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June 10, 2002

Mr. James Webster
On-Scene Coordinator
U.S. Environmental Protection Agency
Emergency Response and Removal Branch
61 Forsyth Street
Atlanta, Georgia 30303

**Subject: Removal Assessment Site-Specific Sampling Plan
Texfi Industries Site
EPA Contract No. 68-W-00-123
Technical Direction Document (TDD) No. 4W-02-05-A-005
Document Control No. RFW-TIS-0007**

Dear Mr. Webster:

Weston Solutions, Inc., formerly Roy F. Weston, Inc., Superfund Technical Assessment and Response Team - 2 (START-2) is submitting one copy of the Removal Assessment Site-Specific Sampling Plan, Revision 0 for the Texfi Industries site in Fayetteville, Cumberland County, North Carolina.

Please contact me at (919) 462-6926 if you have any questions or comments regarding this sampling plan.

Sincerely,
WESTON SOLUTIONS, INC.

Lori Skidmore
START-2 Project Manager

Enclosure

cc: Matthew Monsees, EPA Project Officer (w/o enclosure)
Anita Wender, EPA Contracting Officer (w/o enclosure)
Joseph Baer, START-2 Deputy Program Manager (w/o enclosure)
Michael Sparks, START-2 Removal Coordinator (w/o enclosure)
START-2 File

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REMOVAL ASSESSMENT SITE-SPECIFIC SAMPLING PLAN
TEXFI INDUSTRIES
FAYETTEVILLE, CUMBERLAND COUNTY, NORTH CAROLINA

Revision 1

Prepared for
U.S. ENVIRONMENTAL PROTECTION AGENCY
Region 4
Atlanta, Georgia 30303

Contract No.	:	68-W-00-123
TDD No.	:	4W-02-05-A-005
DCN	:	RFW-TIS-0007
Work Order No.	:	12587-001-001-0144
Date Prepared	:	July 3, 2002
EPA Work Assignment Manager	:	James Webster
Telephone No.	:	404-562-8769
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Approved:

William R. Doyle
START -2- Program Manager

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1.0 INTRODUCTION

The U.S. Environmental Protection Agency (EPA) has tasked the Weston Solutions, Inc. (Weston), formerly Roy F. Weston, Inc., Superfund Technical Assessment and Response Team-2 (START-2) to conduct Removal Assessment (RA) sampling at Texfi Industries (Texfi), under Contract No. 68-W-00-123, Technical Direction Document No. 4W-02-05-A-005. The purpose of the RA sampling event is to determine the nature and extent of contamination and the need for further federal action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986. All activities and procedures discussed and described in this sampling plan will be presented and conducted in accordance with the approved EPA Region 4 ERRB Quality Assurance Project Plan (Ref. 4) and Weston Quality Assurance Project Plan and Quality Management Plan (Refs. 1; 2).

Following are the objectives of this site-specific sampling plan:

- Discuss the findings of previous investigations and other background information.
 - Section 2.0 describes the property in detail.

- Identify the number of samples and sampling locations required to define the nature and extent of contamination.
 - Section 3.0 describes the proposed sampling locations.

- Ensure all Data Quality Objectives (DQO) will be performed in accordance with the prescribed guidance documents including the EPA Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), the Region 4 ERRB Quality Assurance Project Plan, EPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Organics and Inorganics Analysis, and the National Functional Guidelines and Data Validation SOP for CLP Routine Analytical Services, Version 2.1 (Refs. 3; 4; 5; 6; 7; 8; 9). These DQOs specifically apply to sampling locations, sample types, sampling procedures, use of data, data types, and field QA/QC samples (Ref. 3).

