SITE INSPECTION SAMPLING PLAN
SEVEN OUT LLC TANK
901 Francis Street
Waycross, Ware County, GA 31501
CERCLIS ID NO. GAN000407811
Vol. 2 of 2

SITE: Seven Out LLC
BREAK: 1.9
OTHER: v. 2

APPENDIX E
REFERENCES

Reference 1

(1)

EPA540-R-92-021
Directive 9345.1-05
September 1992

Guidance for Performing Site Inspections Under CERCLA

Interim Final

Hazardous Site Evaluation Division
Office of Solid Waste and Emergency Response
U.S. Environmental Protection Agency
Washington, DC 20460

Reference 2

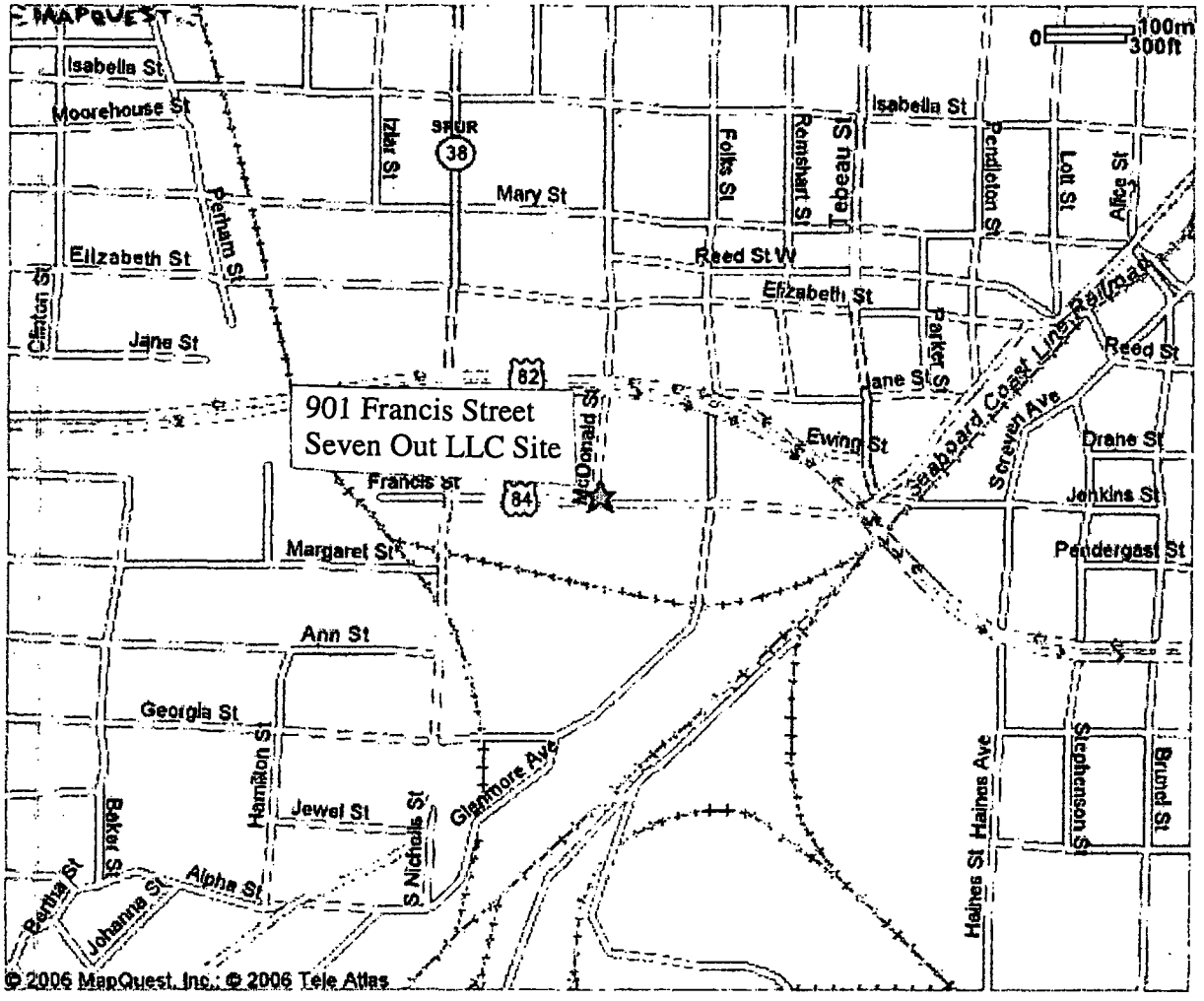
2

MAPQUEST.

901 Francis St
Waycross GA
31503-2335 US

Notes:

Seven Out LLC Tank



Reference 3

(3)

Tetra Tech EM Inc.

Northmont Business Park ◆ 1955 Evergreen Boulevard, Suite 300 ◆ Duluth, GA 30096 ◆ (678) 775-3080 ◆ FAX (678) 775-3138

August 19, 2004

Mr. Terry Stilman
On-Scene Coordinator
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Removal Assessment Sampling Plan**
Seven Out, LLC Site
Waycross, Ware County, Georgia
EPA Contract No. 68-W-00-120 (START 4)
Technical Direction Document No. 4T-04-07-A-011

Dear Mr. Stilman:

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) is submitting one electronic copy of the removal assessment (RA) Sampling Plan for the Seven Out, LLC site in Waycross, Ware County, Georgia. The planned sampling event is scheduled for the week of August 23, 2004.

Lab analysis for the waste samples will be performed by AES Labs in Atlanta, Georgia. Please contact me at (678)775-3108 if you have any questions or comments regarding this sampling plan.

Sincerely,

John Mitchell
START Project Manager

Enclosure

cc: Matthew Monsees, EPA Project Officer
Don Rigger, EPA ERRB Removal Operations Section Chief (w/o enclosure)
Sam Jamison, EPA Contract Officer (w/o enclosure)
Steve Pierce, START Leader (w/o enclosure)
START File

REMOVAL ASSESSMENT

SAMPLING AND ANALYSIS PLAN

SEVEN OUT, LLC SITE
WAYCROSS, WARE COUNTY, GEORGIA

DRAFT

Prepared for

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

Contract No.	:	68-W-00-120
TDD No.	:	4T-04-07-A-011
Date Prepared	:	August 19, 2004
EPA Task Monitor	:	Terry Stilman
Telephone No.	:	(404) 562-8748
Prepared by	:	Tetra Tech EM Inc.
START Project Manager	:	John Mitchell
Telephone No.	:	(678) 775-3108

CONTENTS

FIGURES

TABLES

1.0 INTRODUCTION

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) received Technical Direction Document (TDD) No. 4T-04-07-B-011 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W-00-120. Under this work assignment, START will assist EPA in conducting removal assessment (RA) activities at the Seven Out, LLC site operating under the facility name of BCX Corporation, located in Waycross, Ware County, Georgia. This sampling plan specifies the type, number, and locations of samples to be collected during the RA, as well as the sampling methodology that will be followed.

The general purposes of an RA are to collect information on current site conditions, including the presence and nature of contamination, provide technical assistance for the RA sampling activities, and determine the need for removal actions at the site.

RA activities will include the following:

- Collecting environmental samples
- Interviewing the site owner and/or State representatives
- Using air monitoring instrumentation to screen the site
- Photographing site features and sampling locations
- Assessing the need for removal activities
- Preparing sampling and chain-of-custody documentation

This RA sampling and analysis plan for the Seven Out site is organized as follows:

- Section 2.0 presents facility background information.
- Section 3.0 describes sampling locations used to determine the hazardous constituents of tank contents.

To further ensure that all appropriate data quality objectives (DQO) are met, field and laboratory activities will be performed in accordance with prescribed guidance documents, including the EPA Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), EPA Contract

Laboratory Program (CLP) Statement of Work (SOW) for Inorganics Analysis, the CLP National Functional Guidelines for Inorganic Data Review, the Region 4 Data Validation Standard Operating Procedures (SOP) for CLP Routine Analytical Services, Revision 2.1, and the Region 4 Analytical Support Branch Laboratory Operations and Quality Assurance Manual (Refs. 1; 2; 3; 4; 5; 6; 7; and 8 as appropriate). These guidance documents specifically apply to sample types, sampling procedures, field quality assurance and quality control (QA/QC) samples, laboratory procedures, and data validation.

2.0 BACKGROUND

The Seven Out site is located at 901 Francis Street in Waycross, Ware County, Georgia. The facility is less than 2 years old and operates as an industrial wastewater treatment facility. The property has 27 storage/treatment tanks with a combined capacity over 450,000 gallons. Wastewater is treated with the treatment process being adjusted for each batch to ensure the end product meets pretreatment standards. Wastes are precipitated out using sodium hydroxide, aluminum sulfate, ferric acid, and sulfuric acid which are stored in bulk tanks on site. The precipitated solids are then sent to a filter press. The filter press solids are sent to the Broadhurst Environmental landfill in Screvin, Georgia. The treated wastewater is discharged to the City of Waycross publicly owned treatment works (POTW) using the City's collection system.

The City of Waycross issued Notices of Violation and an Administrative Order to the facility due to many exceedances of the company's pre-treatment permit. The facility received 8 enforcement letters between May 2003 and December 2003 from the City of Waycross. The facility voluntarily ceased accepting industrial wastewater and stopped discharging to the Waycross POTW on March 1, 2004.

The plant manager informed Georgia Department of Natural Resources (GADNR) personnel that there was no documentation available that demonstrated exactly what was currently in each tank. Some information on past customers and waste profiles were identified. However, information on the current contents of the tanks is not available.

3.0 SAMPLING PLAN

The primary purpose of the RA is to collect data to evaluate the need for a removal action at the site. Tetra Tech will focus on collecting samples from all onsite storage and treatment tanks with an emphasis on the settled fractions and/or sludges. Figure 1 is the topographic map of the area, Figure 2 is the Site Layout Map. Table 1 outlines the numbers and types of samples to be collected during the RA and the rationale for each sampling interval from within the tank. The tank numbers will be used and an identifier with additional information based on whether the sample is a sludge/tank bottom, wastewater or light non-aqueous phase liquid (LNAPL).

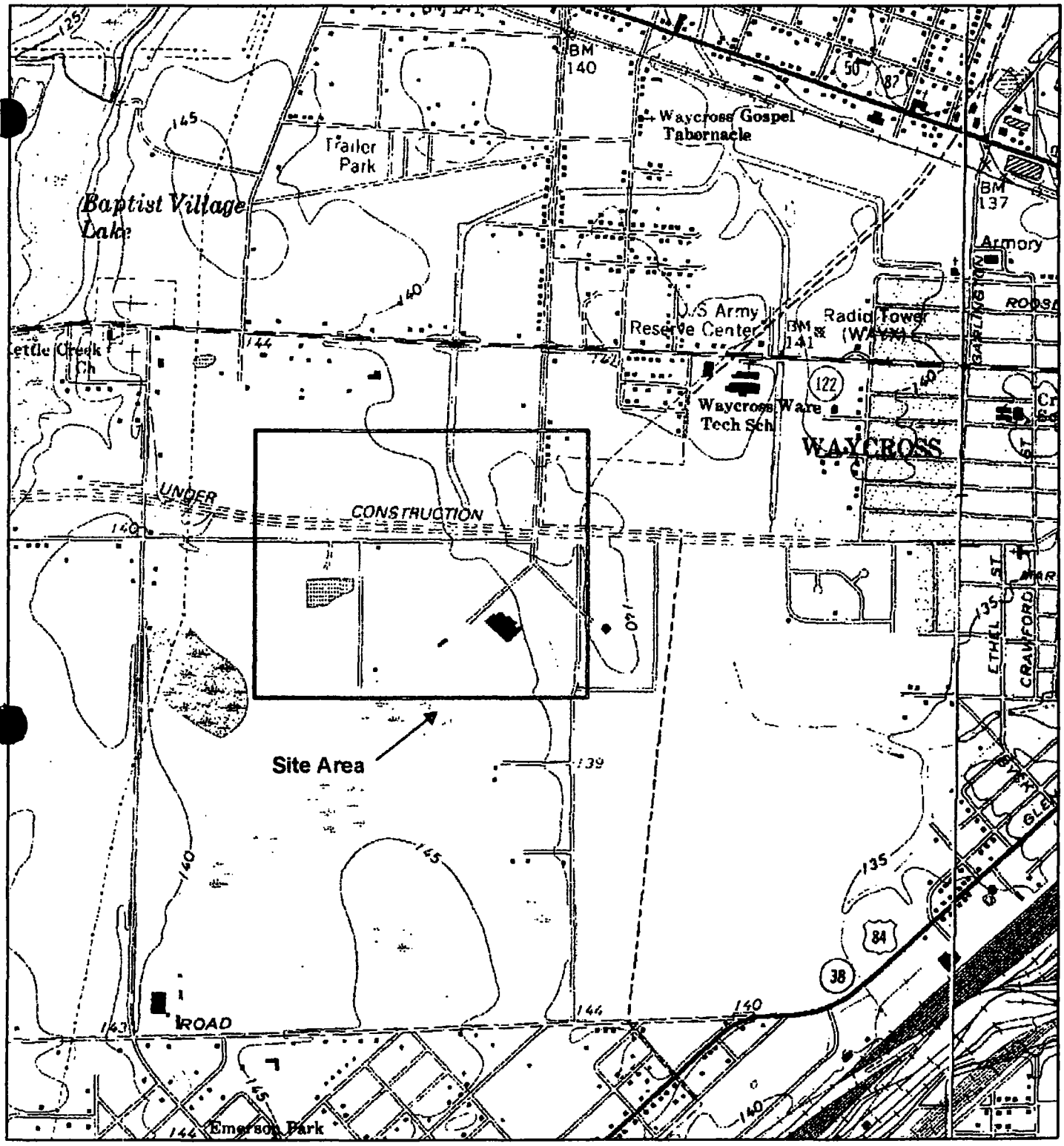
All waste samples will be submitted to AES Laboratories in Atlanta, Georgia for analysis of Target Analyte List (TAL) metals, TAL Volatiles, TAL Semi-volatiles and selected TCLP for metals with analytical service parameters in accordance with the following EPA guidance document, as appropriate:

- U.S. Environmental Protection Agency, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-94/013, February 1994.

- U.S. Environmental Protection Agency, Region 4, Science and Ecosystem Support Division, Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.

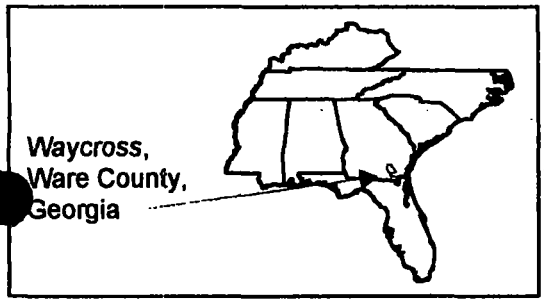
- U.S. Environmental Protection Agency, Science and Ecosystem Support Division Region 4, Analytical Support Branch Laboratory Operations and Quality Assurance Manual, July 1, 2001.

Table 2 presents QA/QC samples to be collected during the RA field activities. Table 3 presents the analytical methodology for each sample matrix, as well as the appropriate sample container and sample preservative. Sampling and field QA/QC procedures for RA field activities will be conducted in accordance with the EPA SESD Region 4 EISOPQAM (Ref. 1).



