

ATTACHMENT 1
LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

2,4-D	2,4-dichlorophenoxyacetic acid	BTV	background threshold value	DEH	Directorate of Engineering and Housing
2,4,5-T	2,4,5-trichlorophenoxyacetic acid	BW	biological warfare	DEP	depositional soil
2,4,5-TP	silvex	BZ	breathing zone; 3-quinuclidinyl benzilate	DI	deionized
3D	3D International Environmental Group	C	ceiling limit value	DIMP	di-isopropylmethylphosphonate
Abs	skin absorption	Ca	carcinogen	DMMP	dimethylmethylphosphonate
Amsl	above mean sea level	CAB	chemical warfare agent breakdown products	DOD	U.S. Department of Defense
AC	hydrogen cyanide	CAMU	corrective action management unit	DOJ	U.S. Department of Justice
AcB2	Anniston and Allen gravelly loams, 2 to 6 percent slopes, eroded	CCAL	continuing calibration	DOT	U.S. Department of Transportation
AcC2	Anniston and Allen gravelly loams, 6 to 10 percent slopes, eroded	CCB	continuing calibration blank	DP	direct-push
AcD2	Anniston and Allen gravelly loams, 10 to 15 percent slopes, eroded	CD	compact disc	DPDO	Defense Property Disposal Office
AcE2	Anniston and Allen gravelly loams, 15 to 25 percent slopes, eroded	CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	DPT	direct-push technology
ACGIH	American Conference of Governmental Industrial Hygienists	CERFA	Community Environmental Response Facilitation Act	DQO	data quality objective
ADEM	Alabama Department of Environmental Management	CESAS	Corps of Engineers South Atlantic Savannah	DRMO	Defense Reutilization and Marketing Office
AEC	U.S. Army Environmental Center	CG	carbonyl chloride (phosgene)	DRO	diesel range organics
AEL	airborne exposure limit	CFC	chlorofluorocarbon	DS	deep (subsurface) soil
AHA	ammunition holding area	ch	inorganic clays of high plasticity	DS2	Decontamination Solution Number 2
AL	Alabama	CHPPM	U.S. Army Center for Health Promotion and Preventive Medicine	DWEL	drinking water equivalent level
amb.	amber	CK	cyanogen chloride	E&E	Ecology and Environment, Inc.
ANAD	Anniston Army Depot	cl	inorganic clays of low to medium plasticity	EBS	environmental baseline survey
AOC	area of concern	Cl.	chlorinated	EE/CA	engineering evaluation and cost analysis
APT	armor-piercing tracer	CLP	Contract Laboratory Program	Elev.	elevation
ARAR	applicable or relevant and appropriate requirement	CN	chloroacetophenone	EM	electromagnetic
AREE	area requiring environmental evaluation	CNB	chloroacetophenone, benzene, and carbon tetrachloride	EM31	Geonics Limited EM31 Terrain Conductivity Meter
ASP	Ammunition Supply Point	CNS	chloroacetophenone, chloropicrin, and chloroform	EM61	Geonics Limited EM61 High-Resolution Metal Detector
ASR	Archives Search Report	Co-60	cobalt-60	EOD	explosive ordnance disposal
AST	aboveground storage tank	COC	chain of custody; contaminant of concern	EODT	explosive ordnance disposal team
ASTM	American Society for Testing and Materials	COE	Corps of Engineers	EPA	U.S. Environmental Protection Agency
ATV	all-terrain vehicle	Con	skin or eye contact	EPC	exposure point concentration
AWWSB	Anniston Water Works and Sewer Board	COPC	contaminant of potential concern	EPIC	Environmental Photographic Interpretation Center
'B'	Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero)	COPEC	contaminant of potential environmental concern	ER	equipment rinsate
BCF	blank correction factor	CRL	certified reporting limit	ESE	Environmental Science and Engineering, Inc.
BCT	BRAC Cleanup Team	CRZ	contamination reduction zone	ESN	Environmental Services Network, Inc.
BEHP	bis(2-ethylhexyl)phthalate	Cs-137	cesium-137	ESV	ecological screening value
BFB	bromofluorobenzene	CS	ortho-chlorobenzylidene-malononitrile	Exp.	explosives
BFE	base flood elevation	CSEM	conceptual site exposure model	E-W	east to west
BG	Bacillus globigii	ctr.	container	EZ	exclusion zone
bgs	below ground surface	CWA	chemical warfare agent	FAR	Federal Acquisition Regulations
BHC	betahexachlorocyclohexane	CWM	chemical warfare material; clear, wide mouth	FB	field blank
bkg	background	CX	dichloroformoxime	FD	field duplicate
bls	below land surface	'D'	duplicate; dilution	FedEx	Federal Express, Inc.
BOD	biological oxygen demand	DAF	dilution-attenuation factor	FEMA	Federal Emergency Management Agency
BRAC	Base Realignment and Closure	DANC	decontamination agent, non-corrosive	FFE	field flame expedient
Braun	Braun Intertec Corporation	°C	degrees Celsius	Fil	filtered
BSC	background screening criterion	°F	degrees Fahrenheit	Flt	filtered
BTAG	Biological Technical Assistance Group	DCE	dichloroethene	FML	flexible membrane liner
BTEX	benzene, toluene, ethyl benzene, and xylenes	DDD	dichlorodiphenyldichloroethane	FMP 1300	Former Motor Pool 1300
BTOC	below top of casing	DDE	dichlorodiphenyldichloroethane	FOMRA	Former Ordnance Motor Repair Area
		DDT	dichlorodiphenyltrichloroethane	Foster Wheeler	Foster Wheeler Environmental Corporation

