



California Regional Water Quality Control Board

Central Valley Region

Robert Schneider, Chair



Alan C. Lloyd, Ph.D.

Secretary for
Environmental
Protection

Fresno Branch Office

1685 E Street, Fresno, California 93706
(559) 445-5116 • Fax (559) 445-5910
<http://www.waterboards.ca.gov/centralvalley>

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CROWS LANDING
SSIC NO. 5090.3.A

Arnold
Schwarzenegger
Governor

Mr. Michael S. Bloom
Department of the Navy
Base Realignment and Closure
Program Management Office West
1455 Frazee Road, Suite 900
San Diego, CA 93108

16 November 2005

DISCONTINUATION OF PERCHLORATE ANALYSIS IN GROUNDWATER MONITORING PROGRAM, NASA CROWS LANDING FLIGHT FACILITY, CROWS LANDING, STANISLAUS COUNTY

We have reviewed the 12 October 2005 *Transmittal Summary Report, Verification of Perchlorate Detections* at the NASA Crows Landing Flight Facility near Crows Landing in Stanislaus County. Your consultant, Shaw Environmental, Inc. (Shaw), prepared the *Transmittal Summary Report*.

In August 2005, groundwater samples from ten monitoring wells were collected for perchlorate analysis using EPA Method 8321-MOD. The monitoring wells selected for perchlorate sampling were located at the various IRP and UST sites across the Crows Landing facility. Eight of the sampled wells were screened in the shallow zone (screen interval from approximately 50 feet to 75 feet below ground surface [bgs]), and the remaining two wells were screened in the mid-shallow interval (approximately 90 feet to 110 feet bgs). Results of the chemical analysis for perchlorate ranged from nondetect to 1.8 micrograms per liter ($\mu\text{g/L}$). Three of the analytical results were reported as estimates (J values) due to matrix interference at 1.6J $\mu\text{g/L}$, 2.2J $\mu\text{g/L}$, and 2.4J $\mu\text{g/L}$. The perchlorate public health goal (PHG) for drinking water is currently set at 6 $\mu\text{g/L}$. As such, all perchlorate detections in the August 2005 sampling event were below the PHG.

Based on the results of the chemical analysis, Shaw recommended that perchlorate analysis be discontinued as part of the groundwater-monitoring program. We agree with this recommendation. As such, further chemical analysis for perchlorate at the Crows Landing facility is no longer required.

If you have any questions, please contact Greg Issinghoff at 559-488-4390.

Russell W. Walls

RUSSELL W. WALLS
Senior Engineer
RCE No. 43140

GJI:gji

See attached sheet for cc list

California Environmental Protection Agency



cc: Mr. Don Chuck, NASA Ames Research Center, Moffett Field
Ms. Francesca D'Onofrio, California Department of Toxic Substances Control, Sacramento
Mr. Alan Berry, California Integrated Waste Management Board, Sacramento
Ms. Nicole Damin, Stanislaus County Hazardous Materials Division, Department of
Environmental Resources, Modesto
Mr. Keith Boggs, Stanislaus County Chief Executive Office, Modesto