Modified from USGS 7.5 Minute Quadrangles: Waycross East, GA, 1993; Waycross West, GA, 1993

0 750 1,500 3,000
Feet



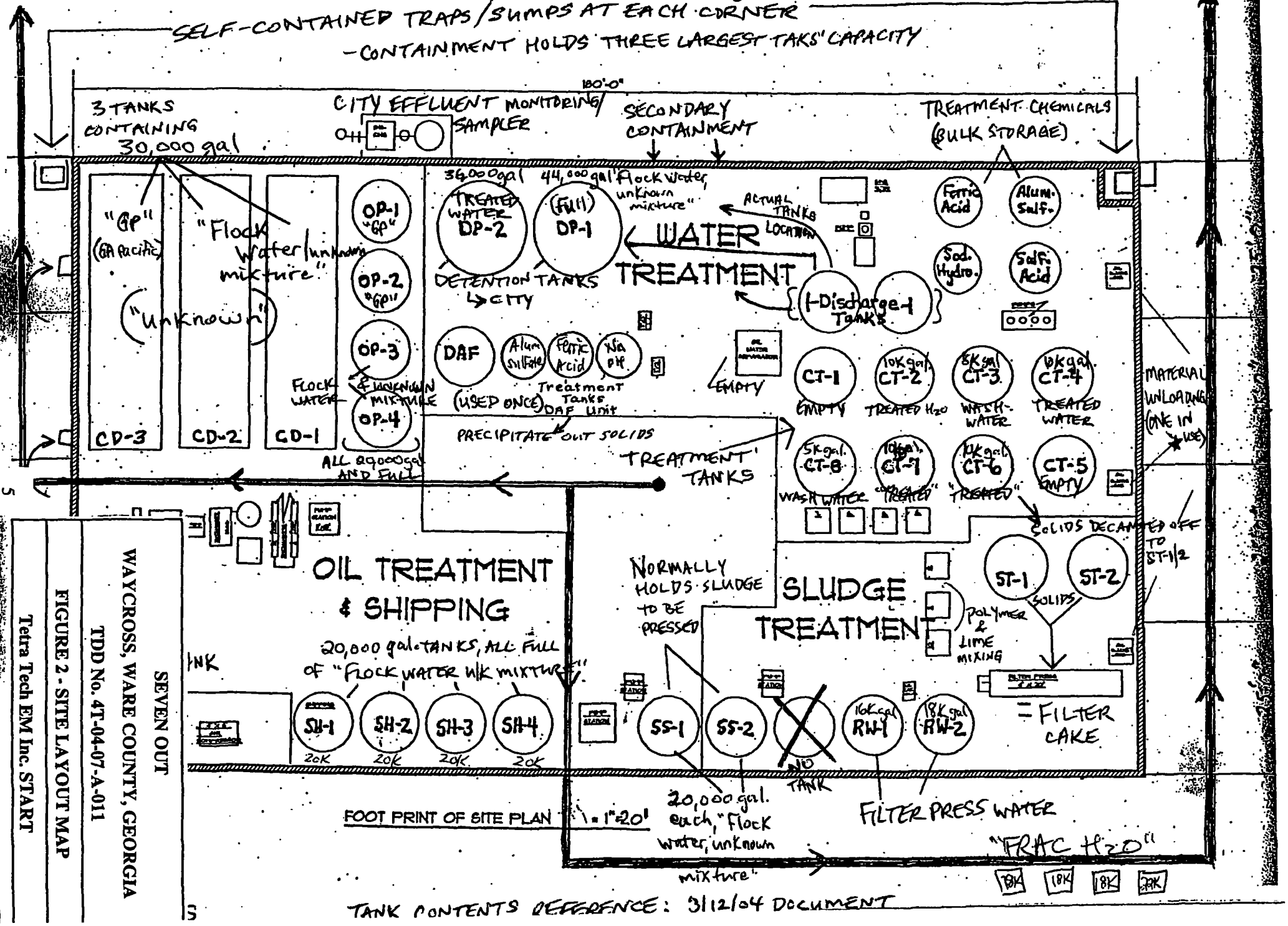
SEVEN OUT
WAYCROSS, WARE COUNTY, GEORGIA
TDD No. 4T-04-07-A-011

FIGURE 1 - FACILITY LOCATION MAP

Tetra Tech EM Inc. START

Figure 2. Evacuation Site Plan

SOURCE:



SEVEN OUT

WAYCROSS, WARE COUNTY, GEORGIA

TDD No. 4T-04-07-A-011

FIGURE 2 - SITE LAYOUT MAP

Tetra Tech EM Inc. START

TABLE 1

SAMPLING PLAN

Sample Number	Sample Type/Matrix	Location	Rationale
SO- 1to 40- w/tank identifier	Grab/Sludge wastewater or LNAPL	Tank Specific	Determine presence of hazardous substances
SO- 1 to 5 - w/tank identifier	Grab/Sludge	Tank Specific	Determine presence of hazardous substances

Notes: SO - Seven Out, LLC Site
LNAPL - Light Non-Aqueous Phase Liquid Sample

TABLE 2

QUALITY ASSURANCE AND QUALITY CONTROL SAMPLING PLAN

Sample Number	Quality Control Sample Type	Rationale
SO-WB-01	Water trip blank	Determine if site conditions or sample handling procedures are influencing sample results
SO-RB-01	Equipment rinsate blank	Determine if decontamination procedures adequately clean equipment
SO-XX-XX	MS/MSD	Provide information about the effect of each sample matrix on the sample preparation procedures and the measurement methodology
SO-XX-XX	Field Duplicate	Measure both field and laboratory precision

Notes:
- SD - Seven Out Site
- WB - Water blank
- RB - Rinsate blank
- MS/MSD - Matrix spike/matrix spike duplicate

TABLE 3

ANALYTICAL METHODOLOGY, REQUIRED SAMPLE CONTAINERS, AND PRESERVATIVES

Matrix	Analysis	Method	Sample Container	Preservative
Sludge	TCLP	1311/6010B	4 oz Glass	Cool to 4 °C
Sludge	TAL Metals	6010B/7471A	8 oz Glass	Cool to 4 °C
Sludge	TAL Volatiles	8260B	8 oz Glass	Cool to 4 °C
Sludge	TAL Semi-Volatiles	8270C	8 oz Glass	Cool to 4 °C
Waste Water	TAL Metals	6010B/7471A	2 - 1 Liter Poly	Cool to 4 °C
Waste Water	TAL Volatiles	8260B	2 - 40ml	Cool to 4 °C
Waste Water	TAL Semi-Volatiles	8270C	1 Liter Amber Glass	Cool to 4 °C

Notes:
EPA - U.S. Environmental Protection Agency
TCLP - Total
°C - Degree Celsius
oz - Ounce
ml - Milliliter

SESD Region 4 EISOPQAM, the CLP SOWs for Inorganic Analysis, the CLP National Functional Guidelines for Inorganic Data Review, the Region 4 Data Validation SOP for CLP Routine Analytical Services, Revision 2.1, and the Region 4 Analytical Support Branch Laboratory Operations and Quality Assurance Manual (Refs.1; 2; 3; 4; 5; 6; and 7, as appropriate).

Tetra Tech will collect a total of 40 waste sludge/wastewater samples from the tanks on site. Tetra Tech will visually survey the tank contents using collection methods to include sludge judges, disposable bailers, and Bacon bomb sampling devices. Access to the tanks will be gained through the use of a 45 foot articulating man-lift and conventional ladders. Air monitoring will be conducted around the tanks prior to sampling activities.

All sludge and wastewater samples will be collected and placed on ice in accordance with the EPA SESD Region 4 EISOPQAM (Ref. 1). The sample collection strategy is subject to change based on the observed characteristics of the tank contents or at the discretion of the EPA on-scene coordinator (OSC).

REFERENCES

1. U.S. Environmental Protection Agency, Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), May 1996, Includes 1997 Revisions.

2. U.S. Environmental Protection Agency, Contract Laboratory Program Statement of Work for Organics Analysis, OLM04.2a, May 1999, with contract modifications.

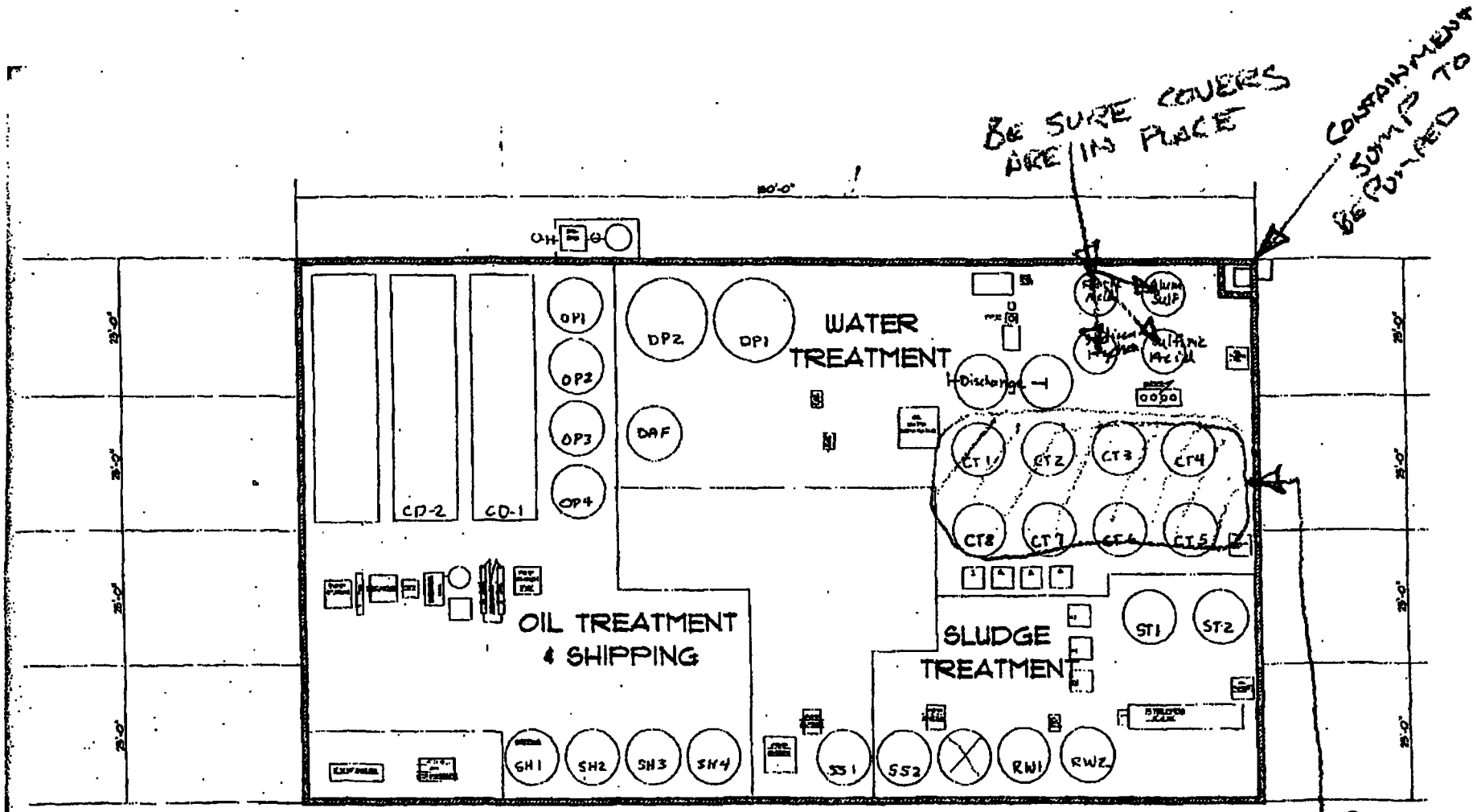
3. U.S. Environmental Protection Agency, Contract Laboratory Program Statement of Work for Inorganics Analysis, ILM04.1, January 2000.

4. U.S. Environmental Protection Agency, Contract Laboratory Program National Functional Guidelines for Organic Data Review, EPA 540/R-99/008, October 1999.

5. U.S. Environmental Protection Agency, Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, EPA 540/R-94/013, February 1994.

6. U.S. Environmental Protection Agency, Region 4, SESD, Data Validation Standard Operating Procedures for Contract Laboratory Program Routine Analytical Services, Revision 2.1, July 1999.

7. U.S. Environmental Protection Agency, SESD Region 4, Analytical Support Branch Laboratory Operations and Quality Assurance Manual, July 1, 2001.



FOOT PRINT OF SITE PLAN = 1'-20'

OP1		RW1		CT 6	
OP2		RW2		CT 7	
OP3		ST 1		CT 8	
DP4		ST 2		DP 1	
SH 1		CT 1		DP 2	
SH 2		CT 2		CD 1	
SH 3		CT 3			
SH 4		CT 4			
SS 1					

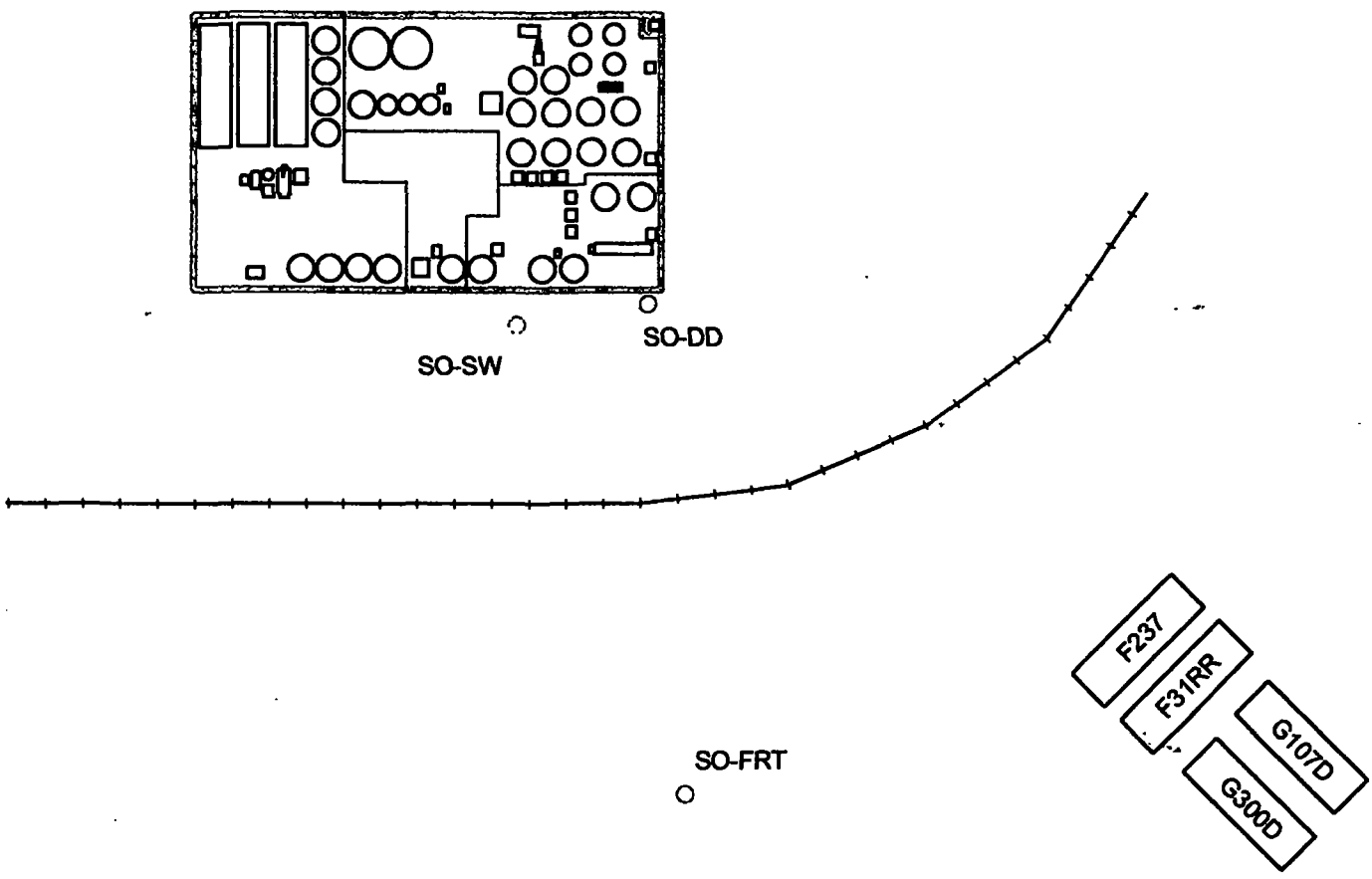
~~AREAS OF CONCERN~~
TO PUMP DOWN ENOUGH TO STOP OVERFLOWING

BAKER

BAKER

BAKER

BAKER



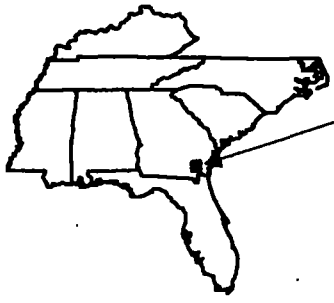
LEGENG

○ Soil sample

▭ FRAC Tank

NOT TO SCALE

SO-BG is the background soil sample and was sampled off site.
The sample location is not depicted on this figure