2.0 SITE BACKGROUND

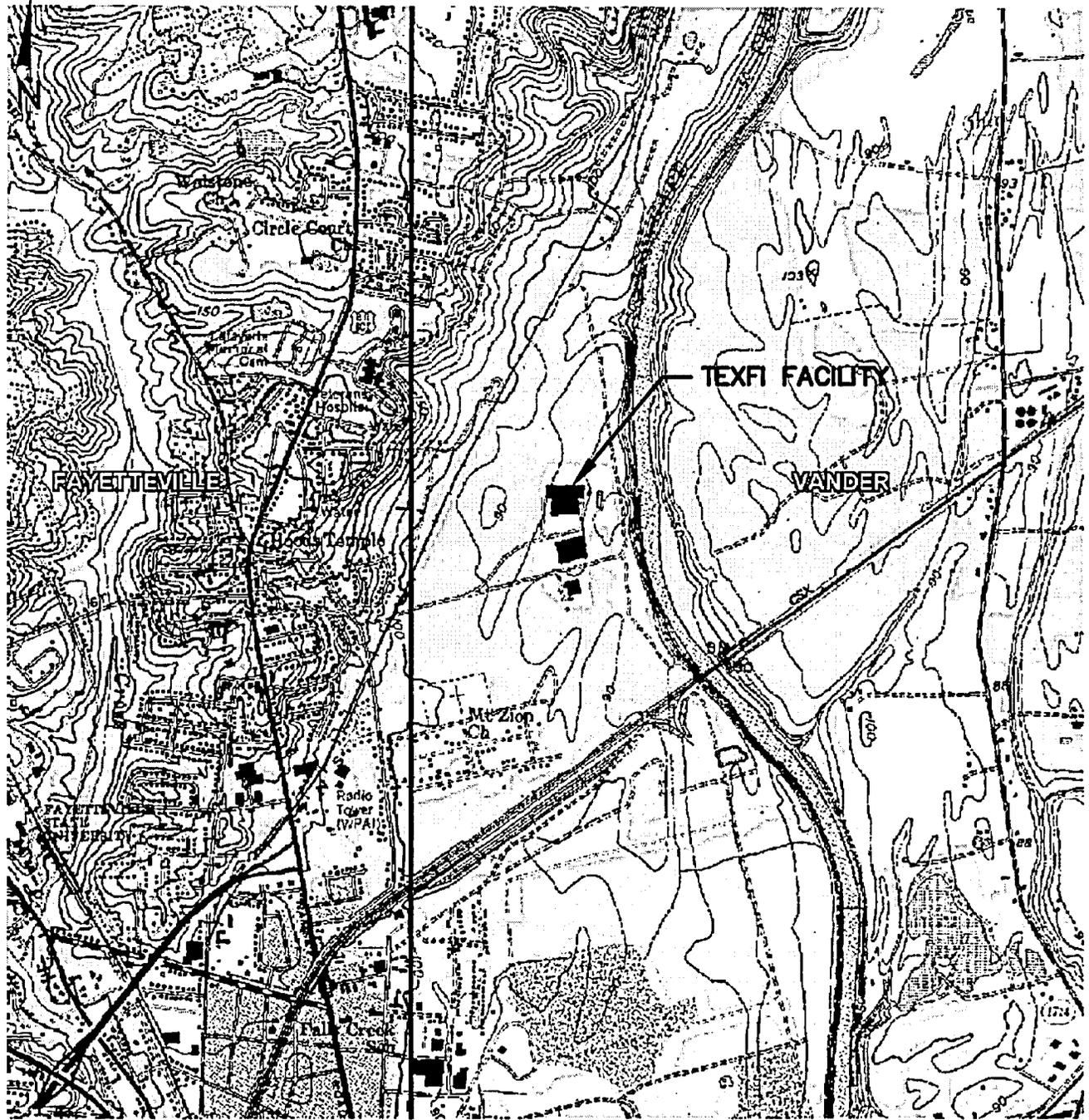
This section describes the property, previous investigations and potential source areas.

2.1 SITE DESCRIPTION

The Texfi Industries (Texfi) site is located at 601 Hoffer Drive, Fayetteville, Cumberland County, North Carolina; the geographic coordinates are approximately 35° 05' 03" N latitude and 78° 52' 03" W longitude (see Figure 1). The Texfi site is an inactive textile manufacturing facility whose operations included yarn preparation, weaving, dyeing and fabric finishing. The property is approximately 95.6 acres in size and situated in an industrial zone. Structures on the property include a 210,613-square-foot manufacturing building, aboveground storage tanks (ASTs) for fuel and chemicals used in manufacturing processes, and a waste water lagoon (see Figure 2). Most of the property is undeveloped and has been logged for timber.

The property is bounded by the Cape Fear River to the east. The Fayetteville Public Works Commission (PWC) Hoffer Water Treatment Facility (Hoffer) is directly adjacent to the property to the south. The Norfolk Southern Railroad borders the property to the west and the area north of the site is undeveloped. Storm water from the building roof and interior enters floor drains and flows to the waste water lagoon on the east side of the property; storm water from unpaved surfaces flows into drainage ditches that empty into the Cape Fear River on the east side of the property and an abandoned canal on the west. Groundwater flow is generally east-southeast towards the river. The nearest residential water supply is the Hoffer Water Treatment Facility that serves 145,000 residents; the treatment facility's 12-million-gallon clear well, containing treated water, is located within 400 feet of the Texfi manufacturing building. The surface water intake for the Hoffer Water Treatment Facility is located on the Cape Fear River 400 feet downstream of the site drainage ditch discharge.

The facility began operations in 1968 and ceased operations in October 1999. Texfi Industries is currently in bankruptcy. Numerous Environmental Site Assessments and sampling events undertaken from 1995 to



