

HSRA GI Mitigation Measures
November 2015

The following mitigation measures are part of the Special Use Permit for the California High Speed Rail Authority (HSRA) geophysical/ geotechnical investigation (GI) feasibility study. The USFS may consider deviations from these mitigation measures on a case-by-case basis.

1. Fire: The provisions in the attached Fire Plan shall be implemented prior to and during work related to this Permit.
2. Operation Plan; Safety, Emergency, and Communication Provisions: The HSRA shall prepare and implement an operations plan including safety, emergency, and communication provisions acceptable to the USFS prior to the start of work.
3. Botany and Wildlife:
 - The HSRA shall implement the mitigation measures in the attached “Botany and Wildlife Avoidance and Minimization Measures for HSR Geotechnical Drilling,” Dated October 2015.
 - The HSRA shall implement the restoration measures in the attached restoration plan dated November 2015.
4. Archeological and Cultural Resources: The HSRA shall implement the mitigation measures discussed in the Section 106 Tracking Form (16SO01ISP) and outlined below.
 - Adjacent to drill site E1-B1: Archeological monitoring of drilling until bedrock is reached.
 - Adjacent to drill site FS-B1. Flag site along north boundary (along road) and avoid. Archeological monitoring of drilling until bedrock is reached.
 - Use of the transportation system through historic property boundaries located within access roads is allowed, all other activities within historic property boundaries are prohibited.
 - Monitoring will be conducted by an archaeologist who meets the Secretary of Interior Standards for Archaeology and is working under a Permit for Archaeological Investigations, and will provide a report documenting the monitoring to the Angeles NF Heritage Program Manager.
5. Groundwater:
 - The HSRA shall implement the mitigation measures discussed on pages 25 to 30 of the GI Proposal dated August 2015.
 - The HSRA shall verify the effectiveness of the groundwater mitigation measures on the boring along 3N17 prior to starting the borings at Dillon Divide.
 - The HSRA shall obtain any drilling permit required in the County of Los Angeles.
6. Noise and Vibrations: The HSRA shall comply with Los Angeles County noise and vibration ordinances.

7. Hazardous Material and Waste:

- The HSRA shall comply with all Federal, State, and Local laws and regulations concerning any hazardous material and waste.
- The HSRA shall submit for USFS approval, the MSDSs for all products to be used for the drilling operations, and shall use these products per manufacturer's specifications.

8. Best Management Practices: The HSRA shall follow all applicable provisions in the attached Best Management Practices.

9. If the USFS determines that information provided in the GI Proposal, which was used as the basis for this Permit, is substantially inaccurate; or if it becomes aware of any new substantially adverse information, it may suspend the Permit until the issue is resolved to its satisfaction.

10. The HSRA shall provide traffic control (using signs and flagmen) as needed on Little Tujunga Road and Sand Canyon Road, and as required by County of Los Angeles Department of Public Works.

11. The HSRA shall coordinate its use of site E1/B2 with Los Angeles County Department of Public Works, which uses this location as disposal site.

12. The HSRA shall make its raw data related to the GI study available to USFS permit inspectors at any time.

13. The HSRA shall clear any alternate drilling location with the USFS prior to the start of drilling.

14. The HSRA shall repair any damage to USFS roads caused by HSRA operations.

15. Work Hours: Normal work hours shall be Monday through Friday, sunrise to sunset. Limited work, such as repair or maintenance of equipment and housekeeping, may be performed 24 hours a day provided Los Angeles County noise ordinance limitations are not exceeded, and provided light pollution is mitigated (such as by providing light aimed downward into the work area, or providing screens).