

ATTACHMENT 1

LIST OF ABBREVIATIONS AND ACRONYMS

List of Abbreviations and Acronyms

2,4-D	2,4-dichlorophenoxyacetic acid	CERFA	Community Environmental Response Facilitation Act	DRO	diesel range organics
2,4,5-T	2,4,5-trichlorophenoxyacetic acid	CESAS	Corps of Engineers South Atlantic Savannah	DS	deep (subsurface) soil
2,4,5-TP	silvex	CG	carbonyl chloride (phosgene)	DS2	Decontamination Solution Number 2
3D	3D International Environmental Group	CFC	chlorofluorocarbon	DWEL	drinking water equivalent level
Abs	skin absorption	ch	inorganic clays of high plasticity	E&E	Ecology and Environment, Inc.
AC	hydrogen cyanide	CHPPM	U.S. Army Center for Health Promotion and Preventive Medicine	EBS	environmental baseline survey
AcB2	Anniston and Allen gravelly loams, 2 to 6 percent slopes, eroded	CK	cyanogen chloride	EE/CA	engineering evaluation and cost analysis
AcC2	Anniston and Allen gravelly loams, 6 to 10 percent slopes, eroded	cl	inorganic clays of low to medium plasticity	Elev.	elevation
AcD2	Anniston and Allen gravelly loams, 10 to 15 percent slopes, eroded	Cl.	chlorinated	EM	electromagnetic
AcE2	Anniston and Allen gravelly loams, 15 to 25 percent slopes, eroded	CLP	Contract Laboratory Program	EM31	Geonics Limited EM31 Terrain Conductivity Meter
ACGIH	American Conference of Governmental Industrial Hygienists	CN	chloroacetophenone	EM61	Geonics Limited EM61 High-Resolution Metal Detector
ADEM	Alabama Department of Environmental Management	CNB	chloroacetophenone, benzene, and carbon tetrachloride	EOD	explosive ordnance disposal
AEL	airborne exposure limit	CNS	chloroacetophenone, chloropicrin, and chloroform	EODT	explosive ordnance disposal team
AHA	ammunition holding area	Co-60	cobalt-60	EPA	U.S. Environmental Protection Agency
AL	Alabama	COC	chain of custody; contaminant of concern	EPC	exposure point concentration
amb.	amber	COE	Corps of Engineers	EPIC	Environmental Photographic Interpretation Center
ANAD	Anniston Army Depot	Con	skin or eye contact	ER	equipment rinsate
APT	armor-piercing tracer	COPC	contaminant of potential concern	ESE	Environmental Science and Engineering, Inc.
ARAR	applicable or relevant and appropriate requirement	COPEC	contaminant of potential environmental concern	ESV	ecological screening value
ASP	ammunition supply point	CRL	certified reporting limit	Exp.	explosives
ASR	Archives Search Report	CRZ	contamination reduction zone	E-W	east to west
AST	aboveground storage tank	Cs-137	cesium-137	EZ	exclusion zone
ASTM	American Society for Testing and Materials	CS	ortho-chlorobenzylidene-malononitrile	FAR	Federal Acquisition Regulations
AWWSB	Anniston Water Works and Sewer Board	CSEM	conceptual site exposure model	FB	field blank
‘B’	Analyte detected in laboratory or field blank at concentration greater than the reporting limit (and greater than zero)	ctr.	container	FD	field duplicate
BCT	BRAC Cleanup Team	CWA	chemical warfare agent	FedEx	Federal Express, Inc.
BEHP	bis(2-ethylhexyl)phthalate	CWM	chemical warfare material; clear, wide mouth	FFE	field flame expedient
BFB	bromofluorobenzene	CX	dichloroformoxime	Fil	filtered
BG	Bacillus globigii	D	duplicate; dilution	Flt	filtered
bgs	below ground surface	DANC	decontamination agent, non-corrosive	FMP 1300	Former Motor Pool 1300
BHC	betahexachlorocyclohexane	°C	degrees Celsius	Foster Wheeler	Foster Wheeler Environmental Corporation
bkg	background	°F	degrees Fahrenheit	Frtn	fraction
bls	below land surface	DCE	dichloroethene	FS	field split; feasibility study
BOD	biological oxygen demand	DDD	dichlorodiphenyldichloroethane	ft	feet
BRAC	Base Realignment and Closure	DDE	dichlorodiphenyldichloroethene	ft/ft	feet per foot
Braun	Braun Intertec Corporation	DDT	dichlorodiphenyltrichloroethane	FTA	Fire Training Area
BTAG	Biological Technical Assistance Group	DEH	Directorate of Engineering and Housing	FTMC	Fort McClellan
BTEX	benzene, toluene, ethyl benzene, and xylenes	DEP	depositional soil	g	gram
BTOC	below top of casing	DI	deionized	G-856	Geometrics, Inc. G-856 magnetometer
BW	biological warfare	DIMP	di-isopropylmethylphosphonate	G-858G	Geometrics, Inc. G-858G magnetic gradiometer
BZ	breathing zone; 3-quinuclidinyl benzilate	DMMP	dimethylmethylphosphonate	gal	gallon
C	ceiling limit value	DOD	U.S. Department of Defense	gal/min	gallons per minute
Ca	carcinogen	DOT	Department of Transportation	GB	sarin
CCAL	continuing calibration	DP	direct-push	gc	clay gravels; gravel-sand-clay mixtures
CCB	continuing calibration blank	DPDO	Defense Property Disposal Office	GC	gas chromatograph
CD	compact disc	DPT	direct-push technology	GC/MS	gas chromatograph/mass spectrometer
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	DQO	data quality objective	GFAA	graphite furnace atomic absorption
		DRMO	Defense Reutilization and Marketing Office	GIS	Graphical Information System