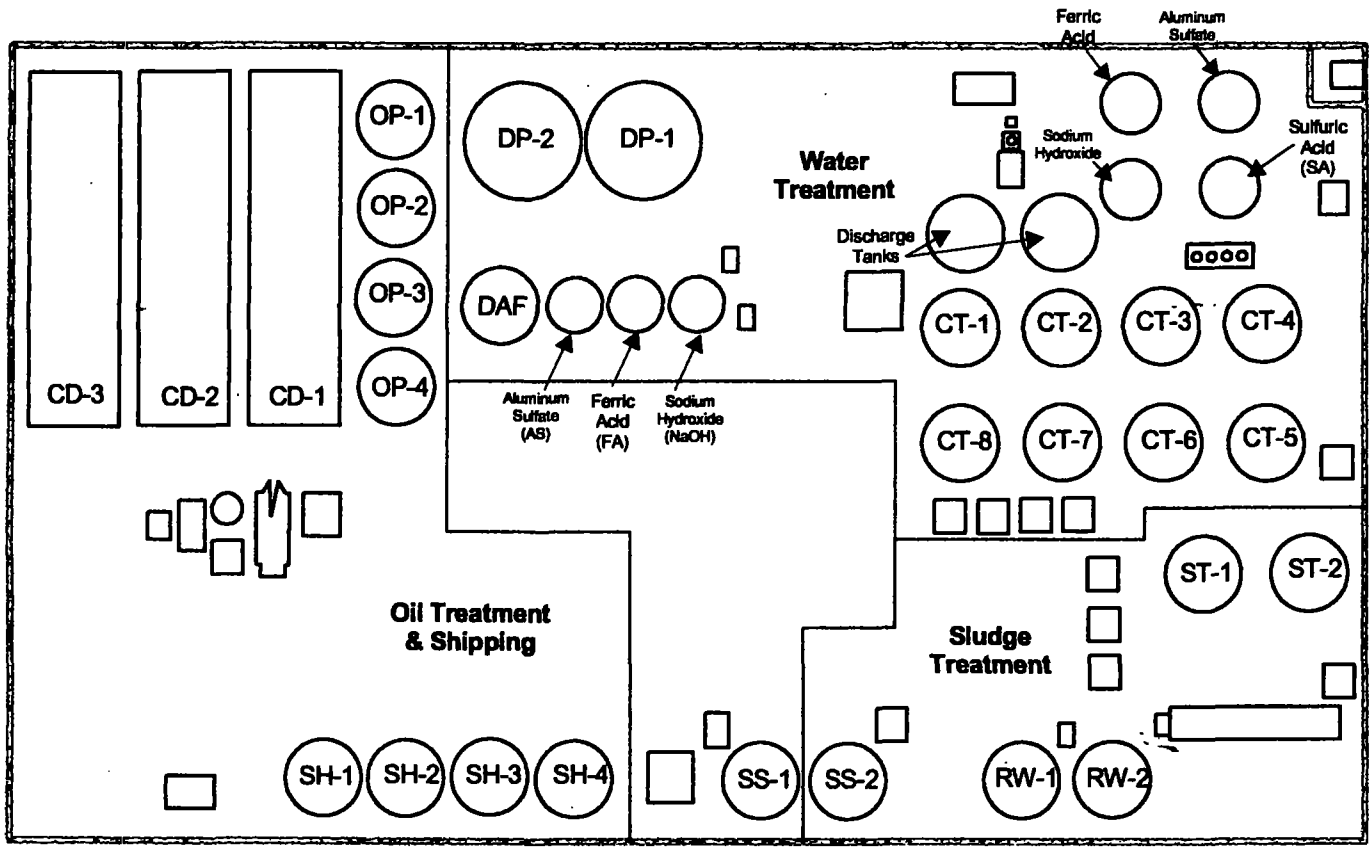


Waycross, Ware County
Georgia

SEVEN OUT
WAYCROSS, WARE COUNTY, GEORGIA
TDD No. 4T-04-07-A-011

FIGURE 3 - FRAC TANKS
AND SOIL SAMPLE LOCATIONS

Tetra Tech EM Inc.



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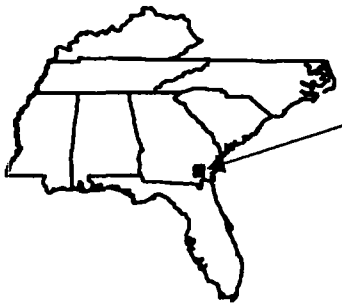


SEVEN OUT, LLC SITE
WAYCROSS, WARE COUNTY, GEORGIA
TDD No. 4T-04-07-A-011

FIGURE 2
FACILITY LAYOUT MAP

Tetra Tech EM Inc.

Reference 4

(4)

Georgia Department of Natural Resources

2 Martin Luther King, Jr. Drive, S.E., Suite 1154, Atlanta, Georgia 30334-9000
Noel Holcomb, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
404/656-2833

June 20, 2006

TRIP REPORT

SITE NAME & LOCATION:	Seven Out LLC Tank (BCX, Inc.) 901 Francis Street Waycross, GA 31503 EPA ID # GAN000407811
TRIP BY:	Edwin L. Williams EW Advanced Geologist
OFFICIALS CONTACTED:	None
DATE OF TRIP:	June 15-16, 2006
REFERENCES:	Georgia Hazardous Waste Management Act Georgia Hazardous Waste Management Rules Comprehensive Environmental Response and Liability Act (CERCLA) Seven Out LLC Tank Preliminary Assessment (PA)

COMMENTS:

I arrived at the above listed address at 12:30 a.m. on June 15, 2005. The temperature was in the high 80s to low 90s and there was a slightly overcast sky. The purpose of the trip was to conduct a Visual Site Inspection (VSI) of the subject site and surrounding areas and to evaluate the soil exposure, air pathway, and surface water migration pathway from the site as part of a Site Investigation (SI) to be performed at the site later in the year. Having been involved with the Preliminary Assessment (PA) for this site, I was quite familiar with the facility.

Prior to the VSI, a review of tax records indicated that the site was multiple parcels, specifically 901 Francis Street, 903 Francis Street, and 3 Folks Street. These parcels were all connected via gravel drives or paved streets.

The 901 Francis Street parcel was completely secured. Except for the locked front and side doors, the parcel was surrounded by a locked fence. The parcel consisted of two separate buildings, made of either brick or stone. The primary building housed the former offices of the Seven Out LLC business and was also a storage facility. The former storage portion of the building was only the shell of a building with no windows or doors in place. This portion of the building was without a roof. A secondary building, that resembled a brick multi-bay garage was located on the opposite side of the parcel. According to records, it had been a waste storage facility. At the time of the VSI, these buildings were primarily empty. Access into the yard that joined the two buildings of the parcel could not be obtained due to the locked gate. A visual inspection from outside the fence noted that there was very little material within the fenced parcel. The parcel was abandoned except for a car that was inside the fenced area.

The 903 Francis Street parcel (assumed to be 903, since there was no address) included a small building that was apparently the office for the tank farm/treatment plant at 3 Folks Street. This small building was locked.

The 3 Folks Street parcel (just east of the 901 Francis Street parcel) was the site of the treatment plant, the primary function of Seven Out LLC. The parcel was unsecured and was accessible from Folks Street (on the east), Francis Street (on the north) and McDonald Street (on the west). The parcel includes a concrete paved area with a concrete bermed area within the concrete paved area. Parts of the concrete area were unlined parking areas. A small building was located at the edge of the concrete parking area. This apparently was the tank farm office. Numerous vertical and horizontal above ground storage tanks were located within the bermed area. For the amount of capacity of the tanks, the bermed area appeared quite inadequate to contain multiple failures of the tank system. Rainwater was also collected in the bermed area, especially on the northeast side and corner. It appeared that the bermed area was not poured on level ground and that the area sloped to the north, causing some of the collected rainwater to overflow the bermed area. Obviously, a release of liquid wastes from one of the tanks would also pool up in this area and possibly overflow the berm. In this area, I observed an abandoned rail line that ran between the tank farm property and the adjacent property (The Sports Shop). The tank farm included more than 30 large capacity waste-containing and product-containing tanks. These tanks were separated into three process categories: water treatment, sludge treatment, and oil treatment and shipping. Some of the tanks had labeling that indicated they were for used oil, sludge, ferric acid, aluminum sulfate, sodium hydroxide, or sulfuric acid. At the time of the VSI, no releases were observed from the tank farm containers. Using a roll-o-tape, the size of the tank farm/treatment plant was measured to be about 100' X 180'. Along the back edge of the secondary containment was a narrow drainage ditch. Along the edge of the drainage ditch and secondary containment, contaminated soil was observed. The contaminated soil had been covered with what appeared to be sawdust or mulch, which was also stained.

A pipeline went from the secondary containment of the tank farm, overhead above a gravel road to a pump station on the tank farm side of the CSX rail tracks. Evidently, wastes were taken from tank cars and pumped to the treatment plant. Because there was no siding for the tank cars, it is not clear if trains actually stopped to allow wastes to be pumped from them or if this pump station was just placed there to appear that they received wastes from tank cars. The gravel road connected the 901 Francis Street parcel to the termination of McDonald Street to the 3 Folks Street parcel to the termination of Folks Street. A locked gate, owned by CSX Railway was at the terminus of Folks Street.

With no fence attached to the locked gate, I proceeded around the locked gate onto the CSX property. The CSX property was the site of the CSX switchyard for Waycross. At this point, the road was Glenmore Avenue. About 50 feet onto CSX property was a recently cleared and newly graveled area. This is was area where frac/Baker tanks had been stored. Some of the tanks were used by Seven Out to store wastes for processing. Some of the other tanks had been stored there during the EPA removal to store liquid wastes that had been overflowing at the tank farm. Prior to EPA's activities at the Seven Out facility, there had been a spillage of wastes from one of the Seven Out frac tanks on the property. Near the vicinity where the frac tanks had been was a long abandoned loading dock. This dock was accessible by rail traffic from the opposite side. At the time of the VSI, no tanks or wastes were observed on the property.

Having been to the facility before, I proceeded west parallel to the rail lines, following the previously determined drainage pathway. Along the rail line, I observed two additional abandoned rail lines on the south side of the primary line. I also observed another abandoned loading dock that would have been originally serviceable by one of the two abandoned lines. The pathway proceeded west along a drainage ditch next to the railway. Culverts transported runoff from rainfalls under the tracks and along the drainage ditch. The drainage ditch extended behind the properties that fronted on Francis Street. At the intersection of Georgia Spur 38 (S. Nicholls Street) and the railway the drainage from the ditch crossed under S. Nicholls Street and proceeded a short distance to its intersection with an unnamed tributary. At this same intersection, I observed large above ground fuel tanks, belonging to C & M Oil Company. Any runoff from this facility would have emptied into the drainage ditch prior to its emptying into the unnamed tributary. I have viewed this tributary during extremely heavy rainfall and during a time period of minimal rainfall. At both times, this tributary was constantly flowing. This point would be the Probable Point of Entry (PPE) for the Surface Water Pathway. Standing on the bridge rail crossing of the unnamed tributary, I observed additional above ground storage tanks to the south. I returned to S. Nicholls Street and walked south to its intersection with Margaret Street. At the termination of Margaret Street was an abandoned BP fuel tank farm. Because this tank farm was located on a hill overlooking the unnamed tributary, any runoff from this facility would drain into the unnamed tributary. None of the available local residents nearby could tell me when the BP facility had closed down.

I then proceeded north on S. Nicholls Street to the Francis Street intersection. At this intersection was the Waycross Coca Cola Bottling Company. Well data had indicated that this facility had a water well. I proceeded inside to ask management about the status of the well. A conversation with the manager on the following day determined that the well was no longer in use and had not been in use for many years. The well had been completed in the deep aquifer.

I then proceeded back to the 901 Francis Street parcel. I observed that the parcel between 801 Francis Street (The Sport Store) and 901 Francis Street was a vacant lot. Sanborn Fire Insurance Maps that had been viewed prior to the VSI indicated that this site was formerly the Gillon Machine Shop and Foundry. The site was entirely grassed over and no remnants of any foundations were visible on the vacant lot. Two water oak trees were observed on the southwest corner of the lot and were measured to be 11 feet in circumference, hoping to be able to obtain a date on how long the trees may have been growing there so as to give a time frame on the demolition of the foundry.

I then proceeded to the Sports Shop to inquire for permission from the owner, Mr. Bennie James, to take samples along the back of his property where the secondary containment had overflowed. I spoke with Mr. James the following day. He gave verbal permission for sampling on his property. He also stated that the Seven Out company had initiated the purchase of his business, making a down payment, and signing a purchase agreement. However, Seven Out had never paid him for the business and he had not pursued the matter, because he really wasn't interested in moving. I thanked Mr. James for his time and left the area.

I proceeded by car to track the surface water migration pathway from the PPE downstream. The unnamed tributary flows along a ditch for a few blocks. This unnamed tributary flows through a residential area, a small city-block size park and behind the First Christian Church

At the intersection of Folks Street and Isabella Street, the unnamed tributary flows underground into the City of Waycross's underground stormwater drainage system. The unnamed stream continues underground until it intersects the City of Waycross Drainage Canal near the intersection of Lee Street and U.S. Highway 84. From here, the City of Waycross Drainage Canal travels northeast, crossing under U.S. Highway 82/Ga. 38 on two occasions before flowing southeast to its confluence with the Satilla River, east of the U.S. 82/Ga. 38 crossing of the Satilla River. The Drainage Canal flows through several residential areas and public parks on its migration to the Satilla River. The Drainage Canal flows near the Waycross District Office of the Georgia Dept. of Natural Resources Game and Fish Office. On the following day, a technician with the Fisheries Management Branch stated that fishing for consumption from the Drainage Canal is not known to occur. He stated that some recreational fishing by children is done, but they have no knowledge that the children take their catch home to eat. The technician continued to state that there are bucketsitters (those who catch fish, keep them in the bucket that they sit on for later consumption) along the Satilla River.

I continued following the Drainage Canal to an area behind Capt. Joe's Seafood Restaurant at 2010 Plant Avenue (U.S. 82/Ga. 38) that was cleared of debris and overgrowth. I proceeded to walk back to the Drainage Canal behind the facility and observed bass and bream swimming in the water. A barking dog on the other side of the canal caused an older gentleman to see me. He approached from the other side of the canal and we spoke across the canal for a few minutes. He stated that his grandkids fish in the canal but that the fish aren't fit to eat because of all of the pollution that is in the canal from the City of Waycross. He did state that the condition of the canal was much better that it was several years ago when there weren't any fish in the canal at all.

