

CDM FEDERAL PROGRAMS CORPORATION

a subsidiary of Camp Dresser & McKee Inc.

December 15, 1992

Mr. Erwin Smieszek
TES V Regional Project Officer
U.S. Environmental Protection Agency
26 Federal Plaza, Room 737
New York, NY 10278

PROJECT: TES V, EPA CONTRACT NO: 68-W9-0002
Work Assignment C02048
Tutu Well Field Site
St. Thomas, U.S. Virgin Islands

DOCUMENT NO: TESV-C02048-EP-CSNM

SUBJECT: Technical Review of the Soil Gas Survey
UST Areas, Four Winds Shopping Center
Document Control No: TESV-C02048-LR-CSNN

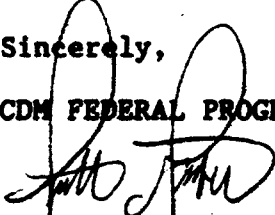
Dear Mr. Smieszek:

Please find enclosed the letter report titled "Technical Review of the Soil Gas Survey, UST Areas, Four Winds Shopping Center, Performed by Target Environmental Services Inc. in September 1992" as partial fulfillment of the reporting requirements for work assignment C02048.

If you have any comments regarding this submittal, please contact Sally Odland of CDM Federal Programs Corporation at (212) 393-9634 within two weeks from the date of this letter.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION


Scott B. Graber
TES V REGIONAL MANAGER

Attachment

cc:  EPA Work Assignment Manager
S. Odland, CDM FPC Work Assignment Manager
Document Control, CDM FEDERAL PROGRAMS CORPORATION (2 copies)
NYC File

TUT 006 1680

TECHNICAL REVIEW OF THE SOIL GAS SURVEY
UST AREAS, FOUR WINDS SHOPPING CENTER
PERFORMED BY TARGET ENVIRONMENTAL SERVICES INC.
IN SEPTEMBER, 1992

TUTU WELL FIELD SITE
ST. THOMAS, U.S. VIRGIN ISLANDS

Prepared for

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Waste Programs Enforcement
Washington, D.C. 20460

EPA Work Assignment No.	: C02048
EPA Region	: II
Site No.	: 2P1D
Contract No.	: 68-W9-0002
CDM FEDERAL PROGRAMS	
CORPORATION Document No.	: TESV-C02048-LR-CSNN
Prepared By	: CDM FPC
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Date Prepared	: December 15, 1992

CDM FEDERAL PROGRAMS CORPORATION
a subsidiary of Camp Dresser & McKee Inc.

December 15, 1992

Ms. Caroline Kwan
U.S. Environmental Protection Agency
26 Federal Plaza
New York, New York 10278

PROJECT: TES V, EPA CONTRACT NO: 68-W9-0002
Work Assignment C02048
Tutu Well Field Site
St. Thomas, U.S. Virgin Islands

DOC. NO. TESH-C02048-EP-CSNN

SUBJECT: Technical Review of the Soil Gas Survey
UST Areas, Four Winds Shopping Center
Performed by Target Environmental Services Inc.
in September, 1992

Dear Ms. Kwan:

Per your request of November 25, 1992, CDM Federal Programs Corporation (CDM Federal) has reviewed the report titled "Soil Gas Survey, UST Areas, Four Winds Shopping Center, Tutu Area, Anna's Retreat, United States Virgin Islands". The report was prepared by Target Environmental Services (Target) on behalf of the law offices of John K. Dema, representing Four Winds Shopping Center.

Target conducted the soil gas survey on the western side of the Four Winds Shopping Center. The objectives of the survey were to determine if reported underground storage tanks (USTs) located on the western side of the shopping center might have contributed to contamination previously detected in the parking lot east of the shopping areas, and to determine if the reported USTs have impacted water or soil quality in the immediate area.

Target sampled 35 points on the shopping center's western side for chlorinated hydrocarbons and compounds commonly used as industrial solvents: 1,1-dichloroethene, methylene chloride, trans-1,2-dichloroethene, 1,1-dichloroethane, cis-1,2-dichloroethene, chloroform, 1,1,1-trichloroethane, carbon tetrachloride, trichloroethene (TCE), 1,1,2-trichloroethane, and tetrachloroethene (PCE). Samples were also analyzed for compounds commonly related to petroleum products or petroleum-based solvents: methyl tertiary butyl ether (MTBE), benzene, toluene, ethylbenzene, meta- and para-xylene, and ortho-xylene.

The results of the survey indicated low levels of volatile organics (maximum of 77 ug/l total FID volatiles) related to petroleum products in samples collected adjacent to the Western Auto garage and in one sample collected in the northwestern corner of the Four Winds property. Low levels of tetrachlorethene (PCE) were detected in samples collected in the northern portion of the survey area between the buildings, and in two samples collected adjacent to the southwestern corner of the Four Winds Plaza building.

Based on the analytical findings of the soil gas survey, Target concluded the following:

- o Low levels of petroleum hydrocarbons are present west of the Western Auto garage;
- o These levels are typical of "background" concentrations common to auto service areas and do not appear to indicate a release;
- o The contamination may be related to the reported UST in the area, but does not appear to be related or contributing to contamination detected on the eastern side of the shopping center in a January 1992 soil gas study; and
- o Low levels of PCE are present north and southwest of the Four Winds Plaza building. The source for this contamination could not be identified without further sampling.

Upon review of the field and laboratory procedures and quality control measures utilized during the soil gas survey, CDM Federal has determined that Target's conclusions appear reasonable. The levels of petroleum-related compounds detected do not suggest a release from the reported UST; such levels could be produced by minor petroleum product spills during routine service station operations.

CDM Federal has not seen or reviewed the January 1992 Soil Gas Survey of the eastern side of the shopping center which is referred to in this report. Consequently, we could not compare the detections on the east side with those on the west. However, the detections on the western side are low-level and appear to be localized. The areas identified are not likely sources for the soil and groundwater contamination that has been documented on the the eastern side of the shopping center.

If you have any questions concerning this review, please do not hesitate to call me at (212) 393-9634.

Sincerely,

CDM FEDERAL PROGRAMS CORPORATION



Sally Odland
Work Assignment Manager

cc: Catherine Moyik, EPA RPO, CERCLA REGION II
J. Steven Paquette, CDM FPC, Boston
Scott Graber, CDM FPC, NYC
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