List of Abbreviations and Acronyms (Continued)

Frtn	fraction	ID	inside diameter	MINICAMS	miniature continuous air sampling system
FS	field split; feasibility study	IDL	instrument detection limit	ml	inorganic silts and very fine sands
FSP	field sampling plan	IDLH	immediately dangerous to life or health	mL	milliliter
ft	feet	IDM	investigative-derived media	mm	millimeter
ft/ft	feet per foot	IDW	investigation-derived waste	MM	mounded material
FTA	Fire Training Area	ILCR	incremental lifetime cancer risk	MOGAS	motor vehicle gasoline
FTMC	Fort McClellan	IMPA	isopropylmethyl phosphonic acid	MPA	methyl phosphonic acid
FTRRA	FTMC Reuse & Redevelopment Authority	IMR	Iron Mountain Road	MR	molasses residue
g	gram	in.	inch	MS	matrix spike
G-856	Geometrics, Inc. G-856 magnetometer	Ing	ingestion	mS/cm	millisiemens per centimeter
G-858G	Geometrics, Inc. G-858G magnetic gradiometer	Inh	inhalation	MSD	matrix spike duplicate
gal	gallon	IP	ionization potential	MTBE	methyl tertiary butyl ether
gal/min	gallons per minute	IPS	International Pipe Standard	msl	mean sea level
GB	sarin	IRDMIS	Installation Restoration Data Management Information System	MtD3	Montevallo shaly, silty clay loam, 10 to 40 percent slopes , severely eroded
gc	clay gravels; gravel-sand-clay mixtures	ISCP	Installation Spill Contingency Plan	mV	millivolts
GC	gas chromatograph	IT	IT Corporation	MW	monitoring well
GC/MS	gas chromatograph/mass spectrometer	ITEMS	IT Environmental Management System™	NA	not applicable; not available
GCR	geosynthetic clay liner	'J'	estimated concentration	NAD	North American Datum
GFAA	graphite furnace atomic absorption	JeB2	Jefferson gravelly fine sandy loam, 2 to 6 percent slopes, eroded	NAD83	North American Datum of 1983
GIS	Geographic Information System	JeC2	Jefferson gravelly fine sandy loam, 6 to 10 percent slopes, eroded	NAVD88	North American Vertical Datum of 1988
gm	silty gravels; gravel-sand-silt mixtures	JfB	Jefferson stony fine sandy loam, 0 to 10 percent slopes have strong slopes	NCP	National Contingency Plan
gp	poorly graded gravels; gravel-sand mixtures	JPA	Joint Powers Authority	ND	not detected
gpm	gallons per minute	K	conductivity	NE	no evidence; northeast
GPR	ground-penetrating radar	L	lewisite; liter	ne	not evaluated
GPS	global positioning system	LC ₅₀	lethal concentration for 50 percent of population tested	NFA	No Further Action
GS	ground scar	LD ₅₀	lethal dose for 50 percent of population tested	ng/L	nanograms per liter
GSA	General Services Administration; Geologic Survey of Alabama	l	liter	NGVD	National Geodetic Vertical Datum
GSBP	Ground Scar Boiler Plant	LCS	laboratory control sample	NIC	notice of intended change
GSSI	Geophysical Survey Systems, Inc.	LEL	lower explosive limit	NIOSH	National Institute for Occupational Safety and Health
GST	ground stain	LOAEL	lowest-observed-adverse-effects-level	NPDES	National Pollutant Discharge Elimination System
GW	groundwater	LT	less than the certified reporting limit	No.	number
gw	well-graded gravels; gravel-sand mixtures	LUC	land-use control	NOAA	National Oceanic and Atmospheric Administration
HA	hand auger	LUCAP	land-use control assurance plan	NOAEL	no-observed-adverse-effects-level
HCl	hydrochloric acid	LUCIP	land-use control implementation plan	NR	not requested; not recorded
HD	distilled mustard	max	maximum	ns	nanosecond
HDPE	high-density polyethylene	MCL	maximum contaminant level	N-S	north to south
Herb.	herbicides	MDC	maximum detected concentration	NS	not surveyed
HNO ₃	nitric acid	MDL	method detection limit	nT	nanotesla
hr	hour	mg/kg	milligrams per kilogram	NTU	nephelometric turbidity unit
H&S	health and safety	mg/L	milligrams per liter	nv	not validated
HSA	hollow-stem auger	mg/m ³	milligrams per cubic meter	O&G	oil and grease
HTRW	hazardous, toxic, and radioactive waste	mh	inorganic silts, micaceous or diatomaceous fine, sandy or silt soils	O&M	operating and maintenance
'I'	out of control, data rejected due to low recovery	MHz	megahertz	OD	outside diameter
ICAL	initial calibration	µg/g	micrograms per gram	OE	ordnance and explosives
ICB	initial calibration blank	µg/kg	micrograms per kilogram	oh	organic clays of medium to high plasticity
ICP	inductively-coupled plasma	µg/L	micrograms per liter	ol	organic silts and organic silty clays of low plasticity
ICRP	International Commission on Radiological Protection	µmhos/cm	micromhos per centimeter	OP	organophosphorus
ICS	interference check sample	min	minimum	ORP	oxidation-reduction potential

