

Reply to Attn of: DQH: 218-1

October 29, 1993

Mr. Joseph Spano
Department of Health Services
Division of Drinking Water and Environmental Management
31 East Channel Street, Room 270
Stockton, CA

RE: Crows Landing, Permit # 50 700

Dear Mr. Spano:

This letter addresses the Department of Health Services (DHS) letter of October 13, 1993.

PUBLIC NOTIFICATION:

On October 28, 1993 NASA posted warning signs using the specific language specified in the DHS draft letter dated October 27, 1993. The warning signs are currently posted at all bathroom facilities, sinks and a laundry facility. Based on a conversation between Joe Spano, David King and Shelly Navarro on October 28, you indicated that the requirement to hand deliver notices to employees is no longer required. NASA has posted warning signs, requested by DHS, and intends to reclassify the Crows water system as non-potable. A copy of the warning sign is enclosed for your review.

On October 29, 1993 NASA turned the water off to all sinks and hose bibs at Crows Landing. The water to the toilets in the Administration building, the Control Tower and the NASA research trailers has been left operable for employee use. The water to the fire hydrants and fire truck fill stand remain open. Therefore, the requirement to provide a copy of the warning notification to other users such as visiting friends and family and new employees is not applicable at this time. The DHS warning signs, as discussed in the above paragraph, will remain posted.

RECEIVED
OFFICE OF DRINKING WATER
STOCKTON
NOV 3 1993

INVESTIGATION:

Current operating procedures are not believed to be a cause in the increase in bacterial count in the water system.

There has been an interruption in the water treatment process. The agitator on the chlorinator was not functioning. The agitator has been repaired and is currently functioning properly.

It is difficult to determine if there have been pressure losses in the water system. We have noted employees in the NASA research trailers commenting on the noticeable increased water flow since NASA has taken responsibility for the site. NASA believes that the noticeable increased water flow is a result of the closure of water lines to unused buildings.

Vandalism has not been witnessed nor have the results of vandalism been observed. There has been a police officer from the City of Patterson at the Crows Landing facility 24 hours a day since NASA has taken responsibility for Crows Landing. In addition, there are chain link fences topped with barbed wire surrounding the well and its associated equipment as well as the water holding, pressure tank, pump house and chlorination house and associated equipment.

There has not been any physical evidence indicating the cause of the bacterial contamination of the water system.

There have not been any additional analytical results to share with DHS. Since NASA intends to reclassify the water system as non-potable and has taken measures to minimize human contact with the water (close water lines to sinks and showers). NASA feels that the 24 hour reporting requirement of bacteria sampling results does not apply. NASA will submit any additional results to DHS as they become available.

There have not been any known reported community illnesses.

MITIGATION:

Well 2 was disinfected with sodium hypochlorite on October 18. On October 19, after 24 hours had passed, the system was flushed by opening fire hydrants.

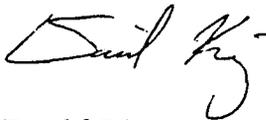
On October 27 the 150,000 gallon water holding tank was disinfected with sodium hypochlorite to result in a chlorine residual of approximately 3 ppm. The system was sampled on October 29 for bacterial analyses at the well, holding tank and fire truck fill pipe.

The chlorinator tank has been refilled with calcium hypochlorite. The regulator has been adjusted accordingly. The agitator is working properly to ensure chlorine flow into the pumped water.

NASA intends to reclassify the water system as non-potable. Only the water lines to fire hydrants, fire truck fill pipe and toilets remain open. The bacteria sampling will be collected from the well #1 (operable), well #2 (inoperable), the holding tank and the fire truck fill pipe.

NASA would appreciate a response to this letter by Wednesday November 3, 1993. If you should have any questions, please contact either Shelly Navarro at (415) 604-0926 or David King at (415) 604-1316.

Sincerely,

 10/29/93

David King
Industrial Hygiene Program Manager


Mike Falarski
Moffett Field Development Project Manager

cc: C. Burrows
S. Brisbin
S. Olliges
L. Vrabel
S. Navarro

CNB

**THE WATER PROVIDED BY THE NASA CROWS
LANDING DOMESTIC WATER SYSTEM IS
CONTAMINATED AND IS UNFIT FOR HUMAN
CONSUMPTION.**

- The California Department of Health Services (Department) sets drinking water standards and has determined that the presence of fecal coliforms and E. Coli are generally not harmful themselves, but their presence in drinking water is serious because they usually are associated with sewage or animal wastes. The presence of these bacteria in drinking water is generally the result of a problem with water treatment or the pipes which distribute the water, and indicates that the water may be contaminated with organisms that can cause disease. Disease symptoms may include diarrhea, cramps, nausea, and possibly jaundice and associated headaches and fatigue. These symptoms, however are not just associated with disease-causing organisms in drinking water, but also may be caused by a number of factors other than your drinking water. The Department has set an enforceable drinking water standard for fecal coliforms and E. coli to reduce the risk of these adverse health effects. Under this standard all drinking water which meets this standard is associated with little or none of this risk and should be considered safe. The Department recommends that consumers take the following precautions:

- **ONLY BOTTLED WATER SHALL BE USED
FOR HUMAN CONSUMPTION UNTIL
NOTIFICATION OF THE AVAILABILITY OF SAFE,
POTABLE WATER IS PROVIDED IN WRITING BY
NASA.**

TRANSMITTAL

Date: 3 August 2001

From: Lynn Marie Hornecker *LMA*
CROWS LANDING

To: Diane Silva
Code 01LS.DS

Subj: CERCLA Administrative Record Materials
Former Naval Auxiliary Landing Field, Crows Landing

Installation: Former Naval Auxiliary Landing Field, Crows Landing

UIC Number: N60211

Document Title (or subject): Crows Landing Permit #50 700

Author: David King, NASA

Recipient: Joseph Spano

Record Date: 29 October 1993

Approximate Number of Pages: 4

EPA Category: 01.1

Sites: 17

Key Words: domestic water supply, coliform

Contract: N/A

CTO Number: N/A