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## MASTER ACRONYM AND ABBREVIATION LIST

%	Percent
°C	Degree Celsius
°F	Degrees Fahrenheit
µg	Micrograms
µg/g	Micrograms per Gram
µg/kg	Micrograms per kilogram
µg/L	Microgram per Liter
µg/m <sup>3</sup>	Micrograms per cubic meter
µm	Micrometers (micron)
≤	Less than or equal to
2,4,5-T	2,4,5-trichlorophenoxyacetic acid
2,4,5-TP	2,4,5-trichlorophenoxypropionic acid
2,4-D	Dichlorophenoxyacetic Acid
A	Hold time after extraction until analysis
AMAP	Applicable Monitoring and Assessment Plan
ANZECC	Australian/New Zealand Environment and Conservation Council
APHA	American Public Health Association
API	American Petroleum Institute
ARAR	Applicable or relevant and appropriate requirements
ARMCANZ	Agriculture and Resource Management Council of Australia and New Zealand

ASTM	American Society for Testing and Materials
atm-m <sup>3</sup> /Mol	Moles per cubic meter for air to moles per cubic meter for water
ATSDR	Agency for Toxic Substances and Disease Registry
AVS/SEM	Acid-volatile Sulfide and Simultaneously Extracted Metals
BERA	Baseline Ecological Risk Assessment
BGS	Below ground surface
BSAF	Biota-to-Sediment Accumulation Factor
BTEX	Benzene, toluene, ethylbenzene, and total xylenes
CAB	Clean Air Branch
CAD	Computer-Aided Design
CalEPA	California Environmental Protection Agency
CAO	Compliance Assistance Office
CAS	Chemical Abstract Service
CBR	Critical Body Residue
CCME	Canadian Council of Ministers of the Environment
CD	Compact-disc
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act (also known as the Federal Superfund Law)
CFR	Code of Federal Regulations
cm	Centimeters
cm <sup>3</sup> /g	cubic centimeters per gram
CO	Carbon Monoxide
CO <sub>2</sub>	Carbon Dioxide
COC	Chain-of-custody
COC	Contaminant of concern
COPC	Chemicals (or Contaminants) of Potential Concern
COPEC	Contaminant of Potential Environmental Concern

CPT	Cone Penetrometer Technologies
CSM	Conceptual Site Model
CSV	Comma separated values
CWA	Clean Water Act
CWB	Clean Water Branch
D	Discrete
D-D	A mixture of 1,2-dichloropropane; 1,3-dichloropropene; and 2,3-dichloropropene
DBCP	1,2-dibromo-3-chloropropane
DCE	Dichloroethene
DDT	dichloro-diphenyl-trichloroethane
Dioxins	Polychlorinated dibenzodioxins
DNAPL	Dense Non-Aqueous Phase Liquid
DoD	United States Department of Defense
DOT	U.S. Department of Transportation
DPE	Dual-phase extraction
DPT	Direct Push Technologies
DQA	Data Quality Assessment
DQO	Data Quality Objective
Draft RAM	Draft Response Action Memorandum
DSITMS	Direct Sampling Ion Trap Mass Spectrometry
DSMOA	DoD State Memorandum of Agreement
DTSC	Department of Toxic Substances Control
DU	Decision Unit
DVD	Digital video disk
E	Hold time to extraction
EAL	Environmental Action Level

EDB	1,2-dibromoethane
EHE	Environmental Hazard Evaluation
EHMP	Environmental Hazard Management Plan
EHSD	Environmental Health Services Division
EM	Electromagnetics
EMD	Environmental Management Division
EP&R	HEER Office Emergency Preparedness and Response Section
EPCRA	Emergency Planning and Community Right-to-know Act
EPDM	Ethylene propylene diene monomer
EPO	Environmental Planning Office
ER-L	Effects Range-Low
ER-M	Effects Range-Median
ERA	Ecological Risk Assessment
ERO	Environmental Resources Office
ESA	Endangered Species Act
ESA	Environmental Site Assessment
eV	Electron Volt
FFDs	Fuel Fluorescence Detectors
FID	Flame Ionization Detector
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
Final RAM	Final Response Action Memorandum
FRTR	Federal Remediation Technologies Roundtable
ft	Feet
ft <sup>2</sup>	Square feet
FTC	Fast Track Cleanup
FTP	File Transfer Protocol

Furans	Polychlorinated dibenzofurans
FWS	Fish and Wildlife Service
g	Gram(s)
GAC	Granulated activated carbon
GC	Gas Chromatograph
GC/MS	Gas Chromatography-Mass Spectrometry
GIS	Geographical Information System
GPR	Ground Penetrating Radar
GPS	Global Positioning Satellite
HAR	Hawai'i Administrative Rules
HASP	Health and Safety Plan
Hawai'i SCP	Hawai'i State Contingency Plan (HAR, Title 11, Chapter 451)
HAZWOPER	Hazardous Waste Operations and Emergency Response
HCIF	Hawai'i Chemical Inventory Form
HCl	Hydrochloric acid
HDLNR	Hawai'i Department of Land and Natural Resources
HDOA	Hawai'i Department of Agriculture
HDOH	Hawai'i Department of Health
HDPE	High density polyethylene
HDX	Octahydro-1,3,5,7-Tetranitro-1,3,5,7-Tetrazocine
HEER Office	Hazard Evaluation and Emergency Response Office
HEPCRA	Hawai'i Emergency Planning and Community Right-to-Know Act (HRS, Chapter 128E)
HERL	Hawai'i Environmental Response Law (HRS, Chapter 128D)
HHRA	Human Health Risk Assessment
HIOSH	Hawai'i Occupational Safety and Health
HMW	High Molecular Weight

