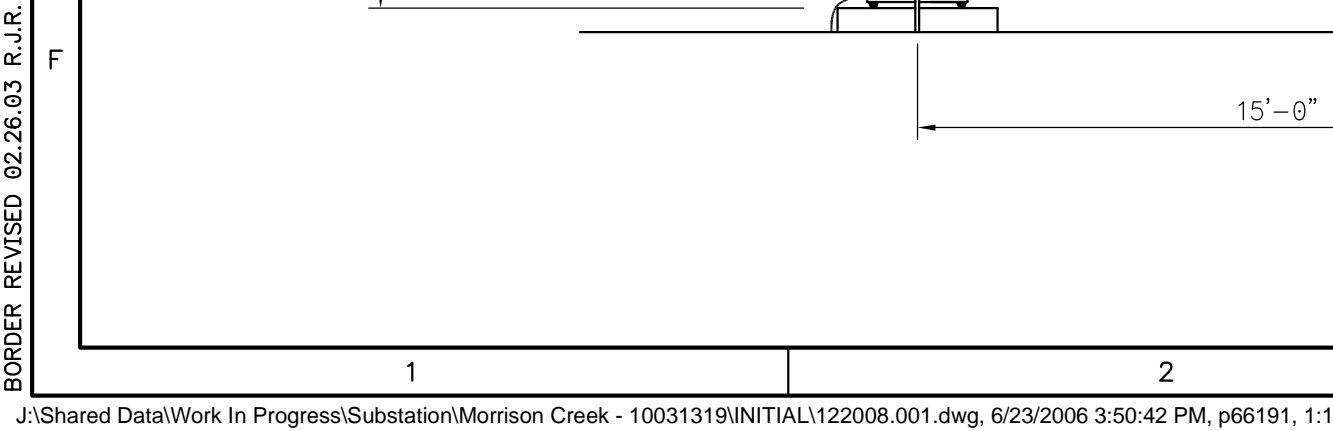


PROJ/ER# 10031319		MORRISON CREEK SUBSTATION SMITH RIVER, CALIFORNIA GENERAL PLAN			
PL#					
DATE 04/18/2006					
ENG HAC	DES				
DR D.WOLFF	CH				
APPROVAL		 <b>PACIFICORP</b> PROTECTION & CONTROL			
		SCALE: 1/8" = 1' - 0"	SHEET 1 OF 1	122007.001	REV. ①



REFERENCE DRAWINGS	
127345	BILL OF MATERIAL
122008	PLANS & ELEVATIONS
122009	BUS CONNECTION DETAILS
122010	GROUNDING PLAN
122011	GROUNDING DETAILS
122012	CONDUIT & CABLE PLAN
122013	CONDUIT & CABLE DETAILS
124324	FOUNDATION PLAN

MORRISON CREEK SUBSTATION SMITH RIVER, CALIFORNIA GENERAL PLAN INITIAL DESIGN		ELECTRICAL		REVISIONS		ENGINEER		DES./ DR.		CHECKED		APPROVED	
PROJ/REV#	10031319	DISCIPLINE ENG.		NO.	DATE								
PL#	654328	PROJECT ENG.											
DATE	03/11/2008												
ENG.	S. HUYNH	DES.	D. WOUTERS										
DR.	D. WOUTERS	CH.											
SHEET	1 OF 2												
REVISION	0												
122007.001		SCALE: 1"=20'-0"											



REVISED 09/18/07 D. HURLEY

FILE LOCATION: J:\Shared Data\Work In Progress\Substation\Morrison Creek - 10031319\122008.001 SAVED BY: (P22182) 6/10/2008 2:59 PM PLOTTED BY: (HUYNH, SIKHIU) 6/11/2008 10:16 AM