List of Abbreviations and Acronyms (Continued)

OSHA	Occupational Safety and Health Administration	RPD	relative percent difference	TB	trip blank
OWS	oil/water separator	RRF	relative response factor	TCA	trichloroethane
oz	ounce	RSD	relative standard deviation	TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
PA	preliminary assessment	RTK	real-time kinematic	TCDF	tetrachlorodibenzofurans
PAH	polynuclear aromatic hydrocarbon	SAD	South Atlantic Division	TCE	trichloroethene
Parsons	Parsons Engineering Science, Inc.	SAE	Society of Automotive Engineers	TCL	target compound list
Pb	lead	SAIC	Science Applications International Corporation	TCLP	toxicity characteristic leaching procedure
PCB	polychlorinated biphenyl	SAP	installation-wide sampling and analysis plan	TDGCL	thiodiglycol
PCE	perchloroethene	sc	clayey sands; sand-clay mixtures	TDGCLA	thiodiglycol chloroacetic acid
PCP	pentachlorophenol	Sch.	schedule	TERC	Total Environmental Restoration Contract
PDS	Personnel Decontamination Station	SD	sediment	TIC	tentatively identified compound
PEL	permissible exposure limit	SDG	sample delivery group	TLV	threshold limit value
Pest.	pesticides	SDZ	safe distance zone; surface danger zone	TN	Tennessee
PFT	portable flamethrower	SEMS	Southern Environmental Management & Specialties, Inc.	TOC	top of casing; total organic carbon
PG	professional geologist	SFSP	site-specific field sampling plan	TPH	total petroleum hydrocarbons
PID	photoionization detector	SGF	standard grade fuels	TRADOC	U.S. Army Training and Doctrine Command
PkA	Philo and Stendal soils local alluvium, 0 to 2 percent slopes	SHP	installation-wide safety and health plan	TRPH	total recoverable petroleum hydrocarbons
POL	petroleum, oils, and lubricants	SI	site investigation	TWA	time-weighted average
PP	peristaltic pump	SL	standing liquid	UCL	upper confidence limit
ppb	parts per billion	SLERA	screening-level ecological risk assessment	UCR	upper certified range
PPE	personal protective equipment	sm	silty sands; sand-silt mixtures	'U'	not detected above reporting limit
ppm	parts per million	SM	Serratia marcescens	USACE	U.S. Army Corps of Engineers
PPMP	Print Plant Motor Pool	SOP	standard operating procedure	USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
ppt	parts per thousand	sp	poorly graded sands; gravelly sands	USAEC	U.S. Army Environmental Center
PRG	preliminary remediation goal	SP	submersible pump	USAEHA	U.S. Army Environmental Hygiene Agency
PSSC	potential site-specific chemical	Sr-90	strontium-90	USACMLS	U.S. Army Chemical School
pt	peat or other highly organic silts	SRA	streamlined human health risk assessment	USAMPS	U.S. Army Military Police School
PVC	polyvinyl chloride	Ss	stony rough land, sandstone series	USATEU	U.S. Army Technical Escort Unit
QA	quality assurance	SS	surface soil	USATHAMA	U.S. Army Toxic and Hazardous Material Agency