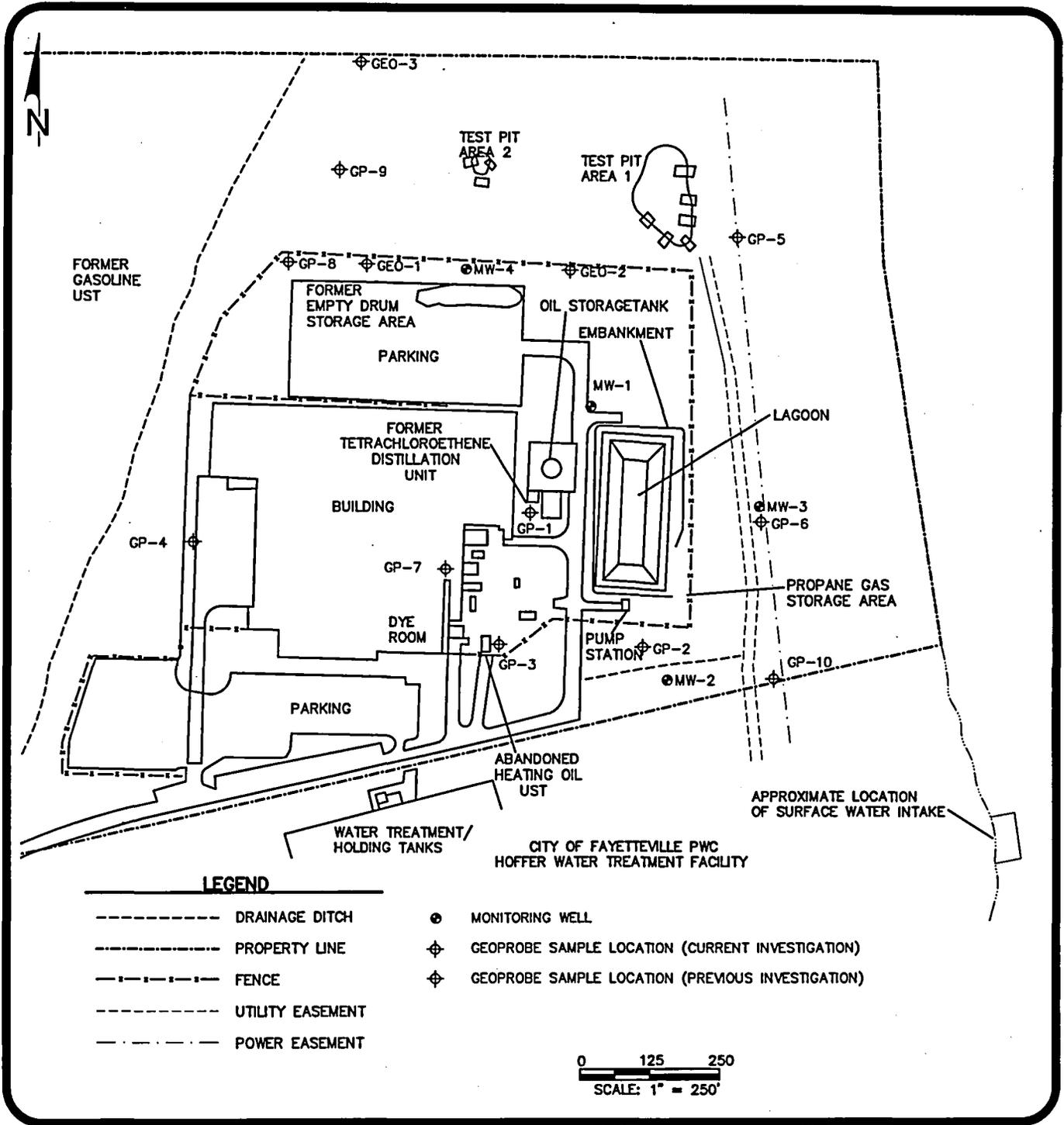
MODIFIED U.S.G.S. QUAD FAYETTEVILLE AND VANDER MAP (7.5 SERIES), DATED 1987, SCALE: 1:2000

TEXFI INDUSTRIES PROPERTY
 FAYETTEVILLE, CUMBERLAND COUNTY,
 NORTH CAROLINA

GENERAL SITE LOCATION MAP
 FIGURE 1



DRAWN: J. MILLER	DATE: 6/3/02	W.O. NO.: 12587-001-001-0144
SCALE: N.T.S.	EPA ID NO:	TDD NO: 4W-02-05-A-005



TEXFI INDUSTRIES PROPERTY
 FAYETTEVILLE, CUMBERLAND COUNTY,
 NORTH CAROLINA

SITE LAYOUT MAP

FIGURE 2



DRAWN: J. MILLER	DATE: 6/3/02	W.O. NO.: 12587-001-001-0144
SCALE: N.T.S.	EPA ID NO:	TDD NO: 4W-02-05-A-005

present have documented chlorinated solvent contamination in soils and groundwater within and beyond the site boundaries.

During an EPA/START-2 reconnaissance in May 2002, it was determined that there are one manufacturing building, numerous above-ground storage tanks (ASTs), a waste water lagoon, and former drum disposal areas located on the property. Most of the equipment in the manufacturing building has been removed; the remaining equipment has been consolidated in certain areas of the building. In the AST area east of the building are currently several ASTs with above ground piping that once contained No. 6 fuel oil and chemicals (including acetic acid and ammonia) used in on-site manufacturing processes. Former plant employees report a 500-gallon AST containing PCE was located near the current power transformer location. A PCE distillation unit was reportedly located adjacent to the containment area for the No. 6 fuel oil AST on the south side. Storm water runoff and process water flows into floor drains inside the plant and flows to the waste water storage lagoon via underground piping.

