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Acronyms

1,1,1-TCA 1,1,1-trichloroethane

1,1-DCE 1,1, dichloroethene

2D, 3D two dimensional, three dimensional

AC activated carbon

ATP Adenosine triphosphate

AFB Air Force Base

AFCEC Air Force Civil Engineer Center (formerly AFCEE)

AFCEE Air Force Center for Engineering and the Environment (changed to AFCEC)

cc cubic centimeter

cDCE cis-1,2-dichloroethene

CERCLA Comprehensive Environmental Response, Compensation, and Liability Act of 1980

(SuperFund)

CF chloroform

CFR Code of Federal Regulations

cis-1,2- cis-1,2-dichloroethylene

DCE or

cis-DCE

CI Chlorine

CO₂ Carbon dioxide

COC contaminant of concern

COD chemical oxygen demand

COPC contaminant of potential concern

CPT cone penetrometer testing

CSM conceptual site model

CT carbon tetrachloride

Cu Copper

CVOC chlorinated volatile organic compound

CWA Clean Water Act

DBMS data base management system

DCA Dichloroethane

DCE dichloroethene

DDD dichlorodiphenyldichloroethane

DDE dichlorodiphenyltrichloroethylene

DDT dichlorodiphenyltrichloroethane

DDX dimethyl dioxane

DEC Department of Conservation

DEP Department of Environmental Protection

DGM digital geophysical mapping

DIC Dissolved inorganic carbon

DL detection level

DNAPL dense nonaqueous phase liquid

DO dissolved oxygen

DOC dissolved organic carbon

DOD U.S. Department of Defense

DOE U.S. Department of Energy

DOT Department of Transportation

DPT direct-push technology

DQO data quality objective

DQOs data quality objectives

ECOS Environmental Council of the States

EDB 1,2-dibromoethane

Eh oxidation-reduction potential

EMD Environmental molecular diagnostics

EMI electromagnetic induction

EPA Environmental Protection Agency

ERH Electrical resistance heating

ERIS Environmental Research Institute of the States

ESTCP Environmental Security Technology Certification Program

FID flame ionization detector

F_{oc} fraction of organic carbon

g Gram

GAC granular activated carbon

GC gas chromatography/chromatograph

GC/ECD Gas chromatograph/electron capture detector

GC/MS gas chromatography/mass spectrometry

GIS geographic information systems

GPS Global Positioning System

GW groundwater

GWSDAT Groundwater Spatiotemporal Data Analysis Tool

H Hydrogen

Hg mercury

HPT hydraulic profiling tool

IBT internet-based training

IC institutional control

IDSS integrated DNAPL site strategy

ISB in situ bioremediation

ISC integrated site characterization

ISCO in situ chemical oxidation

ISCR in situ chemical reduction

ITRC Interstate Technology and Regulatory Council

KDHE Kansas Department of Health and Environment

L Liter

LiDAR Light Detection and Ranging

LIF laser induced fluorescence

LLDPE linear low density polyethylene

LNAPL Light nonaqueous phase liquid

M molar

MassDEP Massachusetts Department of Environmental Protection

MDEQ Michigan Department of Environmental Quality

MDEQ Montana Department of Environmental Quality

mg Milligrams

MGP manufactured gas plant

MiHpt membrane interface probe hydraulic profiling tool

MIP membrane interface probe

mL Milliliter

MLE multiple lines of evidence

MNA monitored natural attenuation

MNR monitored natural recovery

Mo Molybdenum

MS mass spectrometry

MW monitoring well

N Nitrogen

NAPL nonaqueous phase liquid

NASA National Aeronautics and Space Administration

NAVFAC Naval Facilities Engineering Command

ND nondetect

NFA no further action

NJDEP New Jersey Department of Environmental Protection

NMR nuclear magnetic resonance

NOAA National Oceanic and Atmospheric Administration

NRC National Research Council

NYSDEC New York State Department of Environmental Conservation

O Oxygen

O&M operation and maintenance

oc organic carbon

OM&M operation, maintenance and monitoring

ORP oxidation reduction potential

OSHA Occupational Safety and Health Administration

OSWER USEPA Office of Solid Waste and Emergency Response

OTV Overlay Transport Visualization

OU operable unit

OVA organic vapor analyzer

PAH Polycyclic aromatic hydrocarbon

PAH petroleum halogenated hydrocarbon

Pb Lead

PCBs Polychlorinated biphenyls

PCE perchloroethene (tetrachloroethylene)

PCP pentachlorophenol

PDB polyethylene diffusion bag

PDBS passive diffusion bag samplers

PID photoionization detector

PIG pipeline inspection gauge

PITT partitioning Interwell tracer test

POC point of compliance

Q quantitative

QA quality assurance

QA/QC quality assurance/quality control

QAPP Quality Assurance Project Plan

QC quality control

QL qualitative

RAO remedial action objective

RBCA risk-based corrective action

RCRA Resource Conservation and Recovery Act

RI Remedial Investigation

RI/FS remedial investigation/feasibility study

ROD record of decision

ROI return on investigation

RP responsible party

S Sulfur

SAP sampling and analysis plan

SDWA Safe Drinking Water Act

SG specific gravity

SIM selective ion monitoring

SIMS Secondary-ion mass spectrometry

SIP stable isotope probe

SMART specific, measureable, attainable, relevant, time-bound (referring to goals)

SPI sediment profiling imaging

SQ Semiguantitative

SRB sulfate-reducing bacteria

SVE soil vapor extraction

SVOC semivolatile organic compound

TBA tert-butyl alcohol, an oxygenate

TBEE tert-butyl-ethyl ether, an oxygenate

TBT tributyltin

TCA trichloroethane

TCD thermal conductivity detector

TCE trichloroethylene

TCE trichloroethene

tceA trichloroethene reductive dehalogenase

gene

TCFE Trichlorofluoroethylene

TCH Thermal conductance heating

TCLP Toxicity Characteristic Leaching Procedure

TMB trimethylbenzene

TMO Toluene monooxygenase

TNT 2,4,6-trinitrotoluene

TOC total organic carbon

TOD Toluene 2,3-dixoygenase

TPH total petroleum hydrocarbons

TSCA Toxic Substances Control Act

TSS total suspended solids

TVOC total volatile organic compounds

ug Micrograms

USDOE U.S. Department of Energy

USEPA United States Environmental Protection Agency

USGS United States Geological Survey

UST underground storage tank

VC Vinyl Chloride

vcrA Vinyl chloride reductase (varietal A), a reductive dehalogenase gene

VFAs Volatile Fatty Acids

VI vapor intrusion

VOC volatile organic compound

Zn Zinc

ZVI zero-valent iron

μg/m³ microgram per cubic meter