

**Revisions to:
Fort Wingate Depot Activity
Gallup, NM**

**Open Burning/Open
Detonation Areas
Closure Field Program -
Quality Assurance Project Plan**

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23 January 1997

Table 7-1
MDLs and Upper Limits for Explosives
Solid Matrix
Fort Wingate Depot Activity
Gallup, New Mexico

Constituent	CAS Number	DC		Solid MDL (µg/g)	Solid Upper Limit (µg/g)	ARARs (µg/g)
		USAEC	Method Class			
1,3,5 - Trinitrobenzene	99-35-4	EXL3	1	0.50	250	NA
1,3 - Dinitrobenzene	99-65-0	EXL3	1	0.50	250	NA
2,4,6 - Trinitrotoluene	118-96-7	EXL3	1	1.00	500	NA
2,4 - Dinitrotoluene	121-14-2	EXL3	1	0.50	250	NA
2,6 - Dinitrotoluene	606-20-2	EXL3	1	1.00	500	NA
HMX	2691-41-0	EXL3	1	1.00	500	NA
Nitrobenzene	98-95-3	EXL3	1	1.00	500	NA
RDX	121-82-4	EXL3	1	1.00	500	NA
Tetryl	479-45-8	EXL3	1	1.00	500	NA
2-Amino-4,6-dinitrotol	-	EXL3	1	1.00	500	NA
4-Amino-2,6-dinitrotol	-	EXL3	1	1.00	500	NA
2-Nitrotoluene	88-72-2	EXL3	1	2.00	1000	NA
3-Nitrotoluene	99-08-1	EXL3	1	2.00	1000	NA
4-Nitrotoluene	99-99-0	EXL3	1	2.00	1000	NA

ARARs: Applicable or Relevant and Appropriate Requirements

CAS: Chemical Abstract Service

DC: DataChem will be performing the specified analysis according to the USAEC method referenced.

HMX: Cyclotetramethylenetetranitramine

MDL: Method Detection Limit

NA: Not Applicable

RDX: Hexahydro-1,3,5-trinitro-1,3,4-triazine

USAEC: U.S. Army Environmental Center

µg/g: micrograms per gram

Table 7-2
MDLs and Upper Limits for Explosives
Water Matrix
Fort Wingate Depot Activity
Gallup, New Mexico

Constituent	CAS Number	DC		Water MDL (µg/L)	Water Upper Limit (µg/L)	MCLs (µg/L)
		USAEC Validated Method	Method Class			
1,3,5 - Trinitrobenzene	99-35-4	EXL3	1	0.08	40	NA
1,3 - Dinitrobenzene	99-65-0	EXL3	1	0.08	40	NA
2,4,6 - Trinitrotoluene	118-96-7	EXL3	1	0.16	80	NA
2,4 - Dinitrotoluene	121-14-2	EXL3	1	0.08	40	NA
2,6 - Dinitrotoluene	606-20-2	EXL3	1	0.16	80	NA
HMX	2691-41-0	EXL3	1	0.16	80	NA
Nitrobenzene	98-95-3	EXL3	1	0.16	80	NA
RDX	121-82-4	EXL3	1	0.16	80	NA
Tetryl	479-45-8	EXL3	1	0.16	80	NA
2-Amino-4,6-dinitrotol	-	EXL3	1	0.16	80	NA
4-Amino-2,6-dinitrotol	-	EXL3	1	0.16	80	NA
2-Nitrotoluene	88-72-2	EXL3	1	0.32	160	NA
3-Nitrotoluene	99-08-1	EXL3	1	0.32	160	NA
4-Nitrotoluene	99-99-0	EXL3	1	0.32	160	NA

CAS: Chemical Abstract Service

DC: DataChem will be performing the specified analysis according to the USAEC method referenced.