2.2 PREVIOUS INVESTIGATIONS

In a March 1995 report titled "Above Ground Tank Dike Remediation Report, Texfi Blends, 601 Hoffer Drive, Fayetteville, North Carolina" prepared by Legacy Environmental Services for Texfi Industries, groundwater was found to be contaminated with PCE, trichloroethene (TCE), cis-1,2-dichloroethene (c1,2-DCE), and 1,1,1-trichloroethane. The contamination was discovered during the remediation of contaminated water and soils in the containment area around a 45-foot diameter AST storing No. 6 fuel oil. Monitor well MW-1 was installed at this time due to concerns about groundwater contamination.

A February 1996 report prepared by Aquaterra for Texfi Industries, "Phase I Environmental Site Assessment, Texfi Industries, Fayetteville, North Carolina, Aquaterra Job No. 6100600," identified several areas of concern (AOCs). One AOC included further investigation of the contaminated groundwater near MW-1 in the AST area.

A March 1996 report prepared by Aquaterra for Texfi Industries, "Phase II Environmental Site Assessments, Texfi Elastics, Inc. Facilities, Fayetteville, Haw River, and Rocky Mount, North Carolina," did not address any of the current areas of concern.

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The October 1996 report, "Limited Groundwater Assessment, Texfi Facility, Fayetteville, North Carolina," prepared by Southridge Corporation for Texfi Industries, indicated volatile organic compounds (VOCs) in groundwater in several AOCs on the Texfi property. During this investigation, monitor wells MW-2, MW-3, and MW-4 were installed. The highest concentrations of PCE at 15,000 micrograms per liter (ug/L) and TCE at 2,100 ug/L were reported at MW-4 near the former drum storage area in the north parking lot. The highest concentrations of total VOCs, primarily degradation products of PCE, were reported at MW-1 in the AST area (134,306 micrograms per liter, ug/L). Groundwater flow direction was determined to be to the east towards the Cape Fear River.

An August 1998 report prepared by Aquaterra for Texfi Industries, "Phase I Environmental Site Assessment, Texfi Industries, Inc., Fayetteville, North Carolina," identified the same AOCs noted in the February 1996 Phase I report, with the addition of noting battery charging stations in the plant.

In a January 2001 report by Camp Dresser & McKee on behalf of the Fayetteville Public Works Commission (PWC), titled "Limited Site Assessment Report, Texfi Facility, Fayetteville, NC, Incident No. 13601," total VOCs were reported in groundwater at concentrations up to 36,000 ug/L in the vicinity of the clear well on the adjacent Hoffer property. Soil samples from the AST area at location GP-1 reported 2-chlorotoluene at 1,800,000 micrograms per kilogram (ug/kg), 4-chlorotoluene at 140,000 ug/kg, and PCE at 280,000 ug/kg. In the dye room at sampling location GP-7, PCE was reported in groundwater at 110,000 ug/L. At sampling location GP-5 in the drum disposal excavation Area 1, total VOCs were reported in groundwater at 5,780 ug/L.

On February 19, 2001, Camp Dresser & McKee sent a letter on behalf of the PWC to Charlotte Jesneck, Head of the State Inactive Hazardous Sites Branch, with recommendations for remedial investigations at the Texfi Facility including an interceptor trench, recovery wells, and further assessment of the site.

Following these recommendations, piezometers have been installed and sampled on the Texfi and adjacent Hoffer properties. Samples from these piezometers have documented groundwater contaminated with VOCs migrating from the Texfi property to the Hoffer property. Samples from wells within 20 feet of the clear well on the Hoffer property have reported PCE concentrations up to 9,000 ug/L and c1,2-DCE up to 23,000 ug/L.

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Surface water samples collected from a drainage ditch flowing west to east between the Texfi and Hoffer properties have shown reported concentrations of PCE at 11,400 ug/L and TCE at 2,800 ug/L. This ditch discharges to the Cape Fear River approximately 400 feet upstream of the Hoffer Water Treatment Facility surface water intake.

In 2001, a soil-bentonite slurry wall approximately 450 feet long was built between the Texfi site and the Hoffer Water Treatment Facility clear well to prevent migration of contaminants to the clear well area. Three recovery wells were installed on Texfi property upgradient of the slurry wall to reduce contaminant concentrations near the clear well and inhibit migration of contaminants.

Currently, removal activities are being conducted by the Emergency and Rapid Response Services (ERRS), an EPA contractor. In May 2002, START-2 conducted a site reconnaissance of the property and completed air sampling activities inside the manufacturing building.

2.3 POTENTIAL SOURCE AREAS

The following potential source areas have been identified:

- The dye room, inside the manufacturing building.
- The AST area east of the building.
- The former drum storage area in the north parking lot.
- Excavation Area 1, drum disposal area northeast of the facility.
- The storm water lagoon and drain system from building.
- The surface water drainage ditch between the Texfi property and the Hoffer Water Treatment Facility.

