

Table 5-3. Kirtland AFB Pre-Remedy Monitoring - Field and Quality Control Sample Summary per Quarter

Matrix	Analytical Group	No. of Primary Sampling Locations	No. of Field Samples	No. of Field Duplicates	No. of MS/MSDs	No. of Field Blanks	No. of Equipment Rinsates	No. of Trip Blanks	Total No. of Samples to Laboratory
Soil-Vapor Well/Soil-Vapor Extraction Unit Samples (Existing and Proposed)									
Soil Gas	VOCs – EPA TO-15	54 ¹	285	29	0	0	0	1 per shipping container	314 & blanks
Soil Gas	TPH gasoline – EPA TO-15	54	285	29	0	0	0	0	314
Soil Gas	APH – MA DEP (4 events)	54	285	29	0	0	0	0	314
Soil Gas	Fixed gases – ASTM 2504	54	285	29	0	0	0	0	314
Groundwater Well Samples (Existing and Proposed)									
Water	VOCs – SW-846 8260B	111 ²	111	12	12	6	6	1 per cooler	135 & blanks
Water	EDB – SW-846 8011	111	111	12	12	0	0	0	135
Water	TPH as Gasoline – SW-846 8015B	111	111	12	12	0	1 per day if needed	0	135 & blanks
Water	TPH as Diesel – SW-846 8015B	111	111	12	12	0	1 per day if needed	0	135 & blanks
Water	VPH/EPH – MA DEP	111	111	12	12	0	1 per day if needed	0	135 & blanks
Water	Cations and Lead – SW-846 6010C	111	111	12	12	0	1 per day if needed	0	135 & blanks
Water	Anions – EPA 300.0	111	111	12	12	0	0	0	135
Water	Dissolved Iron/Manganese – SW-846 6010C	111	111	12	12	0	1 per day if needed	0	135 & blanks

Table 5-3. Kirtland AFB Pre-Remedy Monitoring - Field and Quality Control Sample Summary per Quarter (concluded)

Matrix	Analytical Group	No. of Primary Sampling Locations	No. of Field Samples	No. of Field Duplicates	No. of MS/MSDs	No. of Field Blanks	No. of Equipment Rinsates	No. of Trip Blanks	Total No. of Samples to Laboratory
Groundwater Well Samples (Existing and Proposed, continued)									
Water	Ammonia Nitrogen – SM4500NH BD/BG	111	111	12	12	0	0	0	135
Water	Total Sulfide – SM 4500 S2CF	111	111	12	12	0	0	0	135
Water	Alkalinity – SM 2320B	111	111	12	12	0	0	0	135

NOTES:

1 Sampling locations include 15 existing soil-vapor monitoring wells (58 ports), 35 new soil-vapor monitoring wells (215 ports), and 4 soil-vapor extraction units - inlet, exhaust 1, 2 (12 samples).

2 Sampling locations include 29 existing wells, 4 municipal wells, and 78 new wells.

APH = air-phase petroleum hydrocarbon

ASTM = ASTM International

EDB = ethylene dibromide

EPA = U.S. Environmental Protection Agency

EPH = extractable petroleum hydrocarbon

MA DEP = Massachusetts Department of Environmental Protection

MS/MSD = matrix spike/matrix spike duplicate

TPH – total petroleum hydrocarbon

VOC = volatile organic compound

VPH – volatile petroleum hydrocarbon