1 2 3 4 5 6 7

F

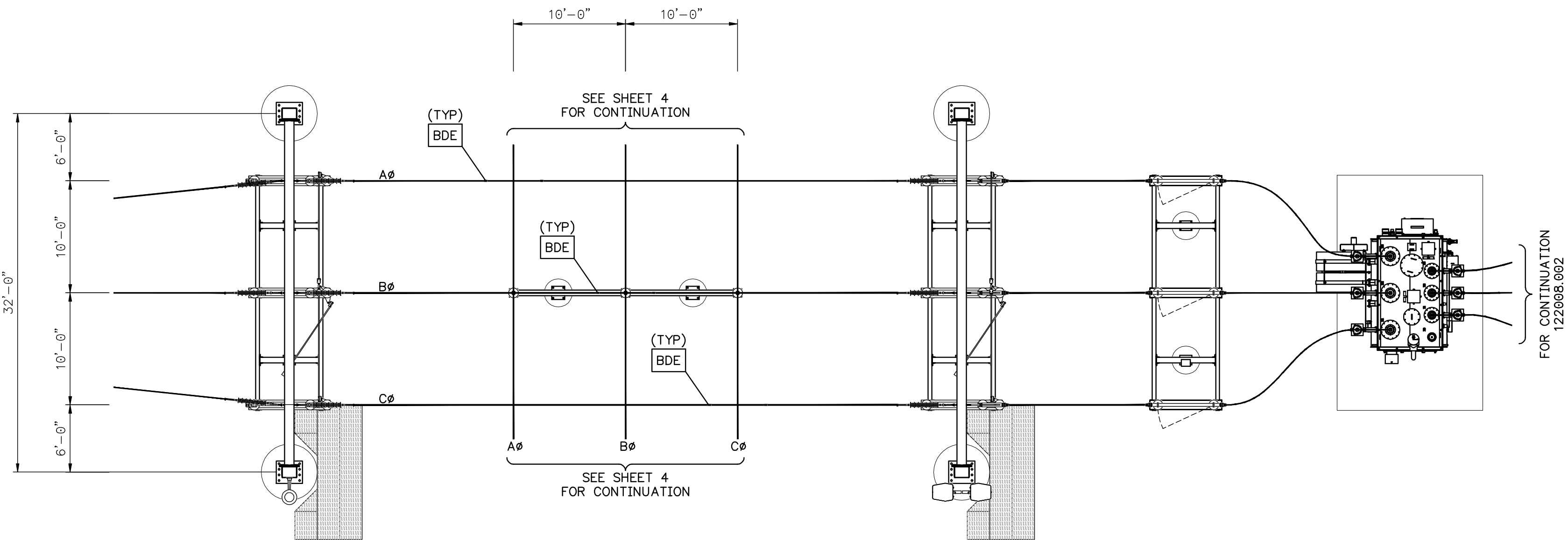
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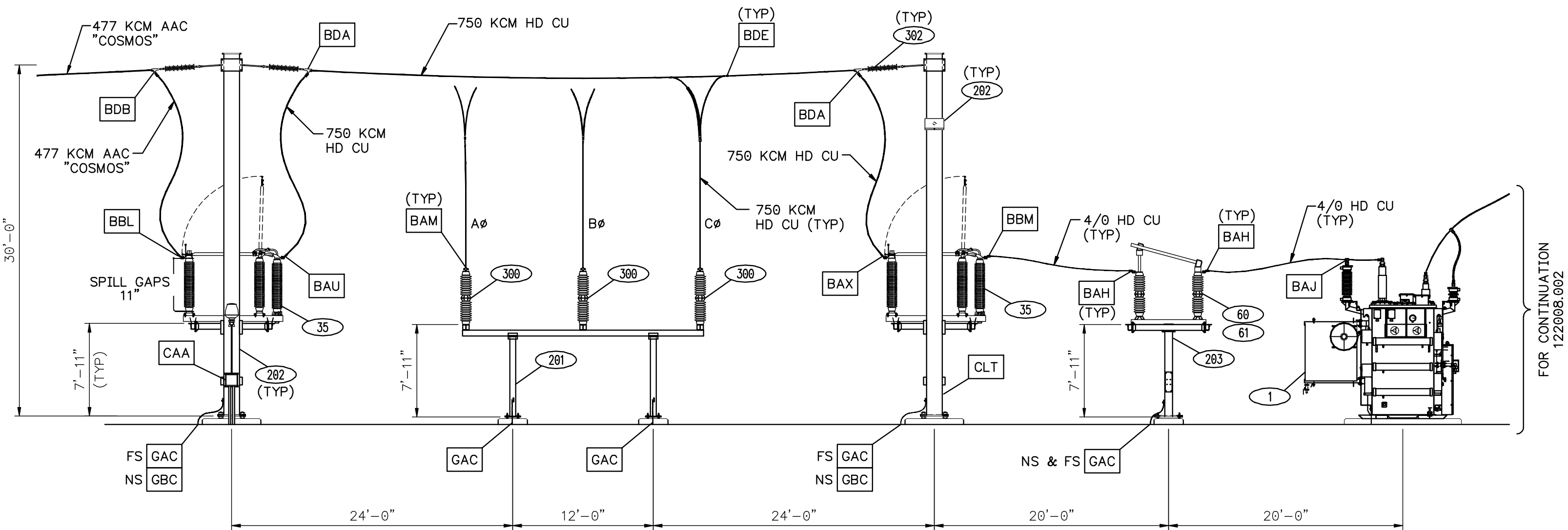
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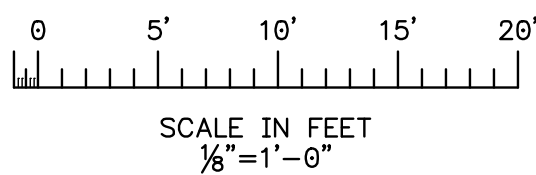
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PLAN VIEW



