

TRANSMITTAL

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To: Lynn Hornecker
Date: July 30, 2002

From: David Kelly

Subject: Supplementary Information - Interim Data Summary
Former Oxidation Basins Geophysical Survey

A previous transmittal, *Interim Data Summary, Former Oxidation Basins Geophysical Survey*, dated July 10, 2002 (transmittal # 0025) provided the preliminary results of the geophysical survey in the area of the former oxidation basins at NASA Crows Landing Flight Facility and provided details for proposed test pit excavation and trenching activities. This transmittal is intended to supplement the information in the previous transmittal to clarify specific issue of concern.

The previous transmittal stated that no samples will be collected for chemical or physical analysis during test pit excavation /trenching. This statement specifically relates to investigation of the impact to soil and groundwater from the current and former sewer system. Soil, soil gas, and groundwater sampling was conducted as part of the current and former sewer system investigation and the results are documented in the Draft Current and Former Sewer System Site Investigation Report (TtEMI, 1999). The proposed test pit excavation/trenching activities are being completed to determine the location of historical features and investigate the potential that waste was disposed at the location of the former facilities. If waste is encountered during the proposed field activities and it is determined that the waste may require removal and disposal, samples may be collected for disposal characterization to support the feasibility study, cost estimating, and site remediation. Analytical requirements for waste characterization samples are included in the *Soil Vapor Extraction Optimization for the Remediation of UST Cluster 1 and Site Verification Activities at Various Sites, NASA Crows Landing Flight Facility, Sampling and Analysis Plan* (IT, 2001).

As stated in the previous transmittal, material generated from the test pit and trenching activities will be staged near the pits and backfilled into the excavation after it is logged and photographed. Some material (relatively small pieces of construction debris) may be segregated for off-site disposal. Large-scale excavation and off-site disposal is not planned as part of the test pit excavation/trenching activities. Although not anticipated, if waste is encountered that poses a threat to the workers or the public, (i.e. unexploded ordnance, asbestos containing material, leaking drums, etc.), excavation will stop in that area and the appropriate measures will be taken to isolate the waste. A removal action may be initiated but only after a removal action plan is prepared.

Several strong metallic anomalies are evident in the EM-61 geophysical data along Bell Road and below access roads off of Bell Road. In determining the proposed test pit locations, these anomalies were field verified to determine if they represented surface features. In most cases the anomalies

represented utility vaults and culverts. Where surface features were evident, no test pit/trenching was proposed.

Several metallic and terrain conductivity anomalies were identified during the geophysical survey that appear to be linear and potentially represent buried utilities. Previous investigations including a literature study, the site investigation, a passive soil gas survey, a previous geophysical survey, and test pit/trenching activities conducted in the area have identified most of the historic sewer pipeline features. The former sewer pipeline was field located south of the current geophysical survey area and was determine to terminate at the former septic tanks (southwest corner of the survey area). Several small sections of pipe were field located between the septic tanks and leading from the tanks to the edge of the southernmost oxidation basin. The current sewer pipeline has been traced and runs near and parallel to Bell Road. No other pipelines are documented on former sewer system as-built drawings. Any linear anomalies evident in the recent geophysical survey are not likely pipelines associated with the current or former sewer system. Test pits and/or trenches are proposed at the locations of several linear anomalies to investigate if a pipeline or utility exists at that location. If one is discovered, addition trenching may be conducted, as necessary to investigate the nature of the feature.

NASA has scheduled to shut down power to the research facility on August 8 to allow for the test pit excavation/trenching activities. Fieldwork is scheduled to be completed between August 12 and August 15.

cc: B Hulet
T Barry
Project File

INTERIM DATA SUMMARY
FORMER OXIDATION BASINS GEOPHYSICAL SURVEY

DATED 10 JULY 2002

THIS DOCUMENT WAS NOT RECEIVED IN THE
RESTORATION RECORD FILE.

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