About 1/8 mile northeast on U.S. 82/Ga. 38, the canal crossing under the roadway and continues to its discharge into the Satilla River. I proceeded northeast on the highway to its overpass of the Satilla River. There I pulled off the highway and walked down to the river. The river was shallow with minimal flow, however, I did see some bream swimming in the water. The area along the bank and under the bridge had many blue bait (worm) containers laying around, indicating that upstream of the Waycross Drainage Canal's discharge to the Satilla River was a place frequented by fishermen. No wetlands were observed along the pathway of the Drainage Canal until it crossed under the U.S. 82/Ga. 38 for its final northeast run to the Satilla River. Just northeast of that intersection, is a small wetland. A little further northeast, just prior to its confluence with the Satilla River, is a larger wetland. On the northwest side of that wetland is a sewer disposal facility. Due to the lack of accessibility to the Satilla River from this point to the termination of the 15-mile migration pathway, no further tracing of the pathway was completed.

I completed the fieldwork and returned to the hotel at 5:30 pm.

RECOMMENDATIONS:

Verify property owners for the vacant property between 901 and 801 Francis Street. Verify property owner address for CSX parcel behind 3 Folks Street.

PHOTOGRAPH: 45

SAMPLES: None

REVIEWED BY:

s:rdrive\eddie\CERCLA\SIS\SevenOutSI Site Recon Trip Report.doc.

U.S. EPA REGION IV

SDMS

Unscannable Material Target Sheet

DocID: 10508638 Site ID: GAD000407811

Site Name: Seven Out LLC Tank

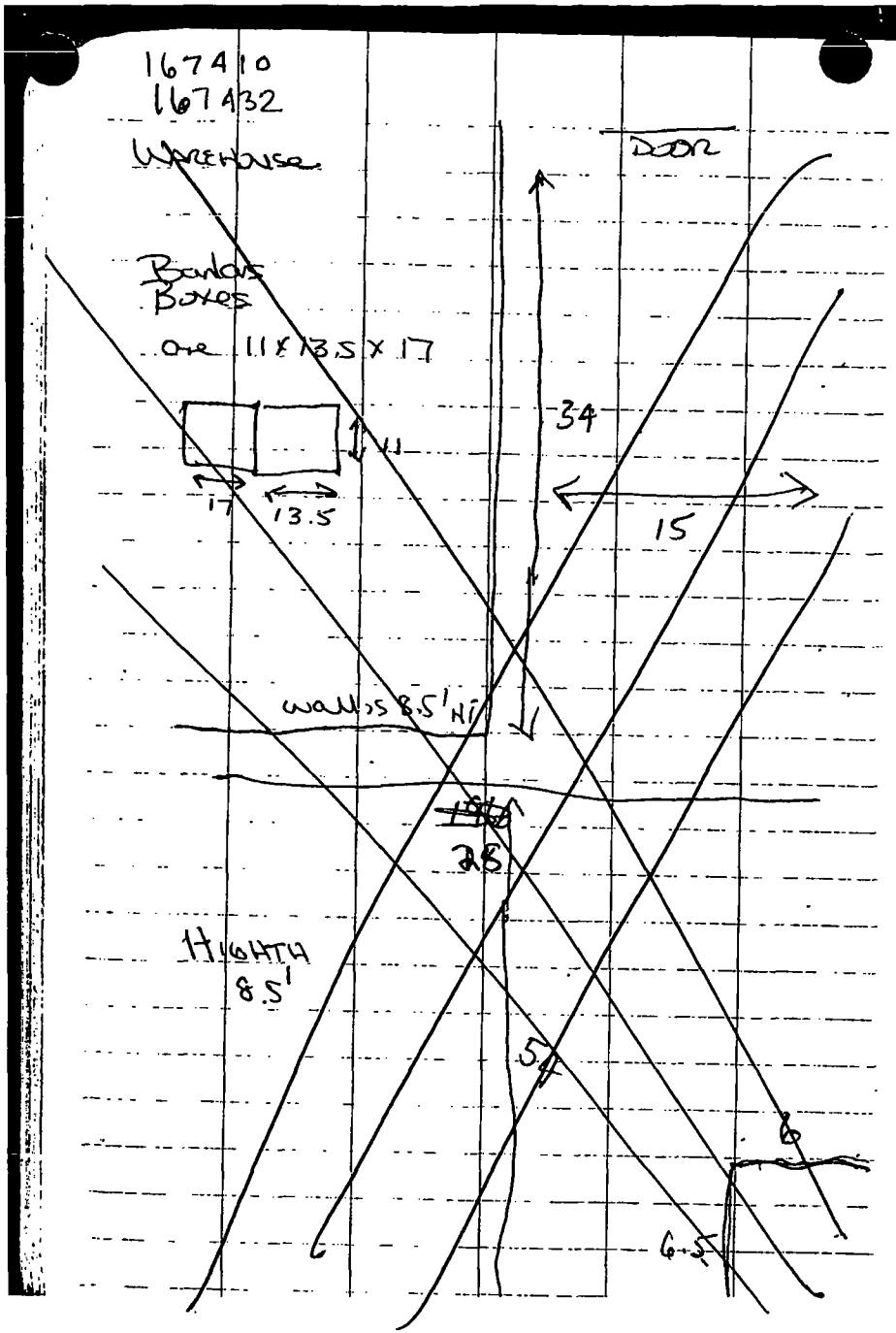
Nature of Material:

Map:		Computer Disks:	
Photos:	✓	CD-ROM:	
Blueprints:		Oversized Report:	
Slides:		Log Book:	

Other (describe):

Amount of material:

Please contact the appropriate Records Center to view the material.



ITEMS TO EVALUATE FOR SEVEN OUT LLC

1. Remaining wastes in all tanks
2. Tank dimensions / capacities
3. Square footage of contaminated soil areas
4. Capacity of waste in ditches
5. Location of ditch contribution sample
6. Locations of other soil samples
7. Locations of groundwater samples
8. Identify footprint of foundry if possible
9. Surface Water Attribution Samples & Background samples
10. Evaluate integrity asphalt & concrete pad
11. Look for evidence of fishing in SATILLA RIVER including consumption

Seven Out LLC Site Rec. 12:30 pm 6/15/06
leaving site @ 3:05 to check SW Portion

12. Ask about time Coca Cola changed buildings 1955
13. Ask about Coca Cola water supply well - no longer used
14. List of Local Drillers
15. Check w/ Local DNR office on Fishing

Front Door 901 (Coke Bldg)
31 12 28.2
82 21 52.0

Phil DeMarco 912/550-9478

Back Gate of Coke Bldg.
31 12 26.9
82 21 51.5

Tank Farm @ SH-3 & SH-4
31 12 26.6
82 21 48.7

Free Tank Area

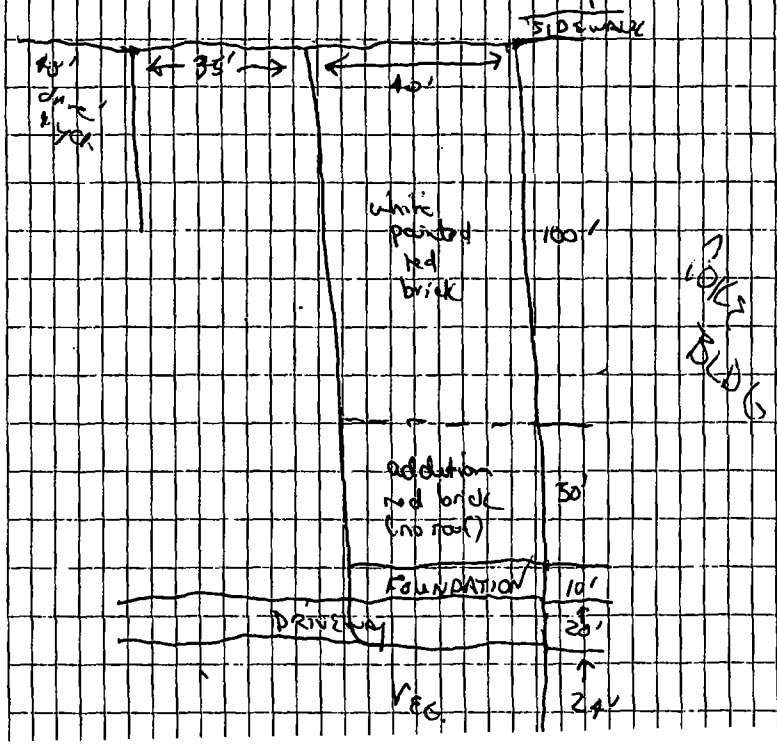
63 x 53 x 180 x 50 x 123 (lowered) (inner area)

Center of Old Foundry
31 12 27.6
82 21 50.2

Secondary Containment
99' x 182'

Contaminated soil next to tank farm
22 49' x 51'

Drainage Ditch
300' (behind tank farm)
220' (behind coca cola bldg



Soil sample b/w Sportshop & Tank Farm

31 12 27.1
82 21 47.5

Soil Sample backside of Tank Farm S.C.

31 12 25.8
82 21 47.8

Soil Sample at rail line pipe hook-up

31 12 25.4
82 21 48.3

Soil Sample @ front tank

31 12 24.2
82 21 46.4

Upgradient Ditch sw/sed Sample

31 12 25.2
82 21 46.5

Ditch Soil/sw/sed Sample

31 12 25.2
82 21 48.3

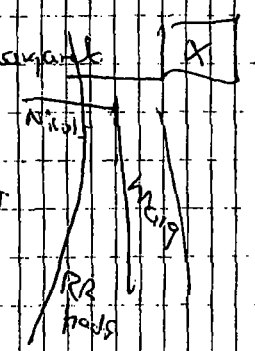
Storm Drain Outfall behind factory

31 12 25.3
82 21 51.2

Sw/Sed Backg. - Near CSX Rail behind current Coca-Cola Btlg Co. (culvert)

31 12 28.8
82 22 02.1

CSM oil & Nicolls & Marquette



Soil @ Culvert in Parking Lot

31 12 26.2
82 21 51.0

water oak is 11' circumf.

SVS Pathway goes underground behind
1st Christian Church at Corner of Folkston
Isabella

WAY	Newman Drilling Co.	912/285-9379
NAY	Mosic Drilling Co. Inc.	283-0530
Patterson	Daniels Well Drilling	449-6004
Blackshear	Larry Altman Drilling	285-2524
	Thrift Well Drilling	285-8874

Newman 3" Shallow
4"+ Large Deep.
Daniels 4"+ Deep

Waycross Coca-Cola	283-3525
GA DNR Fisheries	285-6094
~~Tax Commissioner~~	~~800 Carol St.~~
Board of Assessors	215 Oak Street
Ware County Bldg. Mnt.	315 Oak Street 287-4480
Ware County Police Dept.	201 State St. 287-4335
Public Works	3649 Harris Rd.
(Roads & Vehicle	287-4404/06

Ware County Sheriff's Office	3487 Harris Rd
Jail & C.I.	287-4326

Ware County Bd. Education
1801 Bailey St. 283-8656
Print Shop 287-2305

Transportation/Garage 287-2318/19
1870 W. Wacona Dr

Maintenance 287-2303
1301 Bailey St.

Waycross City of
Bldg Mnt, Traffic Eng. Dept. Memorial Stad. 287-2939
City Garage 714 Pendergast St. 287-2963
Police Dept. 512 Oak St. 287-2921
Public Works 417 Pendleton St. 287-2955

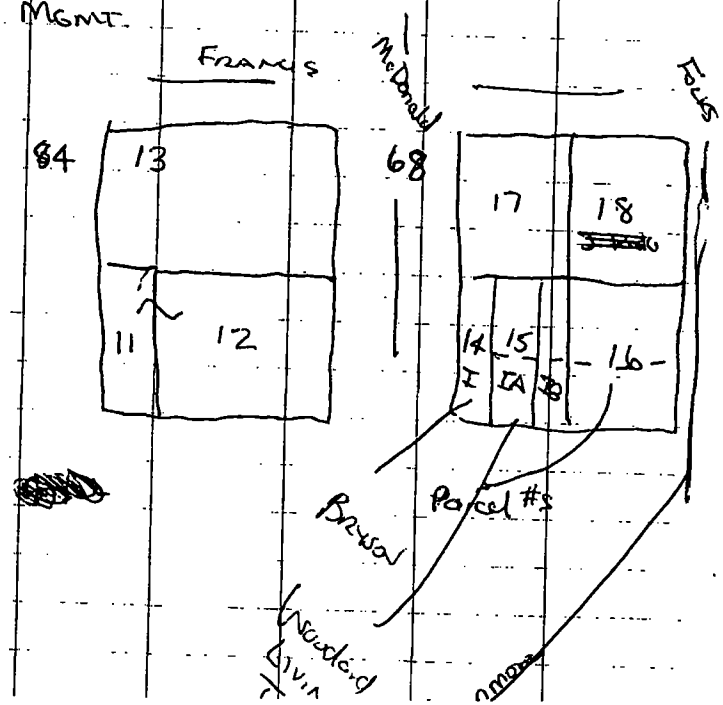
Waycross College
2001 S. GA. Pkwy 285-6133

C&M Oil Co 201 S. Nicholls St. 283-8008
Baptist Village Retirement Communities

Drainage Canal cuts under 82
just north of Ricardo St / Plant Ave
intersection

One branch crosses 82 just
South of Capt. Joes

Bucket Sitters on ~~Stoney Branch~~ N of SATILLA
none of drainage canal
Chad Sexton - Technician w/ Fisheries
Mgmt.



NA 11-06-010 .46 acres

0 Folks St.

Seven out WA11-06-012 ✓ .46 acres

0 Francis St.

WA11-06-009 ✓ .87 acres

901 Francis Street

WA11-06-010 ✓ .46 acres

WA11-06-020 .25 acres

903 Francis

Altman, Larry 300' residential wells
placement (above mpcem)

810 Elizabeth St.
Ray Harris 30'-40' 912/285-4998

2786 Seminole Trail 900' away
Irene Crawford 20-40'

Timberlin
20'

6/20/06 10:18

Shallow 60' screened 40-60'
Unconfined 150-200' to 300'
Deep 400-500' Floridan

Mault well drilling

Reference 5

eTrex Vista C

Product Images

Package Includes:

- eTrex Vista C
- One basemap below:
  - Americas: Americas Recreational
  - Europe: Atlantic Recreational
  - Australia: Pacific Recreational
- MapSource® Trip & Waypoint Manager CD
- PC/USB interface cable
- Wrist strap
- Quick reference guide
- Owner's manual

WAAS enabled BlueChart compatible Geocaching ready

The eTrex Vista® C is Garmin's exciting, new, pocket-sized handheld that brings color, automatic routing, longer battery life, plus more to our popular-selling eTrex Vista. You won't miss a thing when you take this colorful, lightweight, easy-to-use handheld out hiking, biking, boating or even geocaching. The eTrex Vista C along with the eTrex Legend C are Garmin's smallest, least expensive products to combine a color TFT display and advanced GPS routing capabilities in a waterproof design.

In addition to its distinguishing features — barometric altimeter and electronic compass — outdoor enthusiasts will love the latest improvements made to the eTrex Vista C:

- 256-color, sunlight-readable display makes it easy to distinguish map details and see where you're going
- Automatic route generation, off-route recalculation, turn-by-turn directions with alert tones, and icon-driven menus for finding points of interest (when combined with Garmin's optional MapSource® CDs) navigate you safely to your destination
- Longer battery life for more hours of outdoor enjoyment
- Mini-USB port for fast, convenient download of map data from Garmin's entire library of optional MapSource CDs using a PC

Of course the eTrex Vista C still includes those popular features that users have come to love and expect in the eTrex product line, such as a compact, lightweight, waterproof design and user-friendly interface. It is WAAS-enabled, and like all eTrex units, the primary controls are oriented on the side of the unit, so the user can conveniently operate it with one hand. Also, an innovative rocker switch is located on the face of the unit that enables the user to input data easily, scroll through menus, or pan the map page.