ELEVATION 1-1



- LEGEND
- XXXX INDICATES ITEM NUMBER SHOWN ON BILL OF MATERIAL, DWG 127345
  - BXX INDICATES BUS CONNECTION DETAIL SHOWN ON DWG. 122009
  - GXX INDICATES GROUNDING DETAIL SHOWN ON DWG. 122011
  - CXX INDICATES CONDUIT & CABLE DETAIL SHOWN ON DWG. 122013

- NOTES
- ALL ELEVATION HEIGHT DIMENSIONS SHOWN ARE FROM BOTTOM OF STEEL.
  - "F" INDICATES FIXED BUS SUPPORT TO BE WELDED. "S" INDICATES SLIP BUS SUPPORT NOT TO BE WELDED. "EX" INDICATES EXPANSION BUS TERMINATION.
  - FOR SEISMIC CONCERNS PROVIDE ENOUGH SLACK TO ALLOW FOR 6" OF MOVEMENT.
  - INSTALL 1/8" ACSF DAMPING CONDUCTOR IN BUS SPANS EQUAL TO OR GREATER THAN 15'.
  - ADD 1/8" WEEP HOLES ON UNDERSIDE OF BUS NEAR THE CENTER OF THE BUS SPAN.
  - "FS" INDICATES "FAR SIDE". "NS" INDICATES "NEAR SIDE".
  - FOR TOP OF CONCRETE ELEVATIONS SEE FOUNDATION PLAN (DRAWING 124324).
  - A VERTICAL CLEARANCE BETWEEN PHASE AND GROUND OF 30" AND A HORIZONTAL CLEARANCE OF 46" BETWEEN PHASES IS REQUIRED.

- REFERENCE DRAWINGS
- |        |                         |
|--------|-------------------------|
| 127345 | BILL OF MATERIAL        |
| 122007 | GENERAL PLAN            |
| 122009 | BUS CONNECTION DETAILS  |
| 122010 | GROUNDING PLAN          |
| 122011 | GROUNDING DETAILS       |
| 122012 | CONDUIT & CABLE PLAN    |
| 122013 | CONDUIT & CABLE DETAILS |
| 124324 | FOUNDATION PLAN         |

MORRISON CREEK SUBSTATION  
SMITH RIVER, CALIFORNIA  
PLANS & ELEVATIONS  
ELEVATION 1-1

ELECTRICAL

PROJ/REV 10031319  
PLJ 654328  
DATE: 03/13/2008  
ENG: S. HUYNH DES: D. WOLTERS  
DR: D. WOLTERS CH: S. HUYNH  
SHEET 1 of 10  
SCALE: 1/8" = 1'-0"

REVISION 0

122008.001

PACIFICORP  
A AMERICAN ENERGY HOLDING COMPANY

NO. DATE

REVISIONS

ENGINEER

DES./ DR.

CHECKED

APPROVED

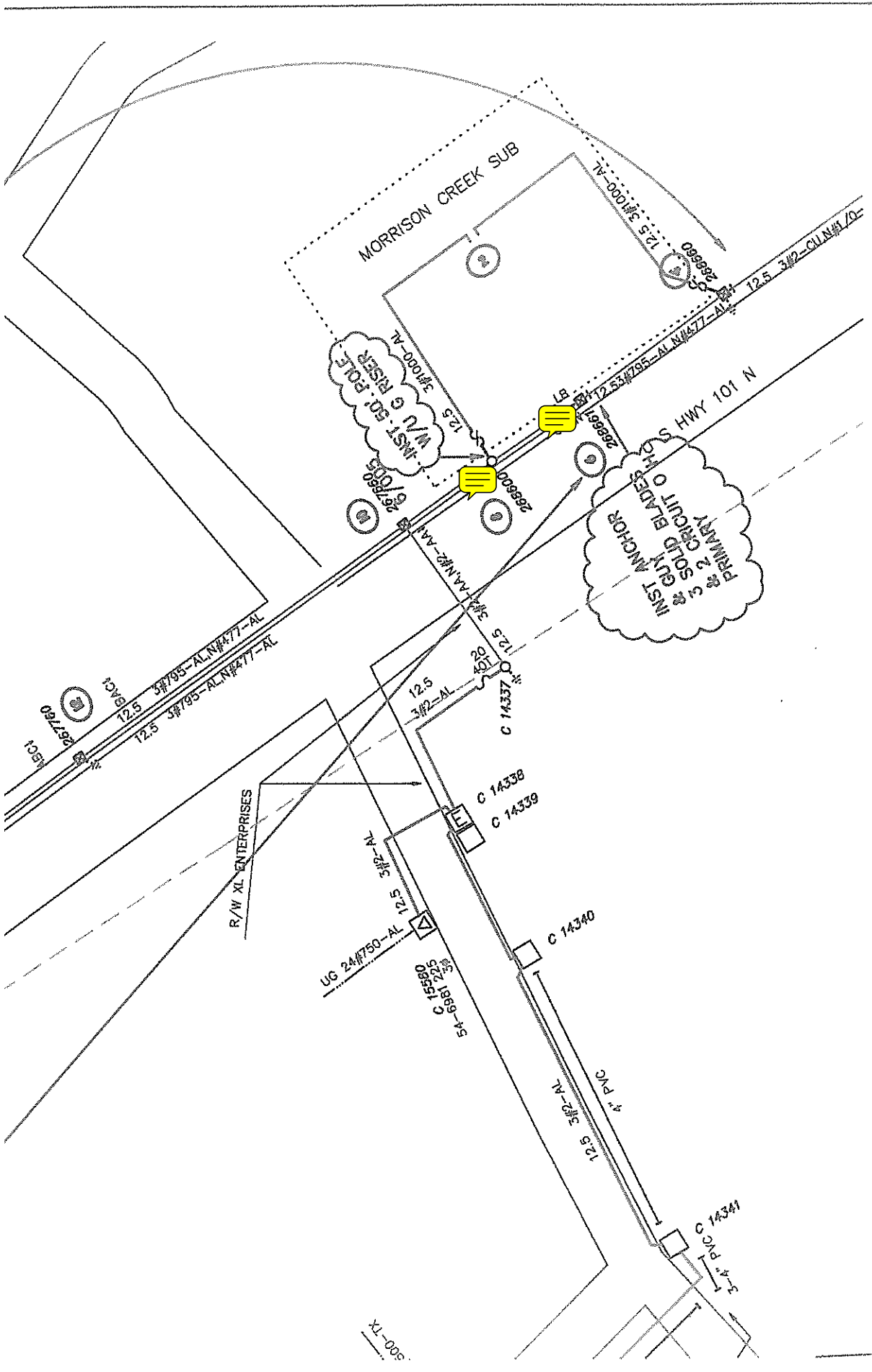
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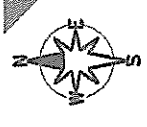