3.0 PROPOSED SAMPLING PLAN

The purpose of the sampling investigation is to determine the presence or absence of contamination in specific source areas. Based upon the results of the sampling activities, contaminated soils may be excavated and disposed of in a proper manner. START-2 personnel will collect surface soil, subsurface soil, surface

water, and groundwater samples at proposed sampling locations as presented in Figure 3. Sample locations will be documented in the field using a global positioning system (GPS) unit. All sediment and soil samples will be collected as biased grab samples. Tables 1 and 2 identify the sample numbers, types of samples proposed, and the rationale for the sediment and subsurface soil samples, respectively. All sediment samples will be collected from the water-sediment interface. The subsurface soil samples will be collected from intervals as specified in Table 2. Additionally, Quality Assurance/Quality Control (QA/QC) samples will be collected as required in the EPA Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) (Ref. 3) and as presented in Table 5.

3.1 SEDIMENT SAMPLING

START-2 will collect a total of three (3) sediment samples during the investigation; two (2) sediment samples from around the site property and one background sediment sample from an off-site location away from any site influence. The exact location of the background sample will be determined during the field investigation. Figure 3 illustrates proposed sampling grid locations. Table 1 lists the proposed locations and rationale for surface soil samples to be collected. Actual sampling locations may change based on reconnaissance observations.

Sediment samples will be collected from the sediment-water interface from 0 to 6 inches below ground surface (bgs) using stainless-steel scoops. All samples will only be analyzed for VOCs and will be placed directly into the sample containers. All soil samples will be collected and placed on ice in accordance with the EPA EISOPQAM (Ref. 3).

3.2 SUBSURFACE SOIL SAMPLING

START-2 will collect a total of thirty-eight (38) subsurface soil samples during the investigation; thirty-six (36) subsurface soil samples will be collected from the property and two (2) background samples will be collected offsite and away from any site influence. Subsurface soil samples will be collected from intervals of 1.5 to 2.0 feet bgs and 3.5 to 4.0 feet bgs from subsurface soil sampling locations as presented in Figure 3. The actual depth of subsurface soil collection may change during the field investigation in order to sample

intervals that exhibit high concentrations of VOCs as measured by an organic vapor meter (OVM) in the field at the time of sampling. The exact location of the background sample will be determined during the field investigation.

Figure 3 illustrates the proposed sampling locations. Subsurface soil samples collected within the manufacturing building will be collected using a concrete core drill to drill through the concrete floor. Table 2 lists the proposed locations and rationale for subsurface soil samples to be collected. Subsurface soil samples will be extracted from the specified sampling intervals using stainless steel hand augers and stainless steel spoons. All samples will be analyzed for VOCs; one subsurface soil sample will also be analyzed for VOC-TCLP. VOC samples will be removed from the auger and placed directly into the sample container. All soil samples will be collected and placed on ice in accordance with the EPA EISOPQAM (Ref. 3).

3.3 SURFACE WATER SAMPLING

START-2 will collect three (3) surface water/wastewater samples from surface drainage features on-site and adjacent to the site as presented in Figure 3. START-2 will also collect one background surface water sample from an offsite location away from any site influence. The exact location of the background sample will be determined during the field investigation.

Figure 3 illustrates proposed sampling locations. Table 3 lists the proposed locations and rationale for surface water samples to be collected. All surface water samples will be collected, preserved, and placed on ice in accordance with the EPA EISOPQAM (Ref. 3).

3.4 GROUNDWATER SAMPLING

START-2 will collect six (6) groundwater samples from the existing groundwater monitoring wells installed during previous investigations. START-2 will also collect one background groundwater sample from an off-site location away from any site influence. The exact location of the background sample will be determined during the field investigation.

Figure 3 illustrates proposed sampling locations. Table 4 lists the proposed locations and rationale for groundwater samples to be collected. Groundwater samples will be collected from existing monitoring wells. Prior to sampling, the static water level will be measured at each well to within 0.01 feet. All groundwater samples will be analyzed for VOCs. All groundwater samples will be collected, preserved, and placed on ice in accordance with the EPA EISOPQAM (Ref. 3).

4.0 FIELD WORK SUMMARY

START-2 is anticipating to begin sampling activities the week of July 15, 2002, after the sampling plan has been approved by EPA. Proposed sampling locations are described in Section 3.0 and presented on Figure 3. The field team leader may change the sampling locations and the number of samples in response to site conditions at the time of the sampling visit. Removal Assessment sampling activities will be conducted, and quality assurance samples will be collected, in accordance with procedures documented in the EPA EISOPQAM and National Functional Guidelines and Data Validation SOP for CLP Routine Analytical Services, Version 2.1 (Refs. 3; 6). All CLP samples will be analyzed in accordance with the EPA CLP SOW for Organics Analysis (OLMO4.2)(Ref. 5). The proposed START-2 health and safety protocol to be followed during the sampling event is described in the site health and safety plan, submitted under separate cover.

