

# Night Work Lighting Plan

## 72-Hour Aquifer Test at TW-3D

PG&E Topock Final Groundwater Remedy Project  
Groundwater Partners, Inc  
June 1, 2020

### 1.0 Application

This document describes the lighting plan for night work at the (a.) MW-20 Bench while it is being used as the primary work area during the 72-Hour Aquifer Test at TW-3D, and (b.) work locations outside of the MW-20 Bench. Excluded from this plan is any illumination needed to meet health and safety requirements in accordance with Section 5.4.2 (Illumination) of the Programmatic Health and Safety Plan for PG&E Topock Final Groundwater Remedy Phase 1 Construction Project dated July 2019. Personal safety illumination requirements will be reflected in contractors job safety analysis (JSA).

### 2.0 MW-20 Bench Area Lighting Using Portable Light Plants

Up to three portable light plants each powered by a diesel generator (less than 50 hp) will be used at the MW-20 Bench. The light plants will be positioned near the north and central area of the Bench (and potentially in the south area of the Bench) to provide safe working areas. The lights will be pointed downward, and away from the bat roosts under BNSF Bridge and will be located at a minimum of 250 feet away from the BNSF Bridge.

The light plants may be used from dusk until dawn during the night while they are in need.

### 3.0 Work Location Lighting Using Vehicle Headlights

Workers will use vehicle headlights to illuminate their path driving to each location. Head lights may remain on while a worker parks and prepares to complete work, for approximately 5 minutes. However, vehicle headlights will not remain on for extended periods of time, greater than roughly 5 minutes.

### 5.0 Required BMPs

- Lights shall be angled toward the ground, reduced in intensity to levels compatible with safe illumination requirements and limited in duration of usage.
- Lights will be used to illuminate active work areas and sampling locations and if not needed for extended periods of time, will be turned off.
- Permanent lights or light poles will not be installed.

- Portable light plants will include shielding and shrouding to promote downward light focus and reduce light diffusion, to the extent feasible.
- Portable light plants will not be used outside of the MW-20 Bench area.
- The lowest feasible amount of lighting at the lowest allowable amount to maintain adequate night lighting for safety purposes, will be used.
- Lights will be oriented such that off-site visibility of light sources, glare, and work activities is limited.
- A responsible member of the construction crew (e.g., foreman or crew boss) will be designated to extinguish the lighting as soon as the night time work is completed.
- Lights with high blue-white or ultraviolet content shall be avoided.

## 6.0 Attachments

- An example of a typical light plant that may be utilized during night work.