**PACIFICORP**  
A MIDAMERICAN ENERGY HOLDINGS COMPANY



1 of 3

<b>Foreman</b>  <b>CC#</b> 11586 <b>CUSTOMER : MORRISON CREEK SUB</b> <b>ADDRESS : HWY 101 N Δ FRED HAIGHT</b> <b>SMITH RIVER</b>	<b>Emp #</b>		<b>Job Start Date</b>
	<b>WD# / REQ#</b> 005075160	<b>Map String</b> 07218001.0	<b>Job Complete Date</b>
	<b>Circuit</b> 5R190		<b>Post Jobs</b> <input type="checkbox"/> <b>RQI</b> <input type="checkbox"/> <b>Posted</b> <input type="checkbox"/>
<b>EST ID#</b> 26840		<b>Print Date</b> 06/13/08	<b>Scale</b> 1"=100'



## **APPENDIX E**

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### **Training Documentation Logs**



**WORKERS ENVIRONMENTAL AWARENESS PLAN**  
**PACIFICORP'S MORRISON CREEK SUBSTATION PROJECT**  
**DEL NORTE, CALIFORNIA**

Prepared For:

**PacifiCorp**

Prepared By:

EPG Inc.  
247 South 500East  
Salt Lake City, Utah 84102

**July 24, 2008**

## **INTRODUCTION**

This Workers Environmental Awareness Plan (WEAP) has been developed in accordance with the mitigation monitoring, reporting and compliance program for PacifiCorp's Morrison Creek Substation Project (Application No. A.07-07-018) as required by the California Public Utilities Commission (CPUC). PacifiCorp proposes to construct and operate the Morrison Creek Substation and remove the existing Simonson Substation (Proposed Project) in Del Norte County, California starting early August and finishing in late November 2008.

All construction personnel for the Proposed Project are required to receive environmental training based on the WEAP before working on the Proposed Project. A pre-construction meeting will be held on August 5, 2008 for construction personnel; at that time, the initial environmental training will be provided. Additional environmental training for construction personnel will be provided as needed on Mondays mornings with at least one week's prior notice to PacifiCorp's Project Manager John Aniello. If special accommodations for environmental training are needed, they will be arranged through PacifiCorp's Project Manager. All environmental training will be provided by Environmental Planning Group's personnel and/or their sub-consultants.

The following sections of the WEAP outline environmental concerns and appropriate work practices to all construction personnel for the Proposed Project. These include environmental considerations for biological, air quality, cultural, and paleontological resources as well as site-specific physical conditions to improve hazard prevention as documented in the Health and Safety Plan, and the Hazardous Substance Control and Emergency Response Plan, that have been developed for the Proposed Project.

