

APPENDIX E
BIOASSESSMENT REPORT

Date: May 16th, 2011

To: Bronwyn Kelly
Senior Geologist
MWH Americas, Inc.
618 Michillinda Ave., Suite 200
Arcadia, CA 91007

From: Scott Johnson
Laboratory Director
Aquatic Bioassay and Consulting Laboratories
29 N. Olive St.
Ventura, CA 93001



RE: BIOASSESSMENT SAMPLING FOR THE BOEING COMPANY AT THE SANTA SUSANA FIELD LABORATORY (2011)

The Bioassessment Sampling and Analysis Plan for The Boeing Company at the Santa Susana Field Laboratory (SSFL) specifies that spring/summer bioassessment sampling occur from four to six weeks following the last major storm event of the 2011 rain season. This time period was established by, and is included in, the state-wide bioassessment protocols established by the State of California's Surface Water Ambient Monitoring Program (SWAMP 2007). Flowing water through a stream reach over this period of time is necessary for the aquatic benthic macroinvertebrate (BMI) community that might reside there to become established and ensures that valid BMI samples will be collected.

The last storm to generate flow occurred on March 25th, 2011, when 0.45 inches of rain fell on the SSFL property (Figure 1). The final measurable rainfall occurred on April 24th, 2011 when 0.02 inches fell. Discharges from Outfalls 1, 5 and 6 stopped within a week of the March 25th rain event based on site visits by Boeing staff. On May 13th, 2011 Scott Johnson visited each of these outfalls and confirmed that they were dry and that valid BMI samples could not have been collected (see photos).

As specified in the Sampling and Analysis plan, bioassessment sampling at the SSFL may occur during the fall if the groundwater extraction treatment system (GETS) is completed as planned and is continuously discharging into Bell Canyon Creek. If discharge to the Creek does not begin at least four weeks prior to the end of the fall season, sampling will begin during the spring/summer season of 2012 following the last major storm of that rain season.

If you have any questions regarding this memo or future sampling plans please contact me directly.

Sincerely,

Scott Johnson
Laboratory Director
805 643 5621 x 11



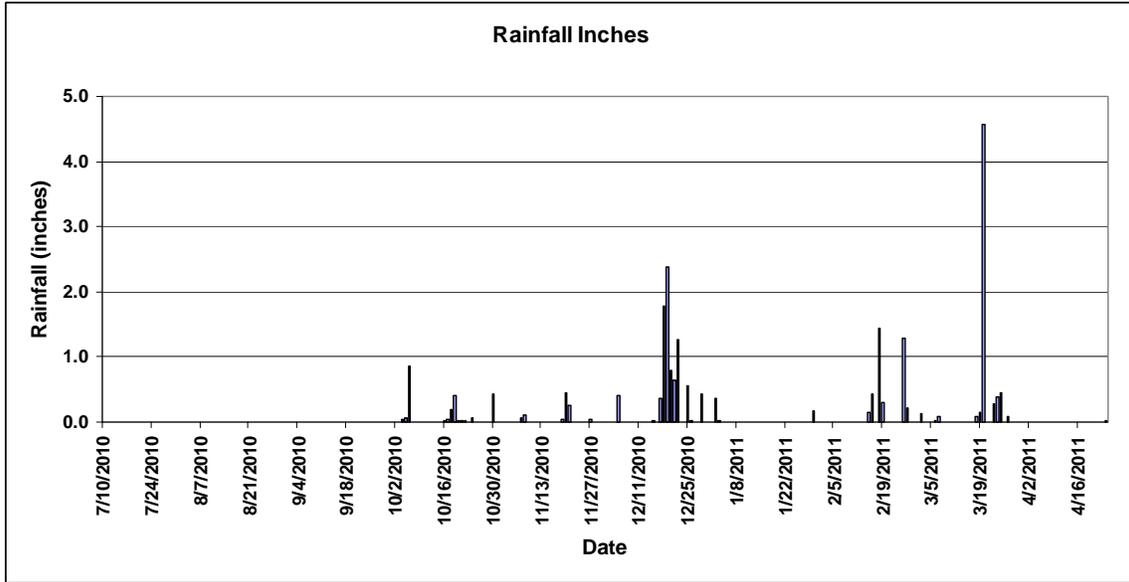


Figure 1. Rainfall (inches) measured thru mid-April on SSFL property during the 2010 to 2011 rain year.



Photos taken downstream and upstream of each permitted discharge point from the SSFL property.



Outfall 1, downstream



Outfall 1, upstream



Outfall 5, downstream



Outfall 5, upstream



Outfall 6, downstream



Outfall 6, upstream

