TA-21-'06

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From: Mark S. Thacker [mthacker@lanl.gov]
Sent: Thursday, July 27, 2006 11:45 AM
To: chamberlain, kathryn, NMENV
Cc: 'Day, Emily'; 'Roy Bohn'; 'Woodworth, Lance A.'
Subject: DP Aggregate sampling
Attachments: Expanded Suite Flowchart (5).doc

Katie, want to keep you updated on our expanded suite sampling. Last week we completed 21-003-99 and chose location 22 based on elevated PID readings. Early this week we completed sampling at 21-024(c), the excavation is still to be completed, and we chose location 4 based on slightly elevated beta counts. Today we are completing 21-013(c) and will chose location 4, where HE is required in the work plan due to an HE compound being detected previously, if there are no positive field screening results. I have attached a flow diagram we have put together to aid in choosing the sample locations for expanded suite analyses, it also shows the timing of receiving results and the flow of data to NMED. The attachment contains the table previously transmitted to NMED that lists the default locations at each site, in the event there are no positive field screening results. Please call with any questions.

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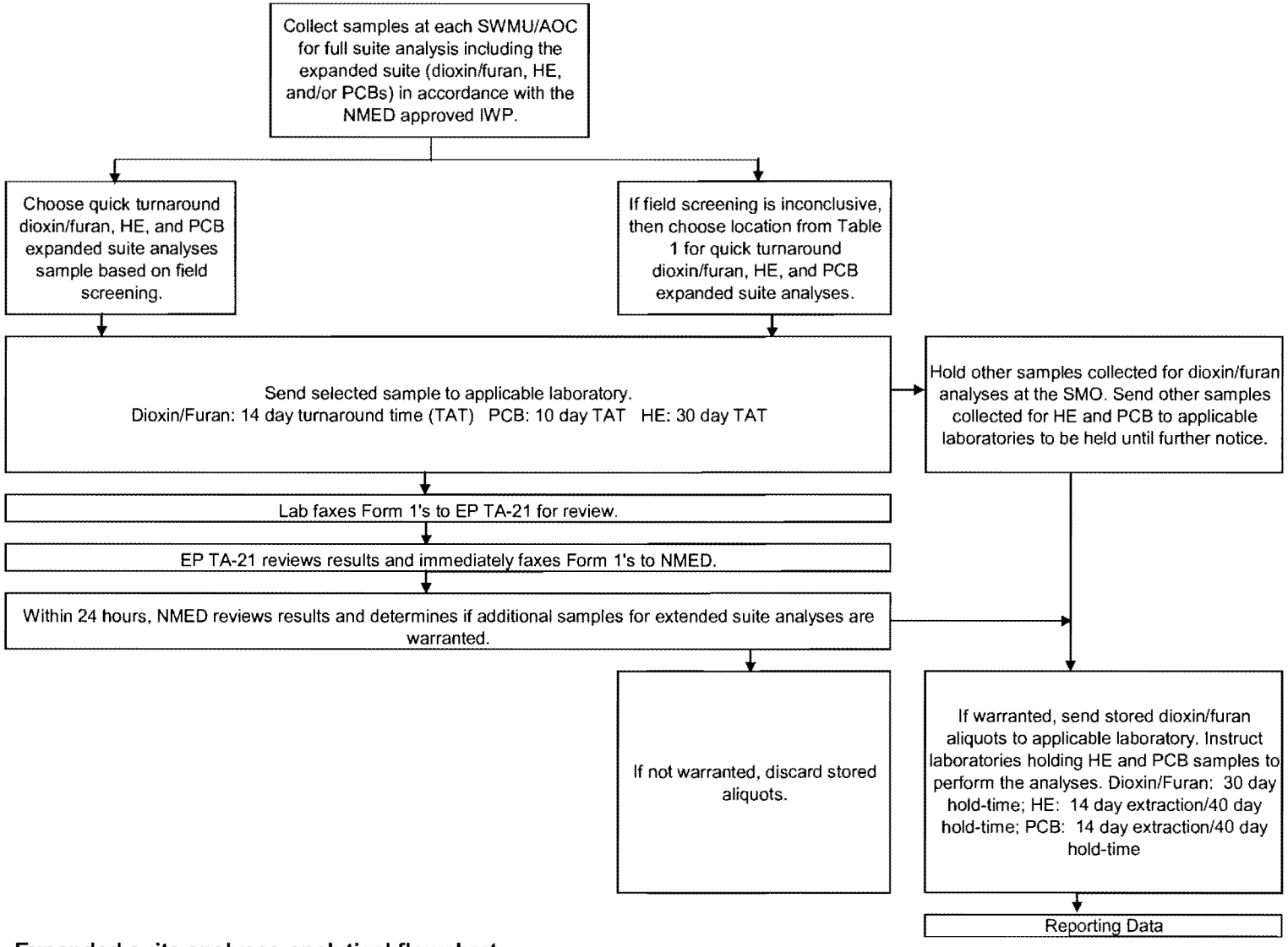