## **ENVIRONMENTAL RESOURCES**

### **Biological Resource**

The following guidelines are to be followed by construction personnel to prevent adverse impacts to biological resources during construction of the Proposed Project:

- No Smoking, except inside vehicles and areas cleared of vegetation for a minimum of 12 feet
- No parking over tall grass
- All vehicles must contain suitable fire suppression equipment
- No hunting, firearms, open fires, pets or harming of wildlife
- Stay within designated work areas and access roads
- Dispose of food, trash, and construction debris in appropriate containers – do not litter
- Trash containers shall have a securable lid
- All construction vehicles will obey posted speed limits and watch for and avoid animals on the road

- Inform PacifiCorp's Field Inspector if any avian nests are found within the Proposed Project area.
- Inform PacifiCorp's Field Inspector if special status species are seen in or near work areas (see below)

### **Special Status Species Potentially Found in the Project Area**

The Initial Study/Mitigated Negative Declaration prepared for the Proposed Project by ESA identifies four special status species that have the potential to occur in the Proposed Project site. These special status species include: Northern Harrier (*Circus cyaneus*), Loggerhead Shrike (*Lanius ludovicianus*), Northern Red-legged Frog (*Rana aurora aurora*), and Pacific gilia (*Gilia capitata* ssp. *Pacifica*). Below is a description of the special status species and the habit they are most likely to occur in.

Northern Harrier (listed as a California species of concern) is a medium-sized, long-winged, long-tailed hawk with a flat face and owl-like facial disk. Rowdy Creek, less than ¼ mile from the Proposed Project, provides potential nesting habitat. Below is a description of potential habitat.

- Nests in open areas, on the ground, in thick grass, shrubbery, or other vegetation
- Most often, nesting occurs in emergent vegetation, wet meadows, or near rivers and lakes
- May also nest in grasslands away from water

Loggerhead Shrike (listed as both a federal and California species of special concern) is a small bird 7 inches in length with a heavy hooked bill, black mask, gray head and back, and white underparts. Scattered trees and dense brush around the existing Simonson Substation and at the southern edge of the proposed Morrison Creek Substation site provide nesting habitat. Utility lines, scattered trees, and the existing substation provide sites on which to perch. Below is a description of potential habitat.

- Prefers open habitats with scattered shrubs, trees, posts fences, utility lines, or other perches
- Nesting occurs in dense brush or trees

Northern Red-legged Frog (listed as a California species of special concern) is 3-inches long with two prominent dorsolateral folds and a dark facial mask with light jaw stripe. This frog also exhibits dorsal spots, usually without light centers and red on the underside of its hind legs. Potential breeding habitat is present in Rowdy Creek and the Proposed Project sites close proximity to Rowdy Creek provides the potential for Northern Red-legged Frogs to disperse into grassland habitat within the site. Below is a description of potential habitat.

- Humid forests, woodlands, grasslands, and streamsides with plant cover
- Most common in lowlands or foothills and is frequently found in woods adjacent to streams

- Breed(s) in permanent water sources including lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps
- Typically found in or near water, this species can be highly terrestrial and is sometimes found in damp places far from water

Pacific gilia (listed by the California Native Plant Society as fairly endangered in California) has a pompom-like sphere of flowers atop a 25 to 50 centimeter-long stem. Most of the plant's leaves are clustered at the base and the violet-blue corolla consists of five petals fused into a tube. The presence of valley and foothill grassland within the Proposed Project site provides potential habitat for this species. Below is description of potential habitat.

- Found in costal bluff scrub, chaparral, costal prairie, and valley and foothill grassland and blooms between April and August.

If any of these special status species are identified on or in the vicinity of the Proposed Project, inform PacifiCorp's Field Inspector and/or contact PacifiCorp's Project Manager, John Aniello, and cease work until proper regulatory action, as identified in the Initial Study/Mitigated Negative Declaration for the Proposed Project, has taken place.

### **Streambed Protection**

The Proposed Project is located within close proximity of Rowdy Creek. Outlined below are measures to eliminate/reduce any adverse impacts to the creek and standing water:

- Stay within approved work area
- No sediment-laden water is to be discharged downstream of the work site
- Inspect and maintain all sediment and erosion measures, as needed, in the work area
- Do not store stockpiles, materials, debris, or construction waste within 100 feet of a streambed
- Avoid damage to plants in and along the streambed
- Park only in designated areas and away from vegetation
- No refueling within 500 feet of a streambed or other water body/standing water, including wetlands

### **Air Quality**

Below are required prevention precautions that are in accordance with the North Coast Unified Air Quality Management District Rule 430. This rule prohibits the handling, transporting, or open storage of materials in such a manner that allows or may allow unnecessary particulate matter to become airborne.

- Cover open bedded trucks when used for transporting materials likely to give rise to airborne dust



- Use water or suitable chemicals for control of dust in the demolition of existing buildings or structures, construction operations, and the grading of roads or the clearing of land
- Apply asphalt, oil, water or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which can give rise to airborne dusts
- Promptly remove earth or other material from paved streets onto which earth or other material (track out) has been transported by trucking or earth moving equipment, erosion by water, or other means

### **Cultural Resources**

As identified in the Initial Study/Mitigated Negative Declaration for the Proposed Project, in the event that any prehistoric or historic subsurface cultural resources are discovered during ground-disturbing activities, all work within 50 feet of the resources shall be halted and PacifiCorp's Field Inspector shall be contacted. In addition, collection of bones, pottery, glass, or other archaeological or historical artifacts is prohibited.