List of Abbreviations and Acronyms *(Continued)*

gm	silty gravels; gravel-sand-silt mixtures	L	lewisite; liter	NIOSH	National Institute for Occupational Safety and Health
gp	poorly graded gravels; gravel-sand mixtures	LC ₅₀	lethal concentration for 50 percent of population tested	No.	number
gpm	gallons per minute	LD ₅₀	lethal dose for 50 percent of population tested	NOAA	National Oceanic and Atmospheric Administration
GPR	ground-penetrating radar	l	liter	NOAEL	no-observed-adverse-effects-level
GPS	global positioning system	LCS	laboratory control sample	NR	not requested; not recorded
GS	ground scar	LEL	lower explosive limit	ns	nanosecond
GSA	General Services Administration	LOAEL	lowest-observed-advserse-effects-level	N-S	north to south
GSBP	Ground Scar Boiler Plant	LT	less than the certified reporting limit	NS	not surveyed
GSSI	Geophysical Survey Systems, Inc.	max	maximum	nT	nanotesla
GST	ground stain	MCL	maximum contaminant level	NTU	nephelometric turbidity unit
GW	groundwater	MDL	method detection limit	O&G	oil and grease
gw	well-graded gravels; gravel-sand mixtures	mg/kg	milligrams per kilogram	OD	outside diameter
HA	hand auger	mg/L	milligrams per liter	OE	ordnance and explosives
HCl	hydrochloric acid	mg/m ³	milligrams per cubic meter	oh	organic clays of medium to high plasticity
HD	distilled mustard	mh	inorganic silts, micaceous or diatomaceous fine, sandy or silt soils	ol	organic silts and organic silty clays of low plasticity
HDPE	high-density polyethylene	MHz	megahertz	OP	organophosphorus
Herb.	herbicides	µg/g	micrograms per gram	ORP	oxidation-reduction potential
HNO ₃	nitric acid	µg/kg	micrograms per kilogram	OSHA	Occupational Safety and Health Administration
hr	hour	µg/L	micrograms per liter	OWS	oil/water separator
H&S	health and safety	µmhos/cm	micromhos per centimeter	oz	ounce
HSA	hollow-stem auger	min	minimum	PAH	polynuclear aromatic hydrocarbon
HTRW	hazardous, toxic, and radioactive waste	MINICAMS	miniature continuous air sampling system	Parsons	Parsons Engineering Science, Inc.
‘I’	out of control, data rejected due to low recovery	ml	inorganic silts and very fine sands	Pb	lead
ICAL	initial calibration	mL	milliliter	PCB	polychlorinated biphenyl
ICB	initial calibration blank	mm	millimeter	PCE	perchloroethene
ICP	inductively-coupled plasma	MM	mounded material	PCP	pentachlorophenol
ICS	interference check sample	MOGAS	motor vehicle gasoline	PDS	Personnel Decontamination Station
ID	inside diameter	MPA	methyl phosphonic acid	PEL	permissible exposure limit
IDL	instrument detection limit	MR	molasses residue	Pest.	pesticide
IDLH	immediately dangerous to life or health	MS	matrix spike	PG	professional geologist
IDM	investigative derived media	mS/cm	millisiemens per centimeter	PID	photoionization detector
IDW	investigation-derived waste	MSD	matrix spike duplicate	PkA	Philo and Stendal soils local alluvium, 0 to 2 percent slopes
IMPA	isopropylmethyl phosphonic acid	MTBE	methyl tertiary butyl ether	POL	petroleum, oils, and lubricants
IMR	Iron Mountain Road	msl	mean sea level	PP	peristaltic pump
in.	inch	MtD3	Montevallo shaly, silty clay loam, 10 to 40 percent slopes , severely eroded	ppb	parts per billion
Ing	ingestion	mV	millivolts	PPE	personal protective equipment
Inh	inhalation	MW	monitoring well	ppm	parts per million
IP	ionization potential	N/A	not applicable; not available	PPMP	Print Plant Motor Pool
IPS	International Pipe Standard	NAD	North American Datum	ppt	parts per thousand
IRDMIS	Installation Restoration Data Management Information System	NAD83	North American Datum of 1983	PRG	preliminary remediation goals
ISCP	Installation Spill Contingency Plan	NAVD88	North American Vertical Datum of 1988	PSSC	potential site-specific chemical
IT	IT Corporation	NCP	National Contingency Plan	pt	peat or other highly organic silts
ITEMS	IT Environmental Management System TM	ND	not detected	PVC	polyvinyl chloride
‘J’	estimated concentration	NE	no evidence; northeast	QA	quality assurance
JeB2	Jefferson gravelly fine sandy loam, 2 to 6 percent slopes, eroded	NFA	No Further Action	QA/QC	quality assurance/quality control
JeC2	Jefferson gravelly fine sandy loam, 6 to 10 percent slopes, eroded	ng/L	nanograms per liter	QAP	installation-wide quality assurance plan
JfB	Jefferson stony fine sandy loam, 0 to 10 percent slopes have strong slopes	NGVD	National Geodetic Vertical Datum	QC	quality control
K	conductivity	NIC	notice of intended change	QST	QST Environmental Inc.