Figure 1. Expanded suite analyses analytical flowchart

Table 1. Default locations for expanded suite analyses

SWMU/AOC/ Consolidated Unit	Location selected for expanded suite analyses	Rationale
21-006(c)-99	BH-2, 21-006(b) (Figure 5.1-3)	Center of seepage pit; location where contaminants potentially accumulated.
	BH-5, 21-006(a) (Figure 5.1-3)	Center of seepage pit; location where potentially contaminants accumulated.
	BH-6, 21-006(c) (Figure 5.1-3)	Center of seepage pit; location where contaminants potentially accumulated.
	BH-7, 21-006(d) (Figure 5.1-3)	Center of seepage pit; location where contaminants potentially accumulated.
21-012(b)	BH-5 (Figure 5.2-2)	Center of seepage pit; location where contaminants potentially accumulated.
	BH-6 (Figure 5.2-2)	Downslope of dry well; location where contaminants potentially accumulated.
21-022(f)	BH-1 (Figure 5.3-2)	Center of sump; location where contaminants potentially accumulated.
21-022(h)-99	BH-2, 21-022(h) (Figure 5.4-3)	Center of outfall; location where contaminants discharged.
	BH-3, 21-022(i) (Figure 5.4-3)	Center of sump; location where contaminants potentially accumulated.
	BH-4, 21-022(j) (Figure 5.4-3)	Center of sump; location where contaminants potentially accumulated.
21-023(a)-99	BH-1, 21-023(a) (Figure 5.5-2)	Center of former septic tank; location where contaminants potentially accumulated.
	BH-2, 21-023(b) (Figure 5.5-2)	Center of former septic tank; location where contaminants potentially accumulated.
	BH-3, 21-023(d) (Figure 5.5-2)	Center of former septic tank; location where contaminants potentially accumulated.
21-024(a)	BH-2 (Figure 5.6-3)	Center of outfall; location where contaminants discharged.
21-024(b)	BH-2 (Figure 5.7-3)	Center of outfall; location where contaminants discharged. Location also near previously detected radionuclide activities at Location 21-01379.
21-024(d)	Location 22 (Figure 5.8-3)	Center of bench; location based on previously detected radionuclide activities at Locations 21-04086 and 21-04087.
21-024(e)	Location 20 (Figure 5.9-3)	Center of edge of mesa top downslope of outfall; location based on previously detected metals and radionuclides at Location 21-01341.
21-024(g)	BH-4 (Figure 5.10-3)	Within drainage ditch closest to early septic tank location; location where contaminants potentially accumulated.
	BH-7 (Figure 5.10-3)	Center of outfall; location where contaminants discharged from septic tank.
21-024(h)	Location 15 (Figure 5.11-3)	Downslope of outfall at drainage low spot; location where contaminants potentially accumulated. Location also based on previously detected radionuclide activities at Location 21-01414.
21-024(i)	Location 4 (Figure 5.12-2)	At pipeline connection to former septic tank; location where contaminants potentially accumulated. Septic tank and outfall previously remediated.

SWMU/AOC/ Consolidated Unit	Location selected for expanded suite analyses	Rationale
21-024(j)	BH-2 (Figure 5.13-3)	Center of outfall; location where contaminants discharged.
21-024(k)	BH-2 (Figure 5.14-3)	Center of tile field; location where contaminants potentially accumulated. [3]
21-024(l)-99	BH-1 (Figure 5.15-3)	Center of sump; location where contaminants potentially accumulated.
	BH-3 (Figure 5.15-3)	Center of outfall; location where contaminants discharged.
	BH-4 (Figure 5.15-3)	Center of outfall; location where contaminants discharged.
21-024(n)	BH-1 (Figure 5.16-3)	Center of outfall; location where contaminants discharged.
	BH-2 (Figure 5.16-3)	North of the cleanout; location where contaminants discharged.
	BH-5 (Figure 5.16-3)	Center of outfall; location where contaminants discharged.
21-024(o)	BH-1 (Figure 5.17-3)	Center of outfall; location where contaminants discharged.
21-026(a)-99	BH-1 (Figure 5.18-3)	Center of sludge drying beds; location where contaminants potentially accumulated.
	BH-5 (Figure 5.18-3)	Center of outfall; location where contaminants discharged.
21-027(a)	BH-2 (Figure 5.19-3)	Center of outfall; location where contaminants discharged.
21-027(c)	BH-1 (Figure 5.20-3)	Center of outfall; location where contaminants discharged.
21-013(c)	Location 4 (Figure 4.1-1)	In the area where an HE compound was previously detected.
21-003-99	Location 18 (Figure 4.2-1)	Downslope of the site; location where the highest Aroclor concentration was previously detected at Location 21-02127.
21-024(c)	Location 1 (Figure 4.3-1)	Center of outfall; location where contaminants discharged.
21-009	Location 5 (Figure 4.4-1)	In the southeast corner of the former laboratory; location where bench counting was performed.
21-002(b)	Location 1 (Figure 4.5-1)	Downslope of the site; location where radionuclide activity was previously detected at Location 21-02506.