Garmin part number: 010-00368-00

Suggested Retail Price:
$374.99 U.S.D. (for domestic US market only)

eTrex Family Quick Links

eTrex
eTrex Camo
eTrex Summit
eTrex Venture
eTrex Legend
eTrex Vista
eTrex Legend C

eTrex Family Showcase

Which eTrex is right for you? View 360 images and compare features. Launch Showcase

*requires flash player

eTrex Extras

Product Comparison

MapSource Compatibility

Garmin Recommends:
Select MapSource Product
Go

* denotes limitations

4

8/3/2005

Reference 6

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 017
Property Address:	0 FOLKS-FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$8,200.00

Ownership

Owner:	BRYSON ANTHONY A
Mailing Address:	405 MAGNOLIA ST WAYCROSS GA 31501

Legal Description
FOLKS-FRANCIS ST B68 L2

Basic Residential
No Data Available

Land

Acres:	0
Total Depth:	100
Front Feet:	100
Sq Feet:	0
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
9/30/1997	$0.00	BRYSON ANOHONY A	ZACHRY R B JR

(6)

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 014
Property Address:	0 FOLKS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$9,575.00

Ownership

Owner:	BRYSON ANTHONY A
Mailing Address:	405 MAGNOLIA ST WAYCROSS GA 315013428

Gena Miles
912/338-9191

Legal Description
FOLKS ST B68 L1

Basic Residential
No Data Available

Land

Acres:	0
Total Depth:	32
Front Feet:	100
Sq Feet:	0
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
9/30/97	$30,000.00	BRYSON ANTHONY A	UNKNOWN

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 010
Property Address:	0 FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$6,500.00

Ownership

Owner:	SEVEN OUT LLC A FLORIDA LC COMPANY
Mailing Address:	1859 E ADAMS STREET JACKSONVILLE FL 32202

Legal Description
FRANCIS ST B84 L1

Basic Residential
No Data Available

Land	
Acres:	0.46
Total Depth:	200
Front Feet:	100
Sq Feet:	20000
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
3/7/00	$0.00	RAULERSON WADE	HARRELL L B
5/2/02	$125,000.00	STRINGER RONALD A	RAULERSON WADE
12/5/02	$0.00	SEVEN OUT LLC A FLORIDA LC COMPANY	STRINGER RONALD A

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 020
Property Address:	903 FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$6,500.00

Ownership

Owner:	SEVEN OUT LLC A FLORIDA LL COMPANY
Mailing Address:	1859 E ADAMS STREET JACKSONVILLE FL 32202

Legal Description
FRANCIS ST 903 B128

Basic Residential
No Data Available

Land	
Acres:	0.28
Total Depth:	200
Front Feet:	60
Sq Feet:	12000
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
3/7/00	$6,500.00	RAULERSON WADE	HARRELL L B
5/2/02	$0.00	STRINGER RONALD A	RAULERSON WADE
12/5/02	$0.00	SEVEN OUT LLC A FLORIDA LL COMPANY	STRINGER RONALD A

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 009
Property Address:	901 FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$191,373.00

Ownership

Owner:	SEVEN OUT LLC A FLORIDA LC COMPANY
Mailing Address:	1859 E ADAMS STREET JACKSONVILLE FL 32202

Legal Description
FRANCIS ST 901 B128 LA

Basic Residential
No Data Available

Land

Acres:	0.87
Total Depth:	201
Front Feet:	188
Sq Feet:	37788
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
6/12/85	$43,000.00		
7/15/85	$53,000.00		
7/16/96	$0.00	RAULERSON W WADE	
7/29/96	$0.00	RAULERSON W WADE	WAYCROSS WARE CO DEV
2/22/02	$0.00	RAULERSON W WADE	RAULERSON W WADE
		SEVEN OUT LLC A	RAULERSON W

5/2/02	$0.00	FLORIDA LC COMPANY	WADE
12/5/02	$250,000.00	SEVEN OUT LLC A FLORIDA LC COMPANY	SEVEN OUT LLC A FLORIDA LC COM

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 013
Property Address:	801 FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$48,370.00

Ownership

Owner:	JAMES BENNIE T
Mailing Address:	P O BOX 715 WAYCROSS GA 31502

Legal Description
FRANCIS ST 801 B84 L2

Basic Residential
No Data Available

Land Acres:	0
Total Depth:	100
Front Feet:	200
Sq Feet:	0
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
4/23/86	$43,333.00		
8/21/02	$0.00	BENNETT T JAMES	WAYCROSS WARE COUNTY DEV AUTHORITY
1/29/03	$65,000.00	CARDEN FERRELL J	BENNETT T JAMES

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 016
Property Address:	611 FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$1,969.00

Ownership

Owner:	WOODARD LIVING TRUST
Mailing Address:	1315 HOUK DR WAYCROSS GA 31503

Lawrence Woodard
912/283-8739
1:00

Legal Description
FRANCIS ST 611 B68 L6-8

Basic Residential
No Data Available

Land	
Acres:	0
Total Depth:	165
Front Feet:	100
Sq Feet:	0
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
8/1/82	$0.00		
12/26/86	$5,000.00		
1/10/90	$2,000.00	WOODARD LAWRENCE	
1/16/01	$0.00	WODOARD LIVING TRUST	WOODARD LAWRENCE
10/26/01	$0.00	WOODARD LIVING TRUST	WODOARD LIVING TRUST

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 017
Property Address:	0 FOLKS-FRANCIS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$8,200.00

Ownership

Owner:	BRYSON ANTHONY A
Mailing Address:	405 MAGNOLIA ST WAYCROSS GA 31501

Legal Description
FOLKS-FRANCIS ST B68 L2

Basic Residential
No Data Available

Land

Acres:	0
Total Depth:	100
Front Feet:	100
Sq Feet:	0
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
9/30/97	$0.00	BRYSON ANOHONY A	ZACHRY R B JR

WARE COUNTY
Georgia

Real Property

BASE INFORMATION

- Base
- Residential
- Sales
- Other Improvements

Parcel

Parcel ID:	WA1106 012
Property Address:	0 FOLKS ST
Zoning Code:	Commercial
Tax District:	02 - City
Home Exempt:	S0 - No Homestead Exemption
Value:	$16,801.00

Ownership

Owner:	SEVEN OUT LLC
Mailing Address:	1859 E ADAMS ST JACKSONVILLE FL 32202

Legal Description
FOLKS ST #3 B84 L3,4

Basic Residential
No Data Available

Land

Acres:	0.46
Total Depth:	200
Front Feet:	100
Sq Feet:	20000
Lots:	0

Most Recent Sales(s)

Date	Amount	Grantee	Grantor
12/3/97	$14,500.00	BRYSON ANTHONY ALLEN	LOTT JOHN E
9/8/00	$25,000.00	BCX INC	BRYSON ANTHONY ALLEN
4/3/02	$30,000.00	SEVEN OUT LLC	BCX INC

Reference 7

7

Basic Search

Precision Search

Browse Search

Results:
1 matches

Record:
1 of 1

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Title Sanborn fire insurance maps

Author Georgia. Dept. of Natural Resources. Historic Preservation Division.

Published Atlanta, GA

Issue Aug. 1998

Notes 2 pages in 1 PDF file

UGA Call# GA
N200.H5
M1
1998
S2

Your search: key: s-ga-bn200-ph5-bm1-b1998-bs2

KEY

Fireproof construction (Fire resistive const'n)

Adobe building.

Stone building.

Concrete, lime, cinder or cement brick

Hollow concrete or cement block const'n

Concrete or reinforced concrete const'n

Tile building.

Brick building with frame cornice.

" " " stone front.

" " " frame side. (Divided by fire partition)

Brick veneered building.

" and frame building.

Frame building, brick lined.

" " metal clad.

Frame building.

Iron building.

Tenant building occupied by various manufacturing or occupancies

Frame building covered with asbestos

Brick building with brick or metal cornice.

Fire wall 6 inches above roof.

" " 12 " " "

" " 18 " " "

" " 36 " " "

Figures 8, 12, 16 indicate thickness of wall in inches.

Wall without opening and size in inches.

Wall with openings on floors as designated.

Opening with single iron or tin clad door.

" " double iron " " " doors.

" " standard fire doors.

Openings with wired glass doors.

Drive or passage way.

Stable.

Auto House or private garage.

Solid brick with interior walls of C.B. or C.B. and brick mixed.

Mixed construction of C.B. and brick with one wall of solid brick.

Mixed construction of C.B. and brick with one wall faced with 4" brick.

Mixed construction of C.B. and brick throughout.

Window openings in first story.

Window openings in second and third stories.

Window openings in second and fourth stories.

Windows with wired glass.

Windows with iron or tin clad shutters.

Window openings in third to twenty-second stories.

Open elevator.

Frame enclosed elevator.

" " " with traps.

" " " self closing traps.

Concrete block enclosed elevator with traps.

Tile enclosed elevator with self closing traps.

Brick enclosed elev. with wired glass door.

Width of street (out to out of block lines or curb lines)

Iron chimney.

Brick chimney.

Ground elevation.

Vertical steam boiler.

Gasoline tank.

Open under.

Siamese fire dept. connection.

Single fire dept. connection.

Block number.

Vertical pipe or stand pipe.

AFA Automatic fire alarm.

I.E.P. Independent electric plant.

Automatic sprinklers.

Automatic chemical sprinklers.

Automatic sprinklers in part of building only. (Note under sprinklers, portion of building)

Not sprinklered.

Outside vertical pipe on fire escape.

Fire alarm box.

Single hydrant.

D.H. Double "

T.H. Triple "

Q.H. Quadruple hydrant of the "High Pressure Fire Service."

Fire alarm box of the "High Pressure Fire Service."

Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map.

6" H.P. PIPE Water pipes and size in inches.

6" W. PIPE (PRIVATE) Water pipes of private supply.

House numbers shown nearest to buildings are official or actually up on buildings.

Old house numbers shown furthest from buildings.

Reference to adjoining page.

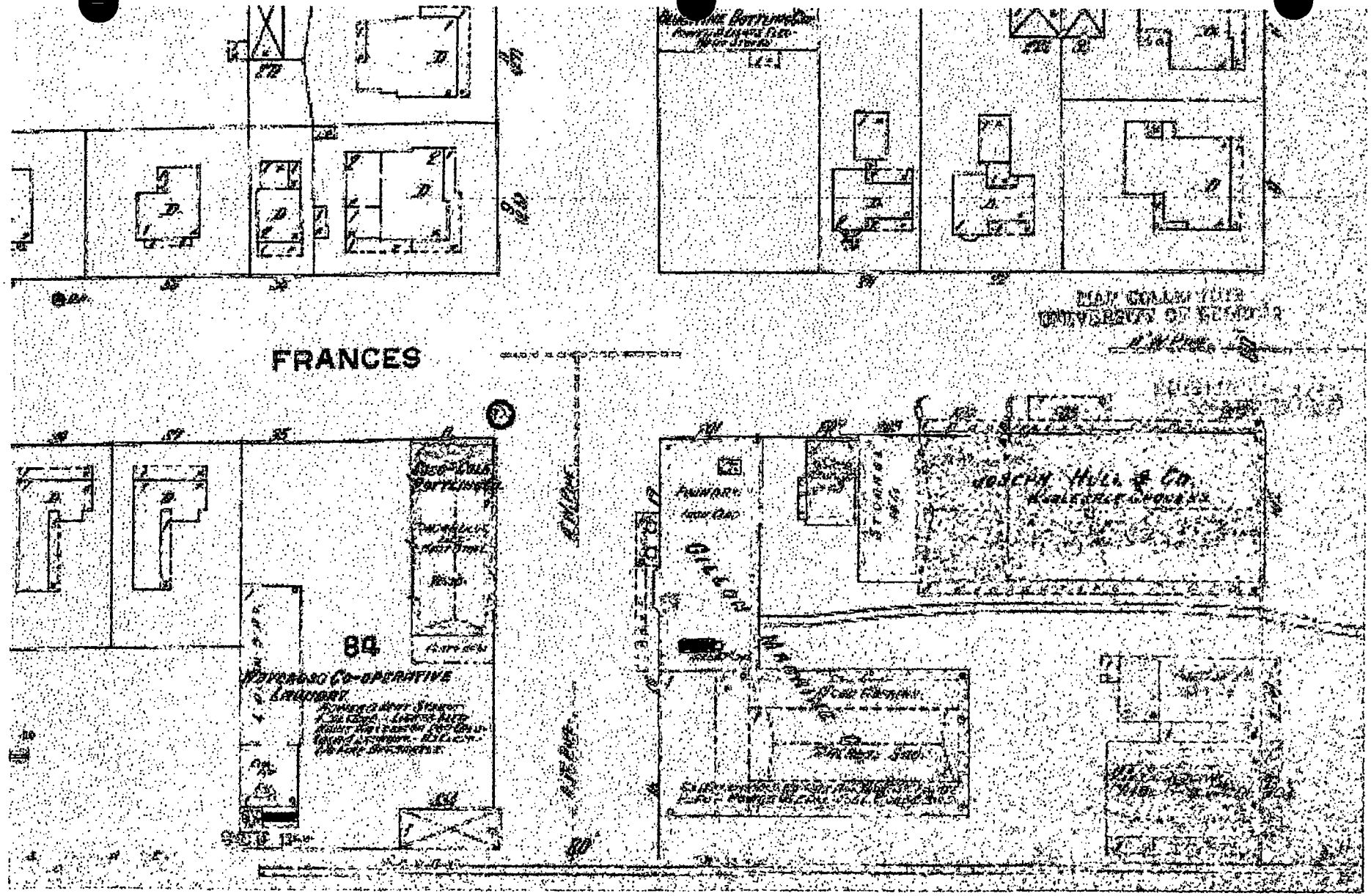
Fire engine house as shown on key map.

Fire pump.

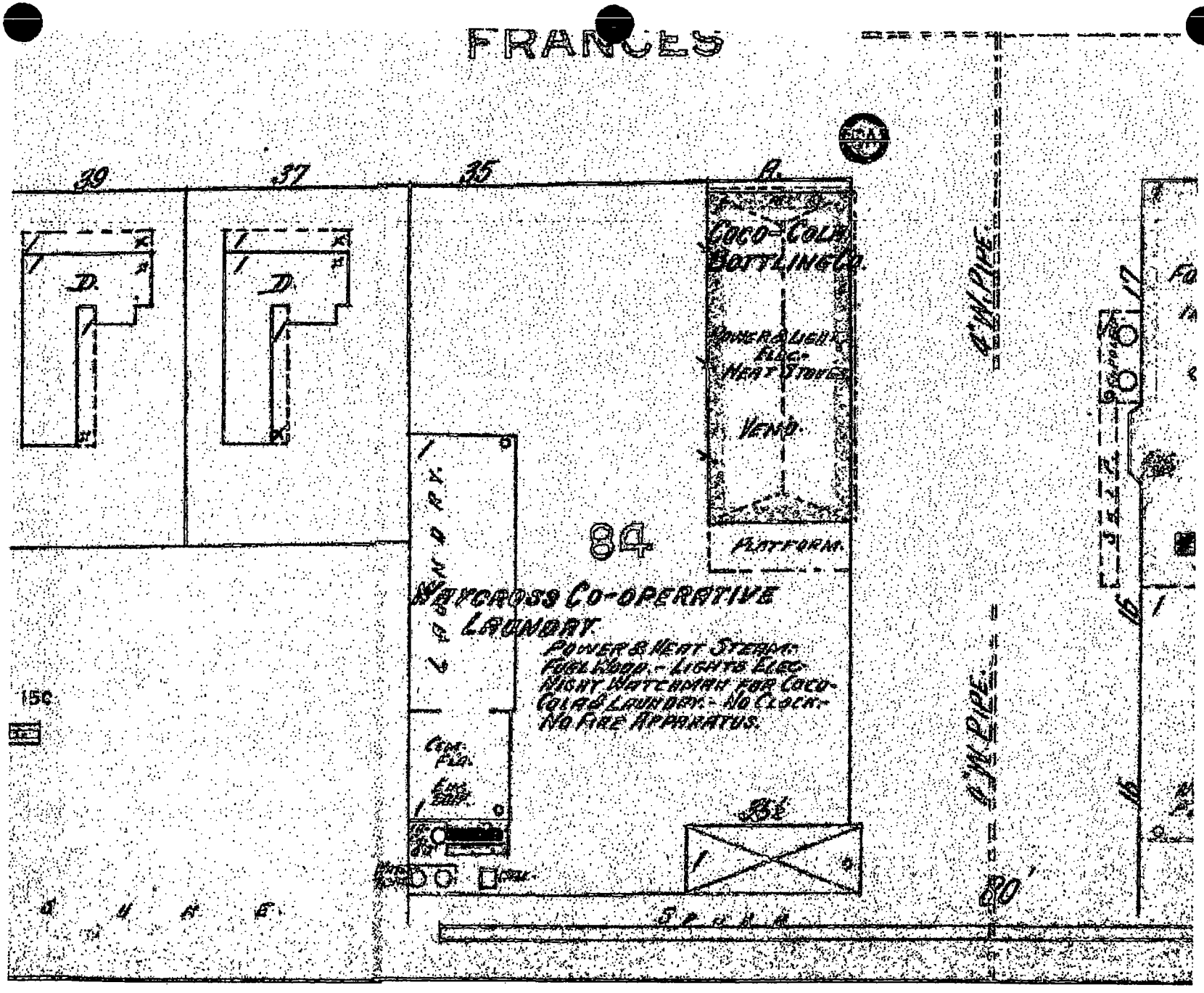
Under page number refers to corresponding page of previous edition.