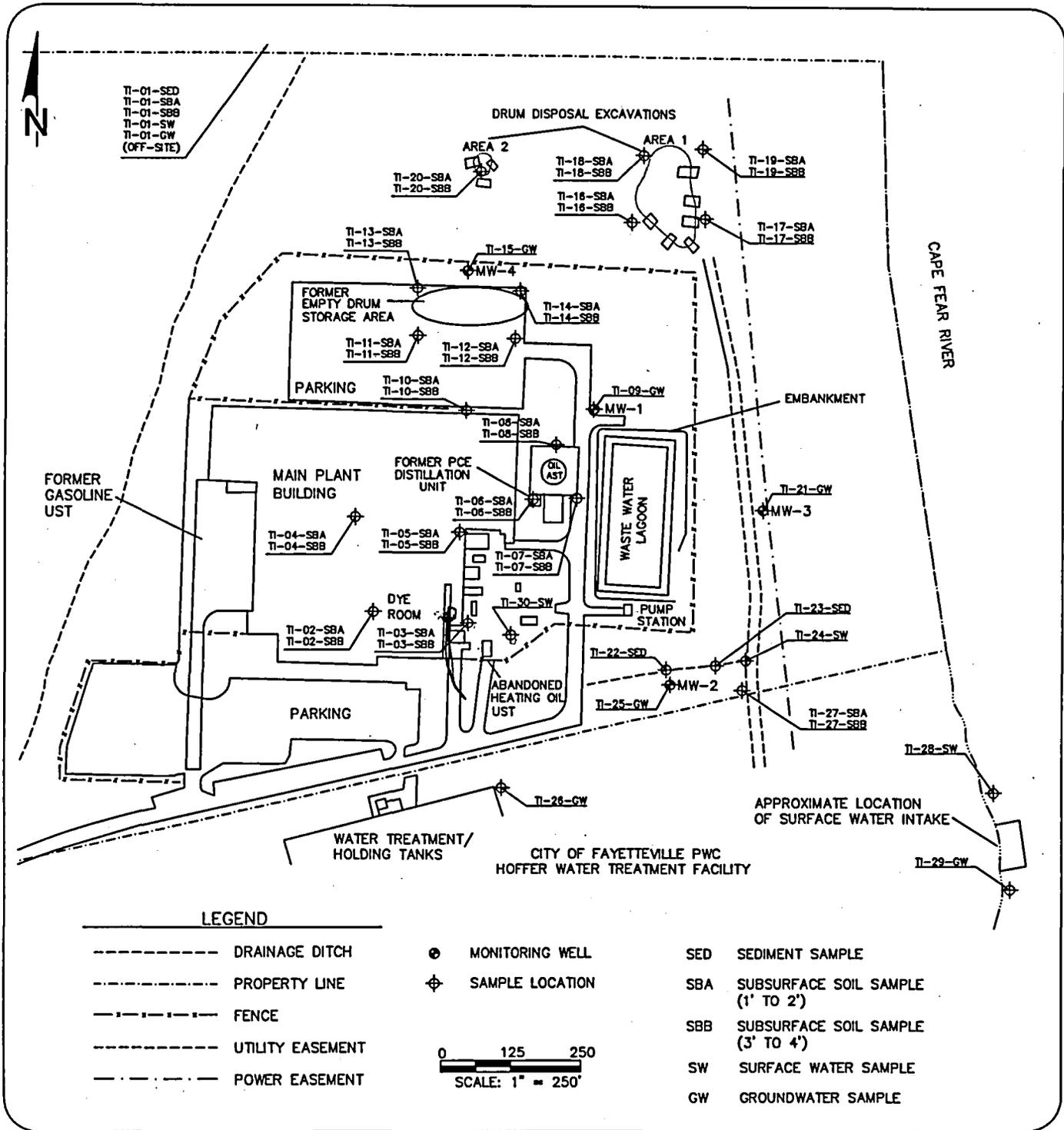
Field team members and their responsibilities are as follows:

- Lori Skidmore Field Team Leader/Site Health and Safety Coordinator
- To be determined Sampling Team Member

All specific training requirements for personnel will be addressed in the site health and safety plan. EPA will be responsible for obtaining access to the site and sampling locations presented in Section 4.0. START-2 will provide EPA with a list of sampling locations. EPA will reserve the right to conduct oversight.