If human remains are discovered, work will be immediately stopped and construction personnel are to immediately contact Del Norte County Coroner and PacifiCorp's Field Inspector. No materials are to be moved and no photographs are to be taken.

### **Paleontological Resources**

As identified in the Initial Study/Mitigated Negative Declaration for the Proposed Project, in the event that any paleontological resources are discovered during ground-disturbing activities, all work within 50 feet of the resources shall be halted and PacifiCorp's Field Inspector shall be contacted.

## **HAZARD PREVENTION**

### **Health and Safety**

As previously mentioned, a Health and Safety Plan for the Proposed Project has been developed and, as stipulated in the plan, "All personnel on site, contractors and subcontractors included, shall be informed of the site emergency response procedures and any fire, explosion, health, or safety hazards and protective measures planned for the site." In addition, all site personnel (including visitors, contractors, subcontractors etc.) will read the Health and Safety Plan and sign the acknowledgment form located in the appendix of the plan before being allowed on-site.

Implementation of the Health and Safety Plan is the responsibility of PacifiCorp's Field Inspector/Task Health and Safety Officer, Lee Conlee.

## **Hazardous Substance Control and Emergency Response**

An Emergency Response Plan and Hazardous Substance Control Plan (ERPHSCP) has been developed for the Proposed Project. In order to minimize potential effects of an emergency, all construction personnel should familiarize themselves with the emergency procedures identified in the ERPHSCP. All site workers must be prepared to assess situations quickly and thoroughly and use common sense in determining a course of action. If an emergency dictates that the site should be evacuated, construction personnel should evacuate the work site in an orderly manner, as directed by the site foreman and/or PacifiCorp's Field Inspector. In the case of emergencies that require immediate attention (i.e., fire), construction personnel should follow the emergency procedures outlined in the ERPHSCP for reporting the emergency.

In general, the following procedures for assessing and responding to an emergency should be followed:

### **Identification of General Emergency Conditions**

1. Health and Safety
2. Hazardous Substance Release
3. Criminal Activity

### **Progression of Emergency Response**

1. WATCH for signs of impending problem
2. WARNING of impending problem
3. MOBILIZE resources pursuant to Emergency Response Procedures
4. EXECUTE emergency operation procedures, as needed
5. HOLD execution of emergency response pending all clear
6. DEMOBILIZE to normal operations

The Proposed Project is anticipated to have few hazardous substances associated with it. Potential substances include: petroleum and petroleum-related products such as gasoline, oil, and hydraulic fluids. In the instance of a hazardous substance spill, construction personnel should attempt to contain it with the spill kit materials located on-site. If the hazardous substance is unknown, evacuate the spill site, warn others to stay away, and notify PacifiCorp's Field Inspector. General procedures for reducing the effects of hazardous materials are listed below:

- Clean up all hazardous materials spills promptly with on-site spill kit
- Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction
- Avoid overtopping construction equipment fuel gas tanks
- Use tarps and adsorbent pads under vehicles when refueling to contain and capture any spilled fuel
- Properly contain and remove grease and oils during routine maintenance of construction equipment
- Properly dispose of discarded containers of fuels and other chemicals

- Implement the Health and Safety, Hazardous Substance Control and Emergency Response Plans



# PacifiCorp - Morrison Creek Substation Project

## Sensitive Species Potentially Found in the Project Area



### **Northern Harrier**

(listed as a California species of concern) is a medium-sized, long-winged, long-tailed hawk with a flat face and owl-like facial disk. Rowdy Creek, less than one quarter of a mile from the Proposed Project, provides potential nesting habitat. Below is a description of potential habitat.

- Nests in open areas, on the ground, in thick grass, shrubbery, or other vegetation
- Most often, nesting occurs in emergent vegetation, wet meadows, or near rivers and lakes
- May also nest in grasslands away from water



### **Northern Red-legged Frog**

(listed as a California species of special concern) is 3 inches long with two prominent dorsolateral folds and a dark facial mask with light jaw stripe. The frog also

exhibits dorsal spots usually without light centers and red on the underside of hind legs. Potential breeding habitat is present in Rowdy Creek and the Proposed Project site's close proximity to Rowdy Creek provides the potential for Northern Red-legged Frogs to disperse into grassland habitat within the site. Below is a description of potential habitat.

