

## FACT SHEET

ORDER NO. R5-2015-0012  
KIEFER LANDFILL  
IN-SITU GROUNDWATER REMEDIATION AND DISCHARGE OF TREATED  
GROUNDWATER TO LAND  
SACRAMENTO COUNTY

The Kiefer Landfill (site or landfill) is a 1,084-acre, class III, solid waste disposal site that is owned and operated by Sacramento County (County). The landfill is located at the intersection of Grant Line Road and Kiefer Boulevard about 15 miles east of Sacramento and 1 mile north of Sloughouse. Lined Module M1-L was activated in 1994. Filling commenced at lined Module M-2 in April 2004 and lined Module M-3 in March 2009.

The hydrostratigraphy at Kiefer Landfill of interest to this report can be classified into three water bearing sand zones with “aquitards” (fine-grained soils – clays, silts, that restrict vertical water flow) of varying degree separating them. These zones are identified as Zone A, Zone B, and Zone C. The Kiefer Landfill groundwater extraction and treatment plant (KTP) consists of fifteen extraction wells and two treatment towers and has been operational since 1995. KTP has been withdrawing contaminated water from Zone A and Zone B water-bearing zones and removing contaminants from the extracted water (air-stripping). Treated water was discharging to nearby Deer Creek until July 2018, when onsite infiltration basins were placed into service as part of an approved pilot program to collect discharge from the treatment plant.

Prior to implementation of the infiltration basins, the National Pollutant Discharge Elimination System (NPDES) permit No. CA0083681 was utilized to discharge treated groundwater to surface water from KTP. In July 2018, the Limited Threat General Waste Discharge Requirements Order R5-2016-0076-033 and NPDES Permit No. CAG995002 was issued for Kiefer Landfill. However, due to use of the infiltration basins beginning in July 2018, no treated water has been discharged to Deer Creek since that date. In accordance with the Revised Kiefer Landfill Basin Pilot Study Work Plan (Discharge Work Plan), approved by the Central Valley Regional Water Quality Control Board (CVRWQCB) on January 31, 2018, treated water is discharged to one of two infiltration basins on an alternating basis.

Quarterly reports were submitted to the CVRWQCB documenting infiltration rates, freeboard, and results from the groundwater and effluent monitoring. After the one-year pilot study was completed, a Discharge Basin Pilot Study Summary Report and Quarterly Report was submitted on October 7, 2019 that documented the success of the infiltration basins and recommended permanent use of the infiltration basins. The County submitted a Notice of Intent (NOI) on November 1, 2019 to have the discharge to the infiltration basins be covered under the General Order No. R5-2015-0012. Groundwater and effluent monitoring will continue to be reported on a semiannual basis.