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TEXFI INDUSTRIES PROPERTY
FAYETTEVILLE, CUMBERLAND COUNTY,
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PROPOSED SAMPLE LOCATION MAP
FIGURE 3



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SCALE: N.T.S.	EPA ID NO:	TDD NO: 4W-02-05-A-005

TABLE 1
SEDIMENT SAMPLING PLAN

Sample Number	Location	Rationale
TI-01-SED	Background; offsite and upgradient	Background sediment sample for comparison to on-site sediments
TI-22-SED	In drainage ditch, western end near monitor well MW-2	Determine presence or absence of hazardous substances
TI-23-SED	In drainage ditch, eastern end before outfall	Determine presence or absence of hazardous substances

Notes: TI Texfi Industries
 SED Sediment sample

**TABLE 2
 SUBSURFACE SOIL SAMPLING PLAN**

Sample Number	Location	Rationale
TI-01-SBA	Background; offsite and upgradient	Background subsurface soil sample for comparison to on-site subsurface soils
TI-01-SBB	Background; offsite and upgradient	Background subsurface soil sample for comparison to on-site subsurface soils
TI-02-SBA	In dye room, southwest corner	Determine presence or absence of hazardous substances
TI-02-SBB	In dye room, southwest corner	Determine presence or absence of hazardous substances
TI-03-SBA	Outside of dye room trench, southeast corner of building	Determine presence or absence of hazardous substances
TI-03-SBB	Outside of dye room trench, southeast corner of building	Determine presence or absence of hazardous substances
TI-04-SBA	In dye room, northwest corner	Determine presence or absence of hazardous substances
TI-04-SBB	In dye room, northwest corner	Determine presence or absence of hazardous substances
TI-05-SBA	In dye room, northeast corner	Determine presence or absence of hazardous substances
TI-05-SBB	In dye room, northeast corner	Determine presence or absence of hazardous substances
TI-06-SBA	In AST area, southwest corner of fuel tank containment wall	Determine presence or absence of hazardous substances
TI-06-SBB	In AST area, southwest corner of fuel tank containment wall	Determine presence or absence of hazardous substances
TI-07-SBA	In AST area, southeast corner of fuel tank containment wall	Determine presence or absence of hazardous substances
TI-07-SBB	In AST area, southeast corner of fuel tank containment wall	Determine presence or absence of hazardous substances
TI-08-SBA	In AST area, north of fuel tank containment wall	Determine presence or absence of hazardous substances

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TABLE 2 (continued)
SUBSURFACE SOIL SAMPLING PLAN

Sample Number	Location	Rationale
TI-08-SBB	In AST area, north of fuel tank containment wall	Determine presence or absence of hazardous substances
TI-10-SBA	Northeast corner of main plant building	Determine presence or absence of hazardous substances
TI-10-SBB	Northeast corner of main plant building	Determine presence or absence of hazardous substances
TI-11-SBA	Drum storage area in north parking lot, southwest corner	Determine presence or absence of hazardous substances
TI-11-SBB	Drum storage area in north parking lot, southwest corner	Determine presence or absence of hazardous substances
TI-12-SBA	Drum storage area in north parking lot, southeast corner	Determine presence or absence of hazardous substances
TI-12-SBB	Drum storage area in north parking lot, southeast corner	Determine presence or absence of hazardous substances
TI-13-SBA	Drum storage area in north parking lot, northwest corner	Determine presence or absence of hazardous substances
TI-13-SBB	Drum storage area in north parking lot, northwest corner	Determine presence or absence of hazardous substances
TI-14-SBA	Drum storage area in north parking lot, northeast corner	Determine presence or absence of hazardous substances
TI-14-SBB	Drum storage area in north parking lot, northeast corner	Determine presence or absence of hazardous substances
TI-16-SBA	Former drum disposal excavation Area 1, southwest corner	Determine presence or absence of hazardous substances
TI-16-SBB	Former drum disposal excavation Area 1, southwest corner	Determine presence or absence of hazardous substances
TI-17-SBA	Former drum disposal excavation Area 1, southeast corner	Determine presence or absence of hazardous substances
TI-17-SBB	Former drum disposal excavation Area 1, southeast corner	Determine presence or absence of hazardous substances
TI-18-SBA	Former drum disposal excavation Area 1, northwest corner	Determine presence or absence of hazardous substances

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TABLE 2 (continued)
SUBSURFACE SOIL SAMPLING PLAN

Sample Number	Location	Rationale
TI-18-SBB	Former drum disposal excavation Area 1, northwest corner	Determine presence or absence of hazardous substances
TI-19-SBA	Former drum disposal excavation Area 1, northeast corner	Determine presence or absence of hazardous substances
TI-19-SBB	Former drum disposal excavation Area 1, northeast corner	Determine presence or absence of hazardous substances
TI-20-SBA	Former drum disposal excavation Area 2, northeast corner	Determine presence or absence of hazardous substances
TI-20-SBB	Former drum disposal excavation Area 2, northeast corner	Determine presence or absence of hazardous substances
TI-27-SBA	Outfall from clear well to drain to sewer	Determine presence or absence of hazardous substances
TI-27-SBB	Outfall from clear well to drain to sewer	Determine presence or absence of hazardous substances

Notes: TI Texfi Industries
 SBA Subsurface soil sample collected from 1 to 2 feet bgs
 SBB Subsurface soil sample collected from 3 to 4 feet bgs
 bgs below ground surface

TABLE 3
SURFACE WATER SAMPLING PLAN

Sample Number	Location	Rationale
TI-01-SW	Background; offsite and upgradient	Background surface water sample for comparison to on-site surface water samples
TI-24-SW	Outfall from drainage ditch on east side of property	Determine presence or absence of hazardous substances
TI-28-SW	Cape Fear River upstream of Hoffer Water Treatment Facility surface water intake	Determine presence or absence of hazardous substances
TI-30-SW	Building drain system at manhole to waste water lagoon	Determine presence or absence of hazardous substances