HMX: Cyclotetramethylenetetranitramine

MCLs: Maximum Contaminant Levels

MDL: Method Detection Limit

NA: Not Applicable

RDX: Hexahydro-1,3,5-trinitro-1,3,4-triazine

USAEC: U.S. Army Environmental Center

µg/L: micrograms per liter

Table 7-3
MDLs and Upper Limits for TAL Metals
Solid Matrix
Fort Wingate Depot Activity
Gallup, New Mexico

Constituent	CAS Number	DC		Solid MDL (µg/g)	Solid Upper Limit (µg/g)	ARARs (µg/g)
		USAEC Validated Method	Method Class			
Aluminum	7429-90-5	ICP1	1	500	50,000	NA
Antimony	7440-36-0	ICP1	1	10.0	1,000	NA
Arsenic	7440-38-2	ICP2	1	0.50	100	NA
Barium	7440-39-3	ICP1	1	10.0	1,000	NA
Beryllium	7440-41-7	ICP1	1	0.50	200	NA
Cadmium	7440-43-9	ICP2	1	0.20	100	NA
Calcium	7440-70-2	ICP1	1	500	50,000	NA
Chromium	7440-47-3	ICP1	1	1.00	200	NA
Cobalt	7440-48-4	ICP1	1	5.00	200	NA
Copper	7440-50-8	ICP1	1	2.00	2,000	NA
Iron	7439-89-6	ICP1	1	1000	40,000	NA
Lead	7439-92-1	ICP2	1	0.50	100	400
Magnesium	7439-95-4	ICP1	1	500	40,000	NA
Manganese	7439-96-5	ICP1	1	20.0	2,000	NA
Mercury	7439-97-6	HGCI	1	0.10	5	NA
Nickel	7440-02-0	ICP1	1	4.00	500	NA
Potassium	7440-09-7	ICP1	1	500	10,000	NA
Selenium	7782-49-2	ICP2	1	0.50	100	NA
Sodium	7440-23-5	ICP1	1	500	30,000	NA
Silver	7440-22-4	ICP1	1	2.00	200	NA
Thallium	7440-28-0	ICP2	1	1.00	100	NA
Vanadium	7440-62-2	ICP1	1	5.00	200	NA
Zinc	7440-66-6	ICP1	1	2.00	2,000	NA

ARARs: Applicable or Relevant and Appropriate Requirements

CAS: Chemical Abstract Service

DC: DataChem will be performing the specified analysis according to the USAEC method referenced.

MDL: Method Detection Limit

NA: Not Applicable

TAL: Target Analyte List

USAEC: U.S. Army Environmental Center

µg/g: micrograms per gram

Table 7-4
MDLs and Upper Limits for TAL Metals
Water Matrix
Fort Wingate Depot Activity
Gallup, New Mexico

Constituent	CAS Number	ESE		Water MDL (µg/L)	Water Upper Limit (µg/L)	MCLs (µg/L)
		USAEC Validated Method	Method Class			
Aluminum	7429-90-5	ICP1	1	40.0	1,000,000	200
Antimony	7440-36-0	ICM1	1	1.00	200	6
Arsenic	7440-38-2	ICM1	1	1.00	200	50
Barium	7440-39-3	ICM1	1	0.50	200	2,000
Beryllium	7440-41-7	ICM1	1	0.20	200	4
Cadmium	7440-43-9	ICM1	1	0.10	200	5
Calcium	7440-70-2	ICP1	1	100	1,000,000	NA
Chromium	7440-47-3	ICM1	1	1.00	200	100
Cobalt	7440-48-4	ICM1	1	1.00	200	NA
Copper	7440-50-8	ICM1	1	1.00	200	1,300
Iron	7439-89-6	ICP1	1	45.0	1,000,000	300
Lead	7439-92-1	ICM1	1	1.00	200	15
Magnesium	7439-95-4	ICP1	1	50.0	1,000,000	NA
Manganese	7439-96-5	ICM1	1	0.50	200	50
Mercury	7439-97-6	HGCI	1	0.20	10	2
Nickel	7440-02-0	ICM1	1	1.00	200	100
Potassium	7440-09-7	ICP1	1	550	1,000,000	NA
Selenium	7782-49-2	ICM1	1	2.00	200	50
Sodium	7440-23-5	ICP1	1	100	500,000	NA
Silver	7440-22-4	ICM1	1	0.10	200	100
Thallium	7440-28-0	ICM1	1	0.10	200	2
Vanadium	7440-62-2	ICM1	1	1.00	200	NA
Zinc	7440-66-6	ICM1	1	2.00	200	5,000

CAS: Chemical Abstract Service

ESE: Environmental Science and Engineering Inc. will be performing the specified analysis according to the USAEC method referenced.

MCLs: Maximum Contaminant Levels

MDL: Method Detection Limit

NA: Not Applicable

TAL: Target Analyte List

USAEC: U.S. Army Environmental Center

µg/L: micrograms per liter