List of Abbreviations and Acronyms (Continued)

qty	quantity
Qual	qualifier
‘R’	rejected; resample
RAO	removal action objective
RBC	EPA Region III Risk Based Concentration
RCRA	Resource Conservation and Recovery Act
RDX	cyclonite
ReB3	Rarden silty clay loams
REG	field sample
REL	recommended exposure limit
RFA	request for analysis
RI	remedial investigation
RL	reporting limit
RPD	relative percent difference
RRF	relative response factor
RSD	relative standard deviation
RTK	real-time kinematic
SAD	South Atlantic Division
SAE	Society of Automotive Engineers
SAIC	Science Applications International Corporation
SAP	installation-wide sampling and analysis plan
sc	clayey sands; sand-clay mixtures
Sch.	schedule
SD	sediment
SDG	sample delivery group
SDZ	safe distance zone; surface danger zone
SEMS	Southern Environmental Management & Specialties, Inc.
SFSP	site-specific field sampling plan
SGF	standard grade fuels
SHP	installation-wide safety and health plan
SI	site investigation
SL	standing liquid
sm	silty sands; sand-silt mixtures
SM	Serratia marcescens
SOP	standard operating procedure
sp	poorly graded sands; gravelly sands
SP	sump pump
Sr-90	strontium-90
Ss	stony rough land, sandstone series
SS	surface soil
SSC	site-specific chemical
SSHO	site safety and health officer
SSHP	site-specific safety and health plan
SSSL	site-specific screening level
STB	supertropical bleach
STEL	short-term exposure limit
STOLS	Surface Towed Ordnance Locator System®
Std. units	standard units

SU	standard unit
SVOC	semivolatile organic compound
SW	surface water
SW-846	U.S. EPA Test Methods for Evaluating Solid Waste: Physical/Chemical Methods
SZ	support zone
TAL	target analyte list
TAT	turn around time
TB	trip blank
TCA	trichloroethane
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCDF	tetrachlorodibenzofurans
TCE	trichloroethene
TCL	target compound list
TCLP	toxicity characteristic leaching procedure
TDGCL	thiodiglycol
TDGCLA	thiodiglycol chloroacetic acid
TERC	Total Environmental Restoration Contract
TIC	tentatively identified compound
TLV	threshold limit value
TN	Tennessee
TOC	top of casing; total organic carbon
TPH	total petroleum hydrocarbons
TRADOC	U.S. Army Training and Doctrine Command
TRPH	total recoverable petroleum hydrocarbons
TWA	time weighted average
UCL	upper confidence limit
UCR	upper certified range
‘U’	not detected above reporting limit
USACE	U.S. Army Corps of Engineers
USACHPPM	U.S. Army Center for Health Promotion and Preventive Medicine
USAEC	U.S. Army Environmental Center
USAEHA	U.S. Army Environmental Hygiene Agency
USACMLS	U.S. Army Chemical School
USAMPS	U.S. Army Military Police School
USATEU	U.S. Army Technical Escort Unit
USATHAMA	U.S. Army Toxic and Hazardous Material Agency
USCS	Unified Soil Classification System
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
UST	underground storage tank
UXO	unexploded ordnance
VOA	volatile organic analyte
VOC	volatile organic compound
VOH	volatile organic hydrocarbon
VQlfr	validation qualifier
VQual	validation qualifier
VX	nerve agent (O-ethyl-S-[diisopropylaminoethyl]-methylphosphonothiolate)
Weston	Roy F. Weston, Inc.

WP	installation-wide work plan
WS	watershed
WSA	Watershed Screening Assessment
WWI	World War I
WWII	World War II
XRF	x-ray fluorescence
yd ³	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