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS.

FRAMING	FLOORS	ROOF
CODE STRUCTURAL UNIT	CODE STRUCTURAL UNIT	CODE STRUCTURAL UNIT



J.H. Gillon & Co. - Sanborn Fire Insurance Map 1913



Sanborn Fire Insurance Map - Waycross, GA 1913

Reference 8

8

Basic Search

Precision Search

Browse Search

Results:
1 matches

Record:
1 of 1

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Author Georgia. Dept. of Natural Resources. Historic Preservation Division.

Published Atlanta, GA

Issue Aug. 1998

Notes 2 pages in 1 PDF file

UGA Call# GA
N200.H5
M1
1998
S2

Your search: key: s-ga-bn200-ph5-bm1-b1998-bs2

KEY

Fireproof construction. (OR FIRE RESISTIVE CONSTN)

Adobe building.

Stone building.

Concrete, lime, cinder or cement brick.

Hollow concrete or cement block constn.

Concrete or reinforced concrete constn.

Tile building.

Brick building with frame cornice.

" " " slope front.

" " " frame side. (OVERLOOK OVERHANG CONDITION)

Brick veneered building.

" and frame building.

Frame building, brick lined.

" " metal clad.

Frame building.

Iron building.

Tenant building occupied by various manufacturing or occupancies.

Frame building covered with asbestos.

Brick building with brick or metal cornice.

Fire wall 6 inches above roof.

" " 12 " " "

" " 18 " " "

" " 36 " " "

Figures 6, 12, 18 indicate thickness of wall in inches.

Wall without opening and size in inches.

Wall with openings on floors as designated.

Opening with single iron or tin clad door.

" " double iron " " " doors.

" " standard fire doors.

Openings with wired glass doors.

Drive or passage way.

Stable.

Auto House or private garage.

Solid brick with interior walls of C.B. or C.B. and brick mixed.

Mixed construction of C.B. and brick with one wall of solid brick.

Mixed construction of C.B. and brick with one wall faced with 4" brick.

Mixed construction of C.B. and brick throughout.

Window opening in first story.

Window openings in second and third stories.

Window openings in second and fourth stories.

Windows with wired glass.

Windows with iron or tin clad shutters.

Window openings tenth to twenty-second stories.

Open elevator.

Frame enclosed elevator.

" " " with traps.

" " " self closing traps.

Concrete block enclosed elevator with traps.

Tile enclosed elevator with self closing traps.

Brick enclosed elev. with wired glass door.

Width of street. (OUTWARD LOOKING, NOT GROUND LINES)

Iron chimney.

Brick chimney.

Ground elevation.

Vertical steam boiler.

Gasoline tank.

Open under.

Siamese fire dept. connection.

Single fire dept. connection.

Block number.

Vertical pipe or stand pipe.

AFA Automatic fire alarm.

IEP Independent electric plant.

AS Automatic sprinklers.

ACS Automatic chemical sprinklers.

Automatic sprinklers in part of building only. (NOTE UNDER SYMBOL INDICATES DIVISION OF BUILDING)

NS Not sprinklered.

Outside vertical pipe on fire escape.

FA Fire alarm box.

Single hydrant.

D.H. Double "

T.H. Triple "

Q.H. Quadruple hydrant of the "High Pressure Fire Service."

H.P.F.S. FA Fire alarm box of the "High Pressure Fire Service."

H.P.F.S. Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map.

6" W.PIPE Water pipes and size in inches.

6" W.PIPE (PRIVATE) Water pipes of private supply.

2 D House numbers shown nearest to buildings are official or actually up on buildings.

Old house numbers shown furthest from buildings.

24 Reference to adjoining page.

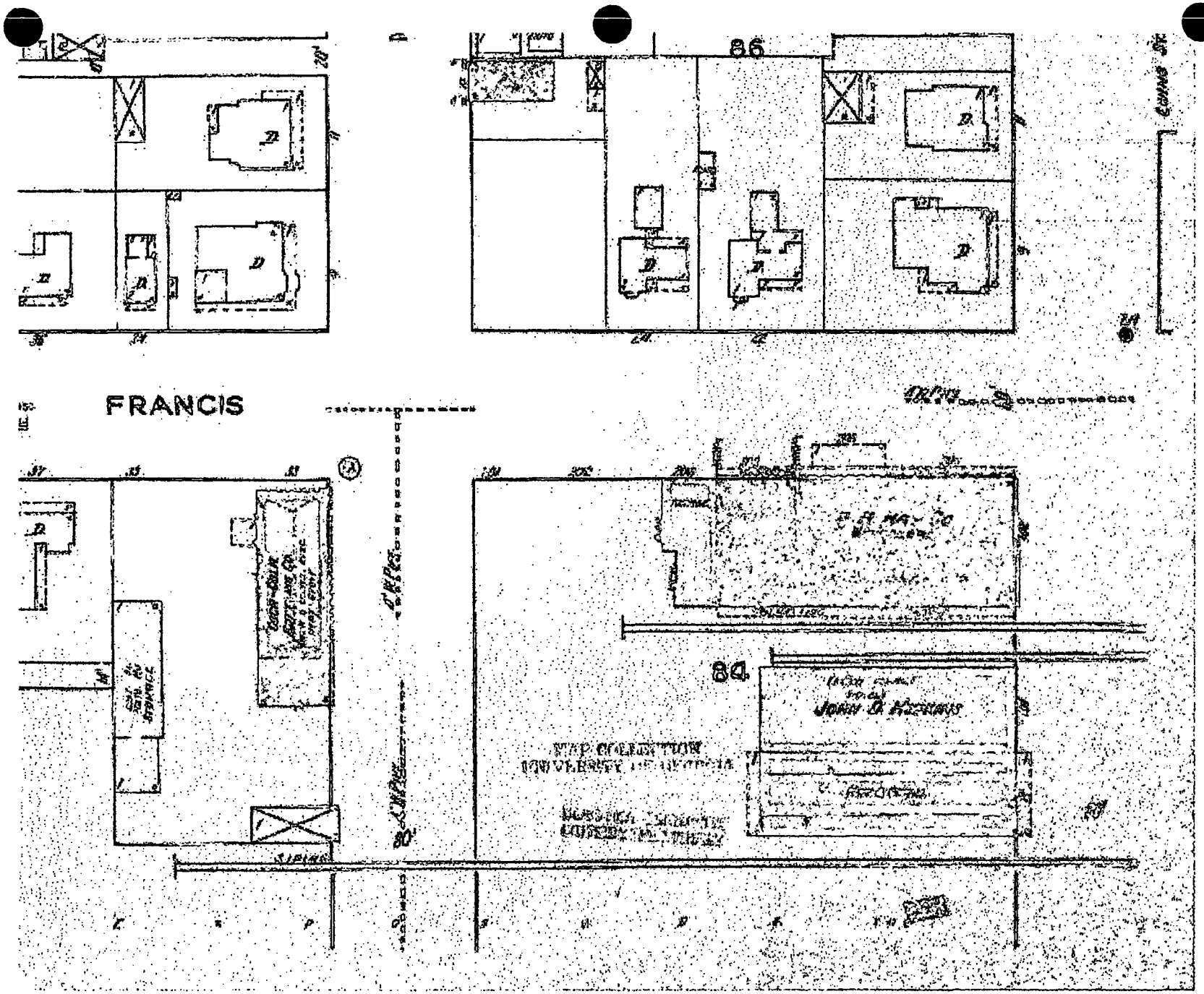
Fire engine house as shown on key map.

Fire pump.

(36) Under page number refers to corresponding page of previous edition.

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS.

FRAMING		FLOORS		ROOF	
CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT



J.H. Gillon & Co. - Sanborn Fire Insurance Map - Waycross, GA 1922

Reference 9

Basic Search

Precision Search

Browse Search

Results:
1 matches

Record:
1 of 1

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Notes 2 pages in 1 PDF file

UGA Call# GA
N200.H5
M1
1998
S2

Your search: key: s-ga-bn200-ph5-bm1-b1998-bs2

KEY

Fire proof construction. (OR FIRE RESISTIVE CONSTN)

ADOBE — Adobe building.

HEIGHT IN FEET FROM GROUND TO ROOF LINE — Stone building.

(C. BR.) — Concrete, lime, cinder or cement brick

(C. B) — Hollow concrete or cement block constn.

(CONC) — Concrete or reinforced concrete constn

(TILE) — Tile building.

NUMBER OF STORIES — Brick building with frame cornice.

" " " stone front.

" " " frame side. (DIVIDED BY FRAME PARTITION)

(VEND) — Brick veneered building.

" and frame building.

FRAME BRICK LINED — Frame building, brick lined.

" " metal clad.

D-DWELLING — Frame building.

A.W.B. AUTOMOBILE — Iron building.

LOFT — Tenant building occupied by various manufacturing or occupancies

(ASB. CL.) — Frame building covered with asbestos

NON COMBUSTIBLE ROOF COVERING OF METAL, GLASS, TILE OR ASBESTOS SHINGLES — Brick building with brick or metal cornice.

DAYLIGHT LIGHTING TOP STORY ONLY — Fire wall 6 inches above roof.

" " 12 " " "

" " 18 " " "

" " 36 " " "

Figures 8, 12, 16 indicate thickness of wall in inches

Wall without opening and size in inches.

Wall with openings on floors as designated.

Opening with single iron or tin clad door.

" " double iron " " " doors.

" " standard fire doors.

WIRED GLASS — Openings with wired glass doors.

WATER TANK

BRICK 16 — Drive or passage way.

Stable.

A. — Auto. House or private garage.

(C. B.) — Solid brick with interior walls of C.B. or C.B. and brick mixed.

(C.B. BR. CONSTN) — Mixed construction of C.B. and brick with one wall of solid brick.

(C.B. BR. CONSTN) (ONE FACED) — Mixed construction of C.B. and brick with one wall faced with 4" brick.

(C.B. BR. CONSTN) — Mixed construction of C.B. and brick throughout.

HANSARD ROOF — DOT GREPRESENT OPENINGS. STEMS INDICATE STORIES, COUNTING FROM LEFT TO RIGHT, LOOKING TOWARD BUILDING.

Window opening in first story.

Window openings in second and third stories.

Window openings in second and fourth stories.

Windows with wired glass.

Windows with iron or tin clad shutters.

Window openings tenth to twenty-second stories.

Width of street (BETWEEN BLOCK LINES, NOT CURB LINES)

E — Open elevator.

FE — Frame enclosed elevator.

ET " " " with traps.

ESC " " " " self closing traps.

CET — Concrete block enclosed elevator with traps.

TESC — Tile enclosed elevator with self closing traps.

BE — Brick enclosed elev. with wired glass door.

Iron chimney

" (WITH SPARK ARRESTOR)

Brick chimney.

15 — Ground elevation.

5 — Block number.

V.H.B. — Vertical steam boiler.

G.T. — Gasoline tank.

(O.U.) — Open under.

Vertical pipe or stand pipe.

AFA — Automatic fire alarm.

IEP — Independent electric plant.

AS — Automatic sprinklers.

ACS — Automatic chemical sprinklers.

A-S — Automatic sprinklers in part of building only. (NOTE UNDER SYMBOL INDICATES PROTECTED PORTION OF BUILDING)

Siamese fire dept. connection

Single fire dept. connection

1ST ONLY

NS — Not sprinklered.

Outside vertical pipe on fire escape.

FA — Fire alarm box.

Single hydrant.

D.H. — Double "

T.H. — Triple "

Q.H. — Quadruple hydrant of the "High Pressure Fire Service."

H.P.F.S. FA — Fire alarm box of the "High Pressure Fire Service"

H.P.F.S. — Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map.

6" W. PIPE — Water pipes and size in inches.

6" W. PIPE (PRIVATE) — Water pipes of private supply

House numbers shown nearest to buildings are official or actually up on buildings. Old house numbers shown furthest from buildings.

24 — Reference to adjoining page.

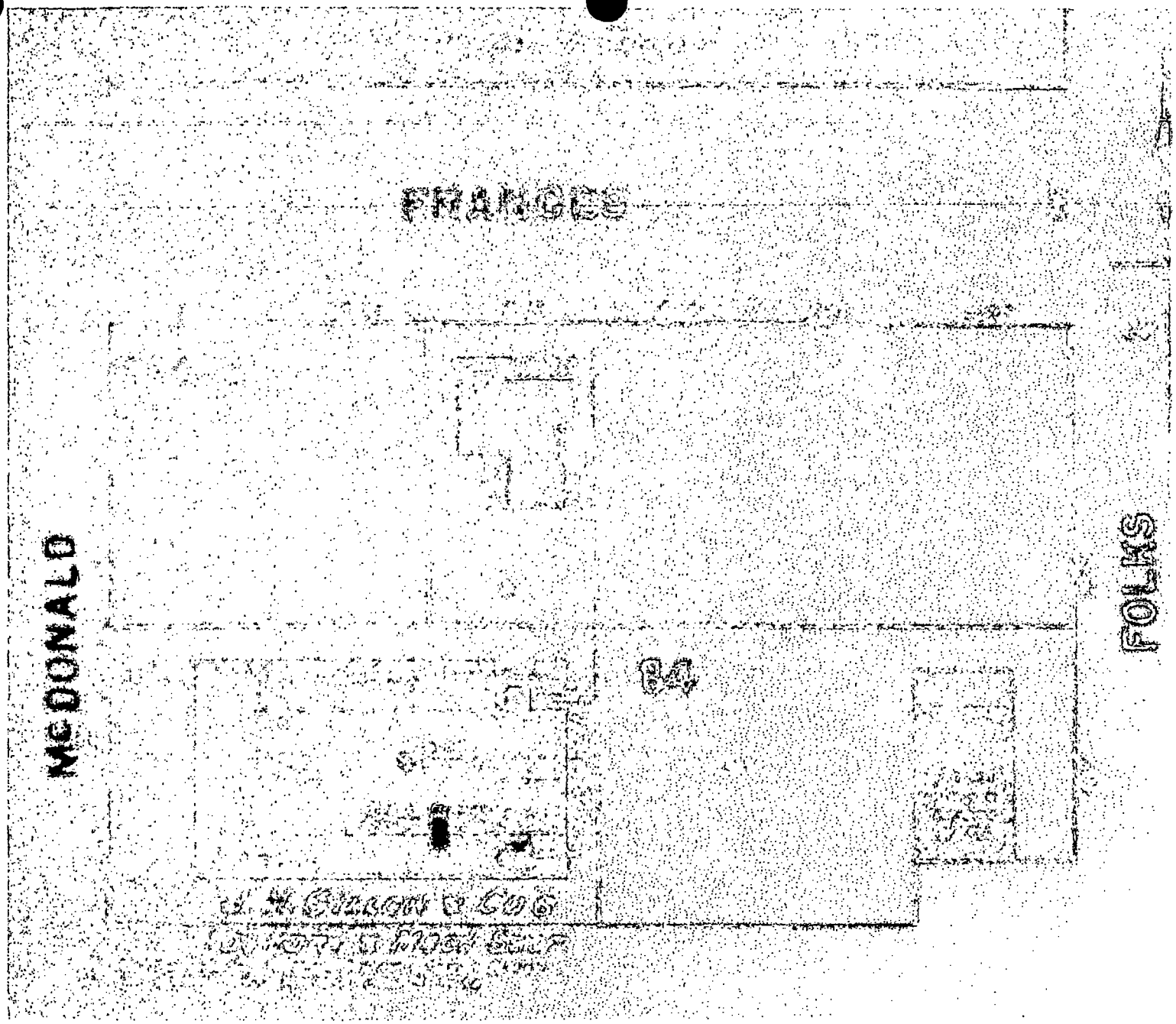
Fire engine house, as shown on key map.