Notes: TI Texfi Industries
 SW Surface water sample

TABLE 4
GROUNDWATER SAMPLING PLAN

Sample Number	Location	Rationale
TI-01-GW	Background; offsite and upgradient	Background groundwater sample for comparison to on-site groundwater samples
TI-09-GW	Monitor well MW-1	Determine presence or absence of hazardous substances
TI-15-GW	Monitor well MW-4	Determine presence or absence of hazardous substances
TI-21-GW	Monitor well MW-3	Determine presence or absence of hazardous substances
TI-25-GW	Monitor well MW-2	Determine presence or absence of hazardous substances
TI-26-GW	From clear well to drain manhole MH-2	Determine presence or absence of hazardous substances
TI-29-GW	From to drain outfall to Cape Fear River	Determine presence or absence of hazardous substances

Notes: TI Texfi Industries
 GW Groundwater sample
 MW Monitoring well
 MH Manhole

TABLE 5
QUALITY ASSURANCE/QUALITY CONTROL SAMPLING PLAN

Sample Number	Sample Type	Rationale
TI-01-SB	Soil trip blank (volatile organic analysis only)	Determine if unknown site conditions or sample handling procedures are influencing sample results
TI-01-TB	Water trip blank (volatile organic analysis only)	Determine if unknown site conditions or sample handling procedures are influencing sample results
TI-01-RB	Equipment rinsate blank (full scan routine analysis)	Determine if decontamination procedures adequately clean equipment
TI-XXD-SBA	Duplicate soil sample; location to be determined	Determine laboratory ability to duplicate result
TI-XXD-SBA	Duplicate soil sample; location to be determined	Determine laboratory ability to duplicate result
TI-XXD-SW	Duplicate water sample; location to be determined	Determine laboratory ability to duplicate result

Notes: TI Texfi Industries
 TB Trip blank
 RB Rinsate blank
 SB Soils Blank
 XX Generic sample location
 D Duplicate sample location

TABLE 6
ANALYTICAL METHODOLOGY, REQUIRED SAMPLE CONTAINERS,
AND PRESERVATIVES

Matrix	Analysis	EPA Method	Sample Container	Preservative	Holding Times
Water	VOC	CLP	Three, 40-mL glass vials with septum seal	HCl (pH < 2), ice	14 days
Soil	VOC	CLP	Encore sampler (15 g sample)	Ice	48 hours
Sediment	VOC ≥ 200 ug/kg (water suspension)	CLP	120 ml; Two, 2-oz glass jars with septum	Ice	48 hours
Soil	VOC - TCLP	CLP	One, 2-oz glass jars with septum lid	Ice	14 days

Notes: VOC Volatile Organic Compounds
 CLP Contract Laboratory Program
 VOC - TCLP Volatile organic compound - toxic characteristic leaching procedure analysis
 °C Degree Celsius
 g Gram
 oz Ounce
 HCl Hydrochloric acid
 ug/kg Microgram per kilogram
 < Less than

5.0 DISPOSAL OF INVESTIGATION-DERIVED WASTE

Investigation-derived wastes (IDW) will generally consist of disposable latex gloves, boot covers, respirator cartridges, and Tyvek® coveralls. These items are used mainly to prevent cross-contamination, provide personnel protection, and provide sanitary conditions during sampling activities. If contact with concentrated wastes occurs, disposable gear will be secured in a 55-gallon drum on site, until sample analytical results are received. If analytical data reveal contamination levels that require special handling, these wastes will be profiled and disposed of by a licensed hauling and disposal facility. Up to three months will be required to profile drum contents, contract a disposal firm, and remove the drums from the property. If, in the best professional judgment of the field team leader, IDW can be rendered nonhazardous, the wastes will be double-bagged and deposited in an industrial waste container, as directed in the EPA EISOPQAM (Reference 3).

Purge water generated during groundwater sampling activities will be disposed of by one of the following procedures:

- contain on-site in 55-gallon drums, characterize, and dispose of by a licensed hauling and disposal facility;
- discharge water on-site;
- discharge per the direction of the OSC.

REFERENCES

1. Roy F. Weston, Inc. Quality Assurance Project Plan. May 2000.
2. Roy F. Weston, Inc. Quality Management Plan. May 2000.
3. U.S. Environmental Protection Agency (EPA), Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM). November 2001.
4. EPA. Region 4, Emergency Response and Removal Branch Quality Assurance Project Plan. October 2001.
5. EPA. Contract Laboratory Program Statement of Work for Organics Analysis, OLM04.2. May; 1999.
6. EPA. Contract Laboratory Program National Functional Guidelines for Organic Data Review, EAP-540/R-94/012. February, 1994.
7. EPA. Contract Laboratory Program National Functional Guidelines for Routine Analytical Services, Revision 2.1. July, 1999.