- Humid forests, woodlands, grasslands, and streamsides with plant cover
- Most common in lowlands or foothills and is frequently found in woods adjacent to streams
- Breed in permanent water sources including lakes, ponds, reservoirs, slow streams, marshes, bogs, and swamps
- Typically found in or near water, this species can be highly terrestrial and is sometimes found in damp places far from water



### **Loggerhead Shrike**

(listed as both a federal and California species of special concern) is a small bird 7 inches in length with a heavy hooked bill, black mask, gray head and back, and white underparts. Scattered trees and dense brush around the existing Simonson Substation and at the southern edge of

the proposed Morrison Creek Substation site provide nesting habitat. Utility lines, scattered trees, and the existing substation provide sites on which to perch. Below is a description of potential habitat.

- Prefers open habitats with scattered shrubs, trees, posts fences, utility lines, or other perches
- Nesting occurs in dense brush or trees



### **Pacific gilia**

(listed by the California Native Plant Society as fairly endangered in California) has a pompom-like sphere of flowers atop a 25 to 50 centimeter long stem. Most of the plant's leaves are clustered at the base and the violet-blue corolla consists of five petals fused into a tube.

The presence of valley and foothill grassland within the Proposed Project site provides potential habitat for this species. Below is description of potential habitat.

- Found in costal bluff scrub, chaparral, costal prairie, and valley and foothill grassland and blooms between April and August

**If any of these special status species are identified on or in the vicinity of the Proposed Project inform PacifiCorp's Field Inspector and/or contact PacifiCorp's Project Manager John Aniello and cease work until proper regulatory action, as identified in the Initial Study/Mitigated Negative Declaration for the Proposed Project, has taken place.**

**PacifiCorp**  
**Morrison Creek Substation Project**  
**Environmental Guidelines for Permit Compliance**

**BIOLOGICAL RESOURCES**

- NO SMOKING, except inside vehicles and areas cleared of vegetation for minimum of 12 feet
- NO PARKING OVER TALL GRASS
- All vehicles must contain suitable fire suppression equipment
- No hunting, firearms, open fires, pets or harming of wildlife
- Stay within designated work areas and access roads
- Dispose of food trash and construction debris in appropriate containers – do not litter
- Trash containers shall have a securable lid
- All construction vehicles will obey posted speed limits and watch for and avoid animals on the road
- Inform PacifiCorp's Field Inspector if any avian nests are found within the Proposed Project area.
- Inform PacifiCorp's Field Inspector if special status species are seen in or near work areas

**STREAMBED PROTECTION**

- Stay within approved work area
- No sediment-laden water is to be discharged downstream of the work site
- Inspect and maintain all sediment and erosion measures as needed in the work area
- Do not store stockpiles, materials, debris, or construction waste within 100' of a streambed
- Avoid damage to plants in and along the streambed
- Park only in designated areas, and away from vegetation
- No refueling within 500 feet of a streambed or other water body/standing water, including wetlands

**AIR QUALITY**

- Cover open-bedded trucks when used for transporting materials likely to give rise to airborne dust
- Use water or suitable chemicals for control of dust in the demolition of existing buildings or structures, construction operations, and the grading of roads or the clearing of land

- Apply asphalt, oil, water or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which can give rise to airborne dusts
- Promptly remove earth or other material from paved streets onto which earth or other material (track out) has been transported by trucking or earth moving equipment, erosion by water, or other means

**HAZARDOUS SUBSTANCE CONTROL AND EMERGENCY RESPONSE**

- Clean up all hazardous materials spills promptly with on-site spill kit
- Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction
- Avoid overtopping construction equipment fuel gas tanks
- Use tarps and adsorbent pads under vehicles when refueling to contain and capture any spilled fuel
- Properly contain and remove grease and oils during routine maintenance of construction equipment
- Properly dispose of discarded containers of fuels and other chemicals
- Implement the Health and Safety, Hazardous Substance Control and Emergency Response Plans

**CULTURAL AND PALEONTOLOGICAL RESOURCES**

- If human remains are discovered, IMMEDIATELY STOP ALL WORK and contact the Del Norte County Coroner
- If unidentifiable bones, pottery, glass, or other artifacts are found, immediately stop work within 50 feet of the site and contact PacifiCorp's Field Inspector
- NO COLLECTION of bones, pottery, glass, or other archaeological or historical artifacts

**PACIFICORP EMERGENCY CONTACT**

- John Aniello, Project Manager,  
(503) 545-9539

**Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET**

DATE	NAME	ORGANIZATION	SIGNATURE
8-5-08	AARON MARTIN	CEI - SUPERINTENDENT	<i>[Signature]</i>
8-5-08	Len Carter	Pacificorp	<i>[Signature]</i>
8/5/08	JOE AUFDENHAUR	SHN	<i>[Signature]</i>
8/5/08	John Dailey	SHN	<i>[Signature]</i>
8/5/08	PERUMAL RADHAKRISHNAN	PACIFICORP	<i>[Signature]</i>
8/5/08	ARKIE HUSTLEY	NAES	<i>[Signature]</i>
8/5/08	MATT KRZESNIAK	NAES	<i>[Signature]</i>
"	Michael Penrod	"	<i>[Signature]</i>
8/5/08	SIKHIA HUYNH	PACIFICORP	<i>[Signature]</i>
8/5/08	Rosanna McGuire	ESA	<i>[Signature]</i>
8/5/08	John Aniello	Pacificorp	<i>[Signature]</i>
8/5/08	STACEY CHIDDIX	CEI	<i>[Signature]</i>
8/5/08	Frank Carlee	Consultant	<i>[Signature]</i>

**Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET**

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Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET

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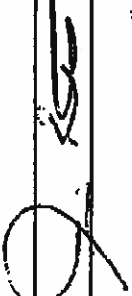







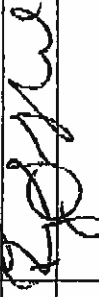
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DATE	NAME	ORGANIZATION	SIGNATURE
08/26/08	Tony Hannon	MT Power Const	Tony Hannon
8/26/08	Rex Martinez	MT Power	Rex Martinez
8/26/08	JW Howard	MT Power	JW Howard
8/26/08	Scott Johnson	MT Power	Scott Johnson
8/26/08	Zach R. Zehner	MT Power	Zach R. Zehner
8-26-08	Darrell Long	MT Power	Darrell Long
8-26-08	Tony Greenup	MT Power	Tony Greenup
8-26-08	James Andrews	MT Power	James Andrews
8-26-08	Jamie Bierly	MT Power	Jamie Bierly
9-3-08	Jaron P. H.	CEL	Jaron P. H.
9-3-08	Matt Slown	NAES	Matt Slown
9-3-08	Bryce Smith	NAES	Bryce Smith
9-3-08	Alan Schwartz	NAES	Alan Schwartz





**Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET**

DATE	NAME	ORGANIZATION	SIGNATURE
8/12/08	Bryan Olney	E. S. A.	
8-12-08	Tam Anderson	Bowkade	
8-16-08	Tim Taylor	Chadler	
8-16-08	Mike Varley	Chadler Inc	
8-23-08	David Harley	Chadler Inc	
9-29-08	Bob Smith	Trac Solutions	
9-29-08	Neil Kingford	Chadler Inc	
10/1/08	Kevin Ruano	Fence Corps	
10-1-08	<del>Michael</del> Michael	Fence Corps	
10-1-08	Dan Nicholson	Fence Corps	
10/1/08	Ryan Ward	Fence Corps	

[illegible]

**Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET**

DATE	NAME	ORGANIZATION	SIGNATURE
8/12/08	Bryan Olney	E.S.A.	<i>[Signature]</i>
8-12-08	Tam Anderson	Bawbada	<i>[Signature]</i>
8-16-08	Tim Taylor	Chadco	<i>[Signature]</i>
8-16-08	Mike Jorley	Chadco Inc	<i>[Signature]</i>
8-23-08	Justin Hedberg	Chadco Inc	<i>[Signature]</i>
9-24-08	Bob Shultz	Trac Solutions	<i>[Signature]</i>
9-29-08	Noel Kingford	Chadco Inc	<i>[Signature]</i>
10/1/08	Kerwin Riva	Fence Corps	<i>[Signature]</i>
10-1-08	<del>Michael</del> Michael Jorley	Fence Corps	<i>[Signature]</i>
10-1-08	Dan Nicholson	Fence Corps	<i>[Signature]</i>
10/1/08	Ryan Ward	Fence Corps	<i>[Signature]</i>
10-13-08	William Courie	NAES	<i>[Signature]</i>

P.22

[illegible]

**Morrison Creek Substation Project  
ENVIRONMENTAL TRAINING TRACKING SHEET**

DATE	NAME	ORGANIZATION	SIGNATURE
10/10/08	DAVE BLEVIN	EVERGREEN	<i>[Signature]</i>
10/6/08	Jeff Duke	EVERGREEN	<i>[Signature]</i>
10/6/08	Miguel Flores	EVERGREEN	<i>[Signature]</i>
10/6/08	Kevin T. Blevin	Evergreen	<i>[Signature]</i>
10/13/08	DANIEL LOVE	STND GARDEN	<i>[Signature]</i>
10-20-08	Russell Downer	NAES	<i>[Signature]</i>
10-20-08	Larry Halstead	NAES	<i>[Signature]</i>
10-20-08	Jeremiah Hayes	NAES	<i>[Signature]</i>
10-22-08	Phillip Perez	Face Corp.	<i>[Signature]</i>
10-22-08	Louis E Winkler	EVERGREEN	<i>[Signature]</i>
10-27-08	Grant Fowler	Naes	<i>[Signature]</i>
10-27-08	Jac Barnes	NAES	<i>[Signature]</i>
10-27-08	PAUL ROSS	NAES	<i>[Signature]</i>

PacificCorp  
Morrison Creek Substation Project

EPG  
August 2008