QA/QC	quality assurance/quality control	SSC	site-specific chemical	USCS	Unified Soil Classification System
QAP	installation-wide quality assurance plan	SSHO	site safety and health officer	USDA	U.S. Department of Agriculture
QC	quality control	SSHP	site-specific safety and health plan	USEPA	U.S. Environmental Protection Agency
QST	QST Environmental, Inc.	SSL	soil screening level	USGS	U.S. Geological Survey
qty	quantity	SSSL	site-specific screening level	UST	underground storage tank
Qual	qualifier	SSSSL	site-specific soil screening level	UTL	upper tolerance level
'R'	rejected data; resample	STB	supertropical bleach	UXO	unexploded ordnance
RAO	removal action objective	STC	source term concentrations	VOA	volatile organic analyte
RBC	risk-based concentration	STEL	short-term exposure limit	VOC	volatile organic compound
RCRA	Resource Conservation and Recovery Act	STOLS	Surface Towed Ordnance Locator System®	VOH	volatile organic hydrocarbon
RDX	cyclonite	Std. units	standard units	VQlfr	validation qualifier
RfD	reference dose	SU	standard unit	VQual	validation qualifier
ReB3	Rarden silty clay loams	SVOC	semivolatile organic compound	VX	nerve agent (O-ethyl-S-[diisopropylaminoethyl]-methylphosphonothiolate)
REG	regular field sample	SW	surface water	Weston	Roy F. Weston, Inc.
REL	recommended exposure limit	SW-846	U.S. EPA's <i>Test Methods for Evaluating Solid Waste: Physical/Chemical Methods</i>	WP	installation-wide work plan
RFA	request for analysis	SWPP	storm water pollution prevention plan	WS	watershed
RGO	remedial goal option	SZ	support zone	WSA	Watershed Screening Assessment
RI	remedial investigation	TAL	target analyte list	WWI	World War I
RL	reporting limit	TAT	turn around time	WWII	World War II

List of Abbreviations and Acronyms (Continued)

XRF x-ray fluorescence
yd³ cubic yards

SAIC – Data Qualifiers, Codes and Footnotes, 1995 Remedial Investigation

N/A – Not analyzed

ND – Not detected

Boolean Codes

LT – Less than the certified reporting limit

Flagging Codes

9 – Non-demonstrated/validated method performed for USAEC

B – Analyte found in the method blank or QC blank

C – Analysis was confirmed

D – Duplicate analysis

I – Interfaces in sample make quantitation and/or identification to be suspicious

J – Value is estimated

K – Reported results are affected by interfaces or high background

N – Tentatively identified compound (match greater than 70%)

Q – Sample interference obscured peak of interest

R – Non-target compound analyzed for but not detected (GC/MS methods)

S – Non-target compound analyzed for and detected (GC/MS methods)

T – Non-target compound analyzed for but not detected (non GC/MS methods)

U – Analysis in unconfirmed

Z – Non-target compound analyzed for and detected (non-GC/MS methods)

Qualifiers

J – The low-spike recovery is low

N – The high-spike recovery is low

R – Data is rejected