HMX	Octogen (nitroamine explosive)
HNO <sub>3</sub>	Nitric acid
HOCC	Hawai'i One Call Center
HQ	Hazard Quotient
HRS	Hawai'i Revised Statutes
HSA	Hollow-Stem Auger
HSERC	Hawai'i State Emergency Response Commission
HTTD	High-temperature thermal desorption
HVAC	Heating, Ventilating and Air Conditioning
HVOCs	Halogenated Volatile Organic Compounds
ID	Identity
IDW	Investigation-Derived Waste
IEQ	Indoor Environmental Quality
IEUBK	Integrated Exposure Uptake Biokinetic Model for Lead in Children
in Hg	Inches of Mercury
IRIS	Integrated Risk Information System
ISQG	Interim Sediment Quality Guideline
ITRC	Interstate Technology and Regulatory Council
K	Kelvins (the Kelvin scale is a thermodynamic temperature scale)
kg	kilogram
km	kilometer
Koc	organic carbon sorption coefficient
L	Liter
lb	Pound(s)
LCS	Laboratory control sample
LCSD	Laboratory control sample duplicate

LEL	Lower Explosive Limit
LEPC	Local Emergency Planning Committees
LIF	Laser-Induced Fluorescence
LIMS	Laboratory Information Management System
LMW	Low Molecular Weight
LNAPL	Light Non Aqueous Phase Liquid
LOAEL	Lowest Observed Adverse Effect Level
LOC	Letter of Completion
LTTD	Low-temperature thermal desorption
LUCIP	Land Use Controls Implementation Plan
LUCs	Land Use Controls
LVP	Large Volume Purge
m <sup>3</sup> /mol	cubic meters per mole
MADEP	Massachusetts Department of Environmental Protection
MC	Munitions Contaminants
MCS	Modified California Sampler
MDL	Method Detection Limit
MDNR	Missouri Department of Natural Resources
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m <sup>3</sup>	Milligrams per cubic meter
MGP	Manufactured gas plants
MHI	Main Hawaiian Islands
MI	Multi Increment
MIBK	Methyl isobutyl ketone
MIP	Membrane Interface Probe

MIS	Multi Increment sample(s)
mL	Milliliter
MLE	Maximum Likelihood Estimation
mm	Millimeter
mm Hg	Millimeters of mercury
MOU	Memorandum of Understanding
MPE	Multi-phase extraction
MRBCA	Missouri Risk-Based Corrective Action
MS	Mass Spectrometer
MSD	Matrix spike duplicate
MSMA	monosodium methane arsenate
MTBE	Methyl tertiary butyl ether
MW	Molecular Weight
Na <sub>2</sub> SO <sub>4</sub>	Sodium bisulfate
NAD83	North American Datum 1983
NaOH	Sodium hydroxide
NAPL	Non Aqueous Phase Liquid
NaS <sub>2</sub> O <sub>3</sub>	Sodium thiosulfate
NAVFAC	Naval Facilities Engineering Command
NCEA	USEPA National Center for Environmental Assessment
NCP	National Contingency Plan
NEIWPPCC	New England Interstate Water Pollution Control Commission
NELAC	National Environmental Laboratory Accreditation Conference
NFA	No Further Action
NIOSH	National Institute for Occupational Safety and Health
NJDEP	New Jersey Department of Environmental Protection



NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOAEL	No Observed Adverse Effect Level
NPL	National Priorities List
NRC	National Response Center
NRDA	Natural resource damage assessment
NTP	National Toxicology Program
NTU	Nephelometric turbidity units
NVOC	Non-volatile organic compounds
NWHI	Northwest Hawaiian Islands
NYDOH	New York Department of Health
O&M	Operation and maintenance
OC	Organic Carbon
OEQC	HDOH Office of Environmental Quality Control
OEQC	Office of Environmental Quality Control
OEQC	HDOH Office of Environmental Quality Control
One atmosphere	760 millimeters of mercury
OPA	Oil Pollution Act of 1990
OSHA	Occupational Safety and Health Administration
OSWER	Office of Solid Waste and Emergency Response
PAH	Polynuclear Aromatic Hydrocarbon
PARCC	Precision, accuracy, representativeness, completeness, and comparability
PCB	Polychlorinated Biphenyl
PCDDs/PCDFs	Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans
PCE	Tetrachloroethylene
PCP	Pentachlorophenol

