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Omega Chemical Superfund Site

Final On-Site Soils Remedial Investigation Report

November 14, 2007

Submitted to:

U.S. Environmental Protection Agency
Region IX

Prepared for:

Omega Chemical Site
PRP Organized Group

Prepared by:

CDM
111 Academy Way, Suite 150
Irvine, California 92617

Project No. 10500-37240-T2.OSS.REPORT

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November 14, 2007

Mr. Chris Lichens
Remedial Project Manager
U.S. Environmental Project Manager Agency-Region IX
75 Hawthrone Street (SFD-7-4)
San Francisco, CA 94105

Re: Final Remedial Investigation Report,
Omega Chemical Superfund Site, Whittier, California

Dear Mr. Lichens:

Enclosed is the final Remedial Investigation (RI) Report for the Omega Chemical Superfund Site, Whittier, California. The RI incorporates the comments that were provided in the conditional approval letter submitted by the USEPA on October 18, 2007, and the additional comments provided by USEPA on October 29, 2007. In addition, the final RI Report has been updated to include a discussion regarding the initial and expanded phases of the SVE pilot test.

Should you have any questions, regarding the above, please contact me.

Sincerely,
Omega Chemical Site PRP Organized Group

Edward Modiano
Project Coordinator

Cc: Tom Perina, CH2MHIL
Lori Paranass, DTSC
Dave Chamberlin, CDM
Sharon Wallin, CDM

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The information contained in this *On-Site Soils Remedial Investigation Report*, dated November 14, 2007, has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgments and are based upon findings from the investigation identified in the report and the interpretation of such data based on our experience and background. This acknowledgment is made in lieu of all warranties, either expressed or implied.

Reviewed and Approved by

PROFESSIONAL GEOLOGIST
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List of Acronyms

AA - ambient air

API - American Petroleum Institute

ASTM - American Society of Testing and Materials

ATSDR – Agency of Toxic Substances and Disease Registry

Bgs - below ground surface

Cal/EPA - California Environmental Protection Agency

Cardinal - Cardinal Environmental Consultants

CCR - California Code of Regulations

CDM – Camp Dresser & McKee Inc.

CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

CFR - Code of Federal Regulations

COPC – chemicals of potential concern

CHHSLs – California Human Health Screening Levels

DCA - dichloroethane

DCE - dichloroethene

DHS - Department of Health Services

DOT - Department of Transportation

DNAPL – dense non-aqueous phase liquid

DQO – data quality objectives

DSR - Data Summary Report

DTSC - Department of Toxic Substances Control, a branch of Cal/EPA

DWR - California Department of Water Resources

ECD - Electron capture detector

EE/CA - Engineering Evaluation/Cost Analysis

ELAP - Environmental Laboratory Accreditation Program

England & Hargis - England & Associates and Hargis + Associates

ESA - Environmental Site Assessment

FID - flame ionization detector

FS - Feasibility Study

GAC - granular activated carbon

GC/MS - gas chromatography/mass spectrometry

HASP - health and safety plan

HBRGs – Health Based Remediation Goals

Hg - Mercury

HHRA – Human Health Risk Assessment

HI – Hazard Index

HVAC - heating, ventilating, and air conditioning

IA - indoor air

IDW - investigation-derived waste

LARWQCB - Los Angeles Regional Water Quality Control Board

LCS – laboratory control sample

mg/kg - milligrams per kilogram

mg/L - milligrams per liter

mg/m3 - milligrams per cubic meter

MCL – maximum contaminant level

MIP - membrane interface probe

ml/min - milliliters per minute

msl - mean sea level

MS/MSD – matrix spike/matrix spike duplicate

MTBE - methyl tertiary butyl ether

NELCO - New England Lead Burning Company

NOV - Notice of Violation

NPL - National Priorities List

Omega - Omega Chemical Corporation

OPOG - Omega Chemical Site PRP Organized Group

OSS – On-Site Soils

OU - operable unit

OVM - organic vapor monitor, usually equipped with a PID

PCB - polychlorinated biphenyl

PCE - tetrachloroethene

PID - photoionization detector

ppbv/v - parts per billion volume / volume

PPE - personal protective equipment

PRGs – Preliminary Remediation Goals

PPM - parts per million

PRP - Potentially Responsible Party

QA/QC - quality assurance/quality control

RCRA - Resource Conservation and Recovery Act

RI - Remedial Investigation

RPD - relative percent difference

SB - soil boring

SCEM - site conceptual exposure model

SCFM – standard cubic feet per minute

SG - soil gas

Site - Omega Chemical Superfund Site

SOW – Statement of Work

SS - surface sample

SSD - sub-slab depressurization

SVE - soil vapor extraction

SVOC - semi-volatile organic compounds

TCA - trichloroethane

TCE – trichloroethene

TDS – total dissolved solids

TOC - total organic carbon

TM – Technical Memorandum

TVOC - total volatile organic compounds

UAO - unilateral administrative order

UC - utility corridor

USCS – Unified Soil Classification System

USEPA - U.S. Environmental Protection Agency

UST - underground storage tank

VOC - volatile organic compound

VP - vapor point

µg/L - micrograms per liter

µg/kg - micrograms per kilogram