Fire pump.

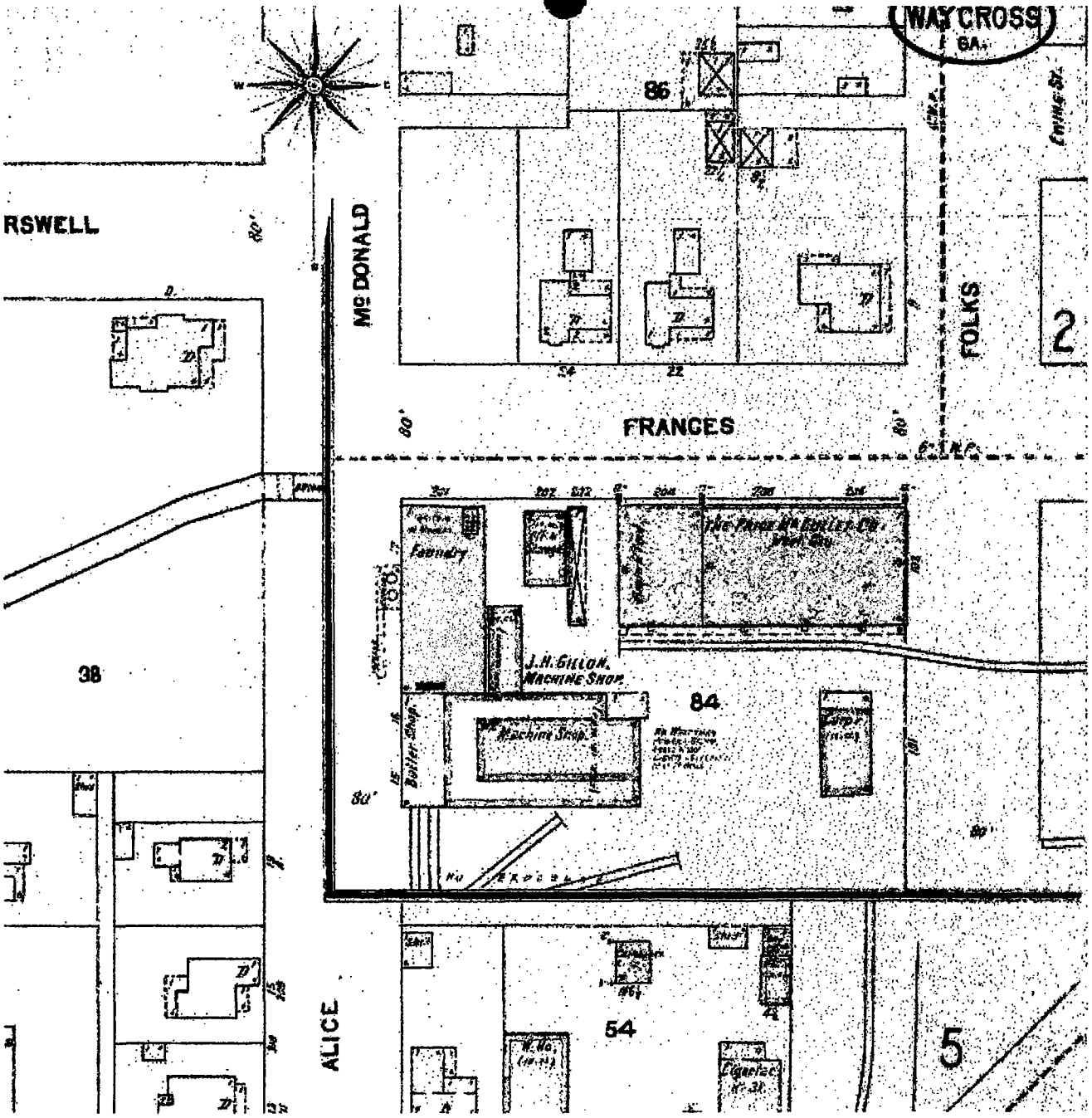
(36) — Under page number refers to corresponding page of previous edition.

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS

FRAMING		FLOORS		ROOF	
CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT



J.H. Gillon & Co. - Sanborn Fire Insurance Map - Waycross, GA 1897



J.H. Gillon & Co. Sanborn Fire Insurance Map – Waycross, GA 1903

Reference 10

10

Basic Search

Precision Search

Browse Search

Results:
1 matches

Record:
1 of 1

GALILEO Express Link

Help

Georgia Government Publications: Citation

Save Results Prev Record Next Record

View Document Images

Title Sanborn fire insurance maps

Author Georgia. Dept. of Natural Resources. Historic Preservation Division.

Published Atlanta, GA

Issue Aug. 1998

Notes 2 pages in 1 PDF file

UGA Call# GA
N200.H5
M1
1998
S2

Your search: key: s-ga-bn200-ph5-bm1-b1998-bs2

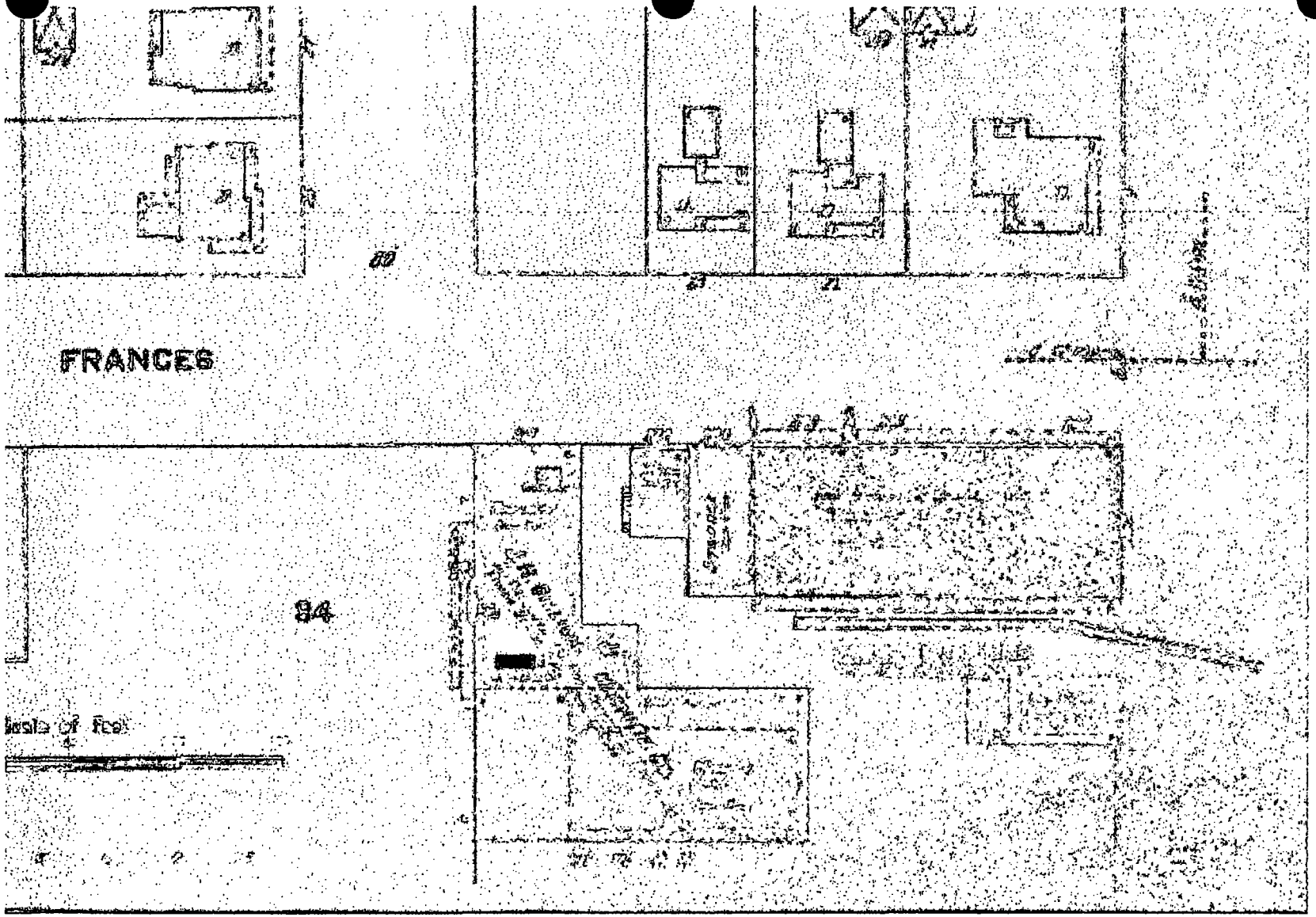
KEY

Fire proof construction (or fire resistive constn)
Adobe building.
Stone building.
Concrete, lime, cinder or cement brick
Hollow concrete or cement block constn
Concrete or reinforced concrete constn
Tile building.
Brick building with frame cornice.
" " stone front, frame side (or wood, or frame partition)
Brick veneered building.
" and frame building.
Frame building brick lined.
" " metal clad.
Frame building.
Iron building.
Tenement building occupied by various manufacturing or occupancies
Frame building covered with asbestos
Brick building with brick or metal cornice
Fire wall 6 inches above roof.
" " 12 " " "
" " 18 " " "
" " 36 " " "
Figures 6, 12, 18 indicate thickness of wall in inches
Wall without opening and size in inches.
Wall with openings on floors as designated.
Opening with single iron or tin clad door.
" " double iron " " doors.
" " standard fire doors.
Openings with wired glass doors.
Drive or passage way.
Stable.
Auto House or private garage.
Solid brick with interior walls of C.B. or C.B. and brick mixed.
Mixed construction of C.B. and brick with one wall of solid brick.
Mixed construction of C.B. and brick with one wall faced with 4" brick.
Mixed construction of C.B. and brick throughout.

Window opening in first story.
Window openings in second and third stories.
Window openings in second and fourth stories.
Windows with wired glass.
Windows with iron or tin clad shutters.
Window openings tenth to twenty-second stories.
Open elevator.
FE Frame enclosed elevator.
" " " with traps.
SE " " " self closing traps.
CE Concrete block enclosed elevator with traps.
TE Tile enclosed elevator with self closing traps.
BE Brick enclosed elev. with wired glass door.
Width of street (or wide street lines, or curb lines)
Iron chimney.
Brick chimney.
(15) Ground elevation.
Vertical steam boiler.
Gasoline tank.
(O.U.) Open under.
Siamese fire dept. connection.
Single fire dept. connection.
5 Block number.
Vertical pipe or stand pipe.
AFA Automatic fire alarms.
I.E.P. Independent electric plant.
(AS) Automatic sprinklers.
(ACS) Automatic chemical sprinklers.
Automatic sprinklers in part of building only (not included in standard rates, or certain portion of building)
(NS) Not sprinklered.
Outside vertical pipe on fire escape.
(FA) Fire alarm box.
Single hydrant.
D.H. Double "
T.H. Triple "
Q.H. Quadruple hydrant of the "High Pressure Fire Service"
H.P.F.S. (FA) Fire alarm box of the "High Pressure Fire Service"
H.P.F.S. Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map.
6" PIPE Water pipes and size in inches.
6" W.PIPE (PRIVATE) Water pipes of private supply.
2 D 9 House numbers shown nearest to buildings are official or actually upon buildings. Old house numbers shown furthest from buildings.
24 Reference to adjoining page.
Fire engine house as shown on key map.
Fire pump.
(36) Under page number refers to corresponding page of previous edition.

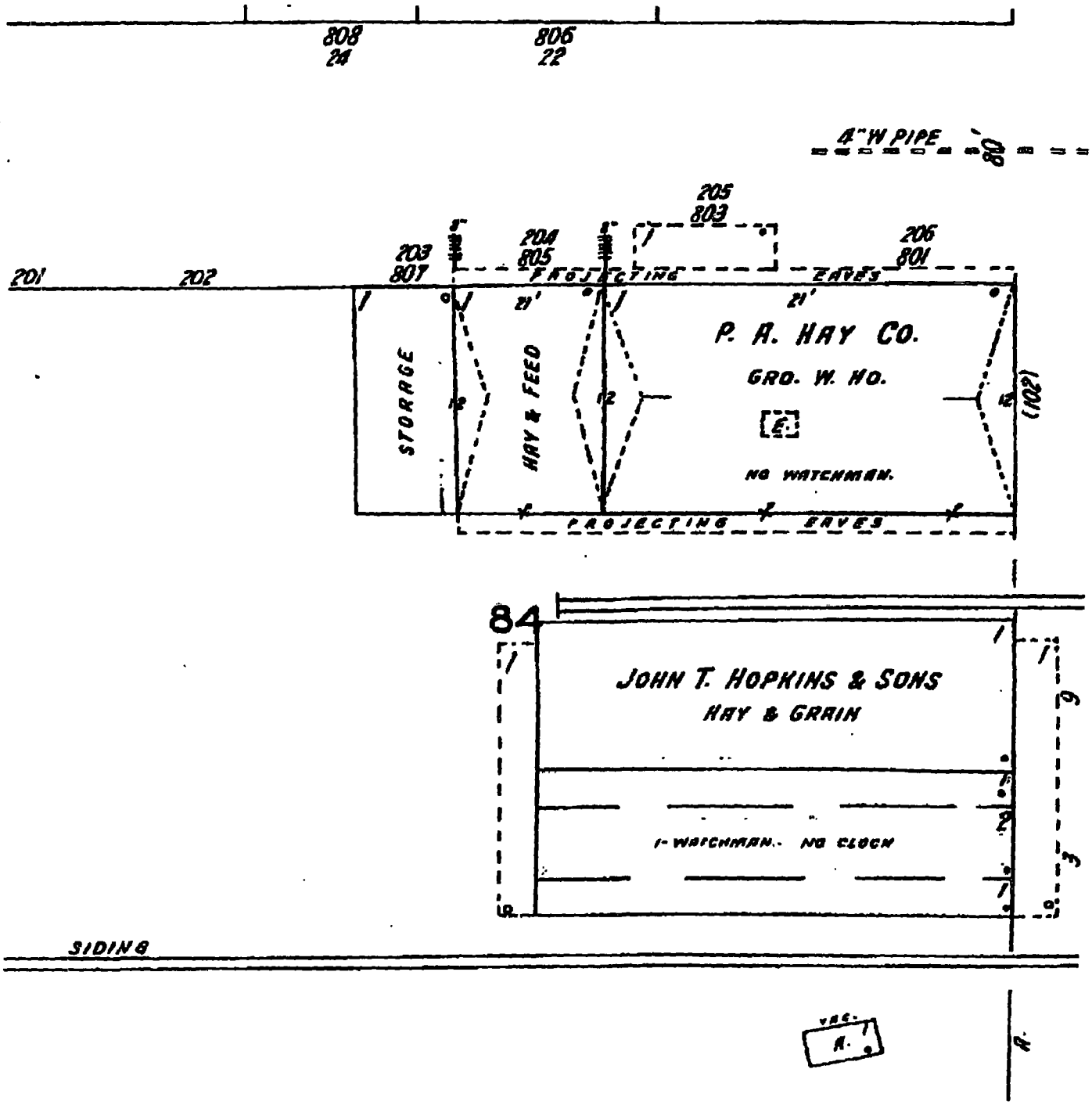
CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS

FRAMING	FLOORS	ROOF
CODE STRUCTURAL UNIT	CODE STRUCTURAL UNIT	CODE STRUCTURAL UNIT



J.H. Gillon & Co. - Sanborn Fire Insurance Map - 1908

Reference 11


808
24
806
22
4" W PIPE
205
803
203
807
204
805
206
801
201
202
PROJECTING EAVES
STORAGE
HAY & FEED
21'
21'
P. A. HAY CO.
GRO. W. HO.
NO WATCHMAN.
(102)
PROJECTING EAVES
84
JOHN T. HOPKINS & SONS
HAY & GRAIN
1-WATCHMAN.- NO CLOCK
SIDING

June 1930

KEY

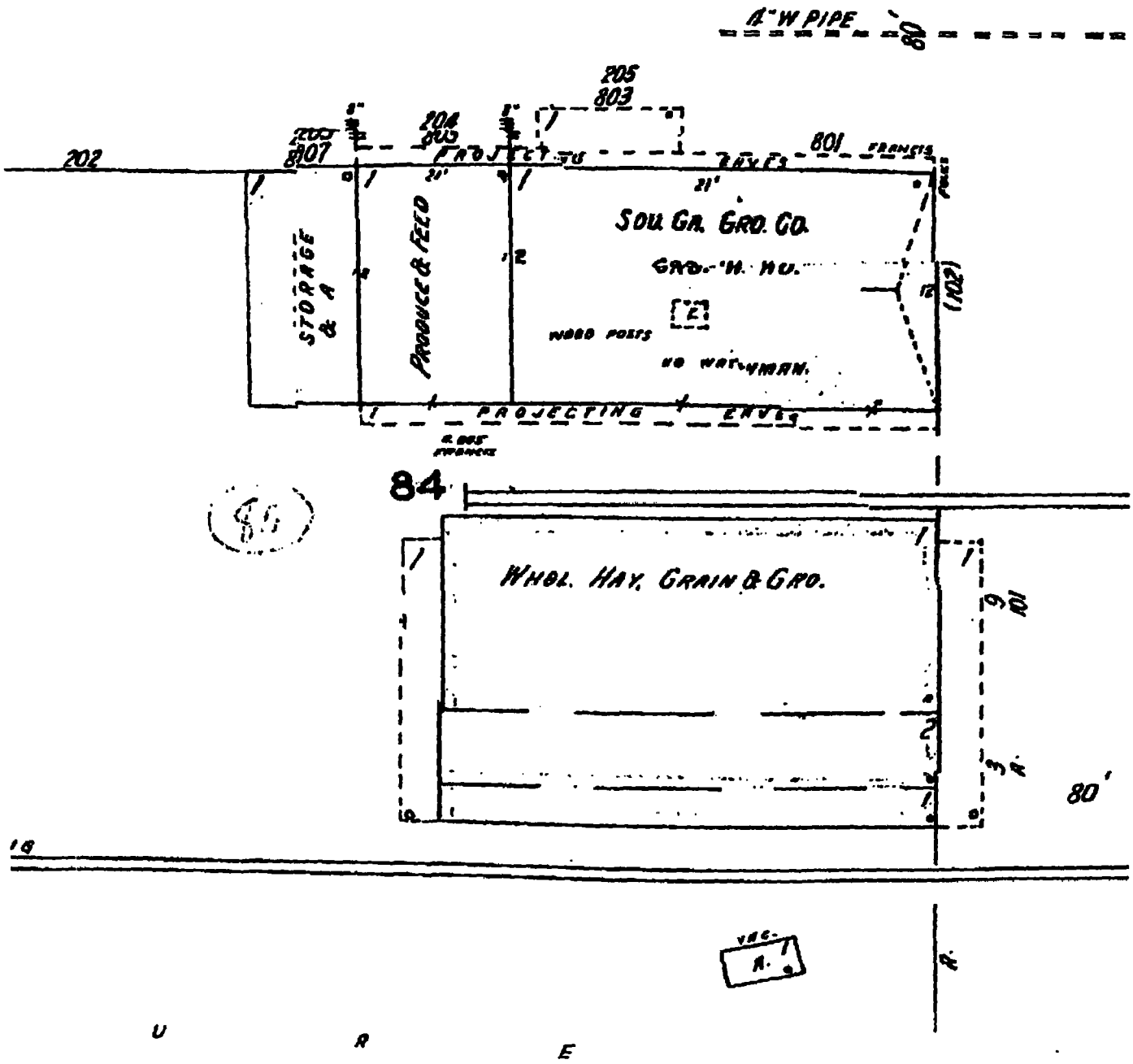
Fire proof construction (or fire resistive construction)
Adobe building.
Stone building.
Concrete, lime, cinder or cement brick
Hollow concrete or cement block constn
Concrete or reinforced concrete constn
Tile building.
Brick building with frame cornice
" " stone front, frame side (divided by dynamic partition)
Brick veneered building.
" and frame building.
Frame building brick lined.
" " metal clad.
Frame building.
Iron building.
Tenant building occupied by various manufacturing or occupancies
Frame building covered with asbestos
Brick building with brick or metal cornice.
Fire wall 8 inches above roof.
" " 12 " " "
" " 18 " " "
" " 36 " " "
Figures 8, 12, 16 indicate thickness of wall in inches
Wall without opening and size in inches.
Wall with openings or doors as designated.
Opening with single iron or tin clad door.
" double iron " " doors.
" " standard fire doors.
Openings with wired glass doors
Drive or passage way.
Stable.
Auto House or private garage.
Solid brick with interior walls of C.B. or C.B. and brick mixed.
Mixed construction of C.B. and brick with one wall of solid brick.
Mixed construction of C.B. and brick with one wall faced with 4" brick.
Mixed construction of C.B. and brick throughout.

Window opening in first story.
Window openings in second and third stories.
Window openings in second and fourth stories.
Windows with wired glass.
Windows with iron or tin clad shutters.
Window openings tenth to twenty-second stories.
Width of street (between block lines, not curb lines)
Open elevator.
Frame enclosed elevator.
" " " with traps.
" " " self closing traps.
Concrete block enclosed elevator with traps.
Tile enclosed elevator with self closing traps.
Brick enclosed elev. with wired glass door.
Iron chimney.
Brick chimney.
Ground elevation.
Block number.
Vertical steam boiler
Vertical pipe or stand pipe.
Gasoline tank.
Open under
AFA Automatic fire alarm.
IEP Independent electric plant.
Siamese fire dept. connection
Automatic sprinklers.
Single fire dept. connection
Automatic chemical sprinklers.
Automatic sprinklers in part of building only. (Note under symbol indicates protected portion of building)
Not sprinklered.
Outside vertical pipe on fire escape.
Reference to adjoining page
Fire engine house as shown on key map.
Fire alarm box.
Fire pump.
Single hydrant.
Double "
Triple "
Under page number refers to corresponding page of previous edition.
Quadruple hydrant of the "High Pressure Fire Service"
Fire alarm box of the "High Pressure Fire Service"
Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map.
Water pipes and size in inches.
Water pipes of private supply
House numbers shown nearest to buildings are official or actually up on buildings.
Old house numbers shown furthest from buildings.

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS

FRAMING		FLOORS		ROOF	
CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT

Reference 12



JUNE 1950 - MAY 1947

KEY

Fire proof construction (or fire resistive construction)

Adobe building

Stone building

Concrete, lime, cinder or cement brick

Hollow concrete or cement block constn

Concrete or reinforced concrete constn

Tile building

Brick building with frame cornice

" " " stone front, frame side (or sides by dynamic subdivision)

Brick veneered building

" and frame building

Frame building, brick lined

" " metal clad

Frame building

Iron building

Tenant building occupied by various manufacturing or occupancies

Frame building covered with asbestos

Brick building with brick or metal cornice

Fire wall 6 inches above roof

" " 12 " " "

" " 18 " " "

" " 36 " " "

Figures 8, 12, 16 indicate thickness of wall in inches

Wall without opening and size in inches

Wall with openings or doors as designated

Opening with single iron or tin clad door

" double iron " " doors

" standard fire doors

Openings with wired glass doors

Drive or passage way

Stable

Auto House or private garage

Solid brick with interior walls of C.B. or C.B. and brick mixed

Mixed construction of C.B. and brick with one wall of solid brick

Mixed construction of C.B. and brick with one wall faced with 4" brick

Mixed construction of C.B. and brick throughout

Window opening in first story

Window openings in second and third stories

Window openings in second and fourth stories

Windows with wired glass

Windows with iron or tin clad shutters

Window openings, tenth to twenty-second stories

Width of street (between block lines, not curb lines)

Open elevator

Frame enclosed elevator

" " " with traps

" " " self closing traps

Concrete block enclosed elevator with traps

Tile enclosed elevator with self closing traps

Brick enclosed elev. with wired glass door

Iron chimney

Brick chimney

Ground elevation

Vertical steam boiler

Gasoline tank

Open under

Siamese fire dept. connection

Single fire dept. connection

Block number

Vertical pipe or stand pipe

AFA Automatic fire alarm

IEP Independent electric plant

Automatic sprinklers

Automatic chemical sprinklers

Automatic sprinklers in part of building only (note under symbol indicates protected portion of building)

Not sprinklered

Outside vertical pipe on fire escape

Fire alarm box

Single hydrant

Double "

Triple "

Quadruple hydrant of the "High Pressure Fire Service"

Fire alarm box of the "High Pressure Fire Service"

Water pipes of the "High Pressure Fire Service" and hydrants of the "High Pressure Fire Service" as shown on key map

Water pipes and size in inches

Water pipes of private supply

House numbers shown nearest to buildings are official or actually up on buildings. Old house numbers shown furthest from buildings

Reference to adjoining page

Fire engine house as shown on key map

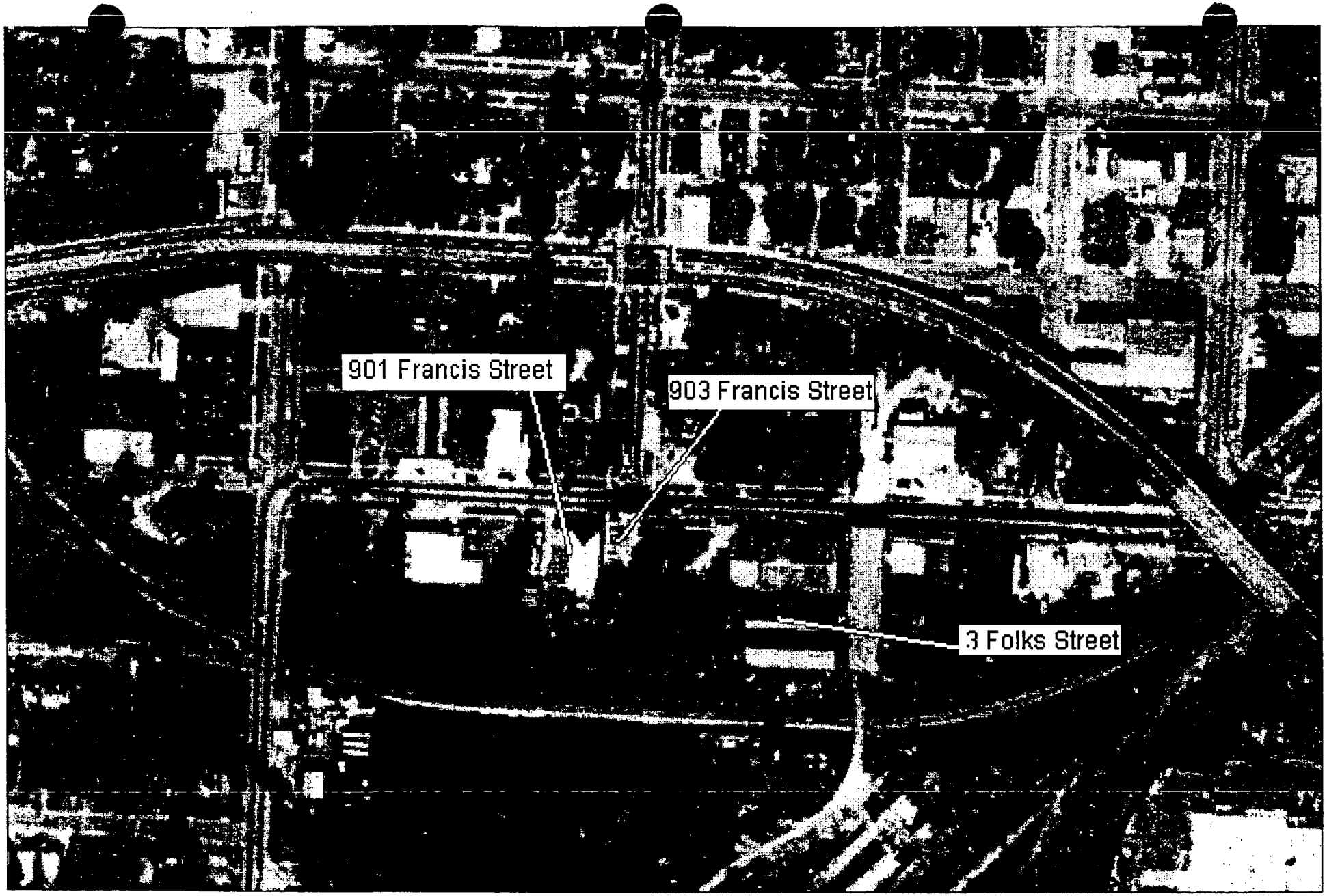
Fire pump

Under page number refers to corresponding page of previous edition

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS

FRAMING		FLOORS		ROOF	
CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT	CODE	STRUCTURAL UNIT

Reference 13



Seven Out Parcels by Address. Modified from U.S. Geological Survey Aerial Photograph, dated February 5, 1999, accessed at http://stevemorse.org/jcal/map.html on June 10, 2006.

Reference 14

14

REMOVAL ASSESSMENT REPORT

SEVEN OUT, LLC SITE
WAYCROSS, WARE COUNTY, GEORGIA

Prepared for

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

Contract No.	:	68-W-00-120
TDD No.	:	4T-04-07-A-011
Date Prepared	:	December 9, 2004
EPA Task Monitor	:	Terry Stilman
Telephone No.	:	(404) 562-8748
Prepared by	:	Tetra Tech EM Inc.
START Project Manager	:	Randy Nattis
Telephone No.	:	(404) 225-5530

1.0 INTRODUCTION

The Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) received Technical Direction Document (TDD) No. 4T-04-07-A-011 from the U.S. Environmental Protection Agency (EPA) under Contract No. 68-W-00-120. Under this TDD, START assisted EPA in conducting removal assessment (RA) activities at the Seven Out, LLC Site, which is operating under the facility name of BCX Corporation. The facility is located in Waycross, Ware County, Georgia.

1.1 REPORT STