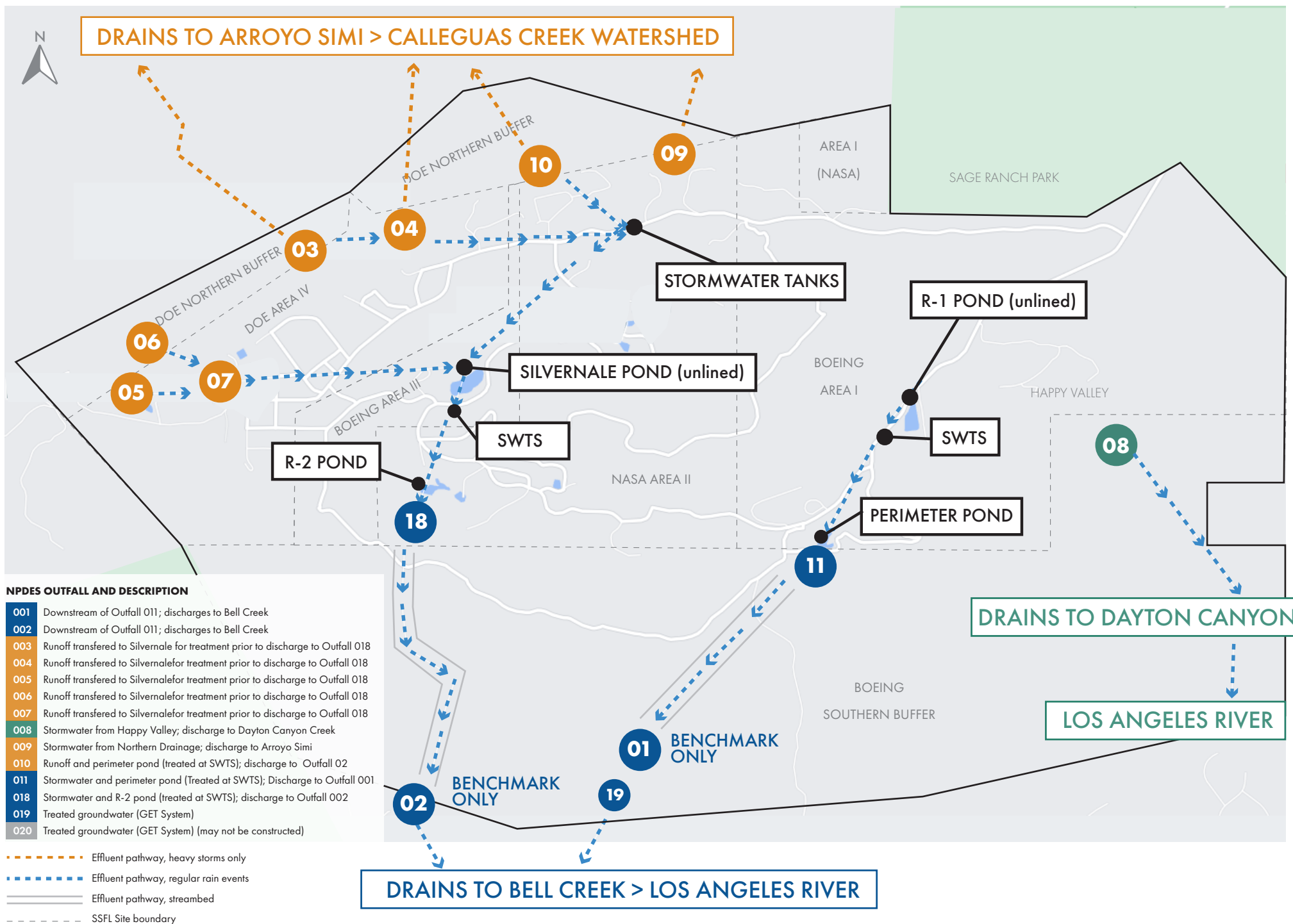


SSFL Surface Water Pathways

November 17, 2022



Definitions

Area IV: One of the most radioactively contaminated sites at the SSFL.

Benchmarks: Outfalls that monitor pollution but aren't regulated by the NPDES. These outfalls don't incur fines for exceedances.

Calleguas Creek Watershed: One of the primary watersheds in Ventura County. The watershed is used for residential drinking water, crop irrigation, recreation, supports wildlife, and terminates in the Pacific Ocean.

DOE: Department of Energy, one of the three responsible parties at the Santa Susana Field Lab.

Effluent: Liquid waste or sewage discharged into a river or the sea.

Effluent Pathways, streambed: Treated water travels in open creeks where it can be contaminated again while in route to outfalls.

Exceedance: When a contaminant in water runoff goes above the maximum contamination level set by the NPDES.

Groundwater: Water present beneath the surface. It differs from surface water, which is regulated by the LARWQB. Groundwater at the SSFL is regulated by the DTSC.

Groundwater Extraction Treatment (GET): doesn't treat surface water. It pumps groundwater out, treats it, and runs it back into the groundwater. Boeing no longer uses GET during dry weather.

Happy Valley: One of the most chemically contaminated sites at the SSFL.

Los Angeles Regional Water Quality Control Board (LARWQCB): A government agency under the California EPA. The LARWQCB regulates polluters who discharge surface water/rain runoff/effluent into local waterways. The LARWQCB regulates Ventura County and Los Angeles surface water.

NPDES: National Permit Discharge Elimination System. A federal system, enforced by local Water Quality Control Boards, to monitor and regulate the amount of pollution from stormwater runoff into waterways.

Outfalls: Pollution monitoring stations, locations are determined by the NPDES. Outfalls 001 and 002: Both outfalls are benchmarks. They are monitored but not regulated. Approximately 60% of the effluent at SSFL is released through outfalls 001 and 002.

Outfalls 003 - 009: During heavy storms, drain to Arroyo Simi. During lighter rain, pumped to Silvernale.

Storm Water Treatment System (SWTS): Effluent from Outfalls from 003-007 are routed to Silvernale, an unlined pond. Effluent percolates through pond, contaminating groundwater. Less-contaminated effluent is then pumped to the SWTS. After treatment, the surface water is routed via open creekbeds to Outfalls 001 and 002.

Unlined Ponds: Effluent is allowed to percolate in unlined ponds until the ponds are at capacity for holding water. Effluent is then pumped out of ponds and into SWTS for treatment.

Follow-up Water Meeting: Online

Tuesday, November 22, 2022 at 7:00 pm

Join us online with independent experts to discuss surface and groundwater issues surrounding the Santa Susana Field Lab. We will correct any misinformation provided by Boeing's Expert Panel as well as review the MOU agreement and Boeing's upcoming NPDES renewal. Register in advance: www.parentsagainstssfl.com/new-events



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