PDBE	Polybrominated Diphenyl Ether
PDBS	Polyethylene diffusion bag sampler
PDS	Polyethylene diffusion bag samplers
PDF	Portable Document Format
PID	Photo Ionization Detector
POC	Purgeable organic compounds
POCIS	Polar organic chemical integrative samplers
POX	Purgeable organic halogens
ppb	Parts per billion
ppbv	Parts per billion by volume
PPE	Personal Protective Equipment
ppm	Parts per million
ppmv	Parts per Million by Volume
PQL	Practical Quantitation Limit
PRGs	Preliminary Remedial Goals
PRP	Potentially Responsible Party
PTFE	Polytetrafluoroethylene
PUC	Public Utilities Commission
PVC	Polyvinyl chloride
QA	Quality Assurance
QA/QC	Quality Assurance and Quality Control
QAPP	Quality Assurance Project Plan
QAPP	Quality Assurance Project Plan
QC	Quality Control
RAA	Remedial alternatives analysis
RAM	Response Action Memorandum

RAR	Removal Action Report
RCRA	Resource Conservation and Recovery Act
RDX	Hexahydro-1,2,5-Trinitro-1,3,5-Triazine
redox	Reduction/oxidation
RFH	Radio frequency heating
RFI	RCRA (Resource Conservation and Recovery Act) Facility Investigation
RI	Remedial Investigation
RL	Reporting Limit
RME	Reasonable maximum exposure
ROST™	Rapid Optical Screen Tool
RPD	Relative percent difference
RPM	Remedial Project Manager
RPPS	Rigid porous polyethylene samplers
RSD	Relative standard deviation
RSL	Regional Screening Level
RWQCB	Regional Water Quality Control Board
SAP	Sampling and Analysis Plan
SBRC	Solubility Bioaccessibility Research Consortium
SCP	Hawai'i State Contingency Plan
SD	Standard deviation
SDAR	HEER Office Site Discovery, Assessment and Remediation Section
SDWA	Safe Drinking Water Act
SDWB	Safe Drinking Water Branch
SHWB	HDOH Solid and Hazardous Waste Branch
SIM	Selected ion mode
SLERA	Screening Level Ecological Risk Assessment

SOP	Standard Operating Procedure
SOSC	State On-Scene Coordinator
SPLP	Synthetic Precipitation Leaching Procedure
SPSH	Six-phase soil heating
SPT	Standard Penetrometer Test
SQG	Sediment Quality Guideline
SSCS	Site Specific Calibration Standard(s)
SSD	Subslab depressurization
SUF	Site Use Factor
SVE	Soil vapor extraction
SVOC	Semi-volatile organic compound
SW-846	USEPA publication entitled Test Methods for Evaluating Solid Waste, Physical/Chemical Methods
TBC	To-Be-Considered
TBT	Tributyltin
TCA	Trichlorethane
TCDD	Tetrachlorodibenzo-p-dioxin
TCE	Trichloroethylene
TCLP	Toxicity characteristic leaching procedure
TCP	1,2,3-trichloropropane
TEF	Toxicity Equivalence Factor
Telone	1,3-dichloropropene
TEQ	Toxic Equivalency
TGM	Technical Guidance Manual
THMs	Trihalomethanes
TMK	Tax Map Key
TNT	2,4,6-Trinitrotoluene

TOC	Total Organic Carbon
TOX	Total Organic Halogens
TPH	Total Petroleum Hydrocarbons
TPH-D	Total Petroleum Hydrocarbons-diesel range
TPH-G	Total Petroleum Hydrocarbons-gasoline range
TPH-O	Total Petroleum Hydrocarbons-oil range
TRV	Toxicity Reference Value
TSA	Transportation Security Administration
TSCA	Toxic Substances Control Act
TSD	Treatment, storage, and disposal
TVH	Total Volatile Hydrocarbons
TVH	Total Volatile Hydrocarbons
TWG	Technical Working Group
U.S.	United States
UCL	Upper Confidence Level
UCL <sub>95</sub>	95 percent upper confidence limit on the mean concentration
UECA	Uniform Environmental Covenants Act (HRS, Chapter 508C)
UIPA	Uniform Information Practices Act
US Army	United States Department of the Army
US Navy	United States Department of the Navy
USACE	United States Army Corps of Engineers
USAFCEE	U.S. Air Force Center for Environmental Excellence
USCS	Unified Soil Classification System
USDA	United States Department of Agriculture
USDA-NRCS	United States Department of Agriculture, Natural Resources Conservation Service
USEPA	United States Environmental Protection Agency

USGS	United States Geological Survey
USNFESC	U.S. Naval Facilities Engineering Service Center
UST	Underground Storage Tank
UTM	Universal Transverse Mercator
UV	Ultra Violet
VOA	Volatile organic analysis
VOC	Volatile Organic Compound
VRP	HEER Office Voluntary Response Program
VSP	Visual Sample Plan
WHO	World Health Organization
WWB	Wastewater Branch
XRF	X-Ray Fluorescence
yd <sup>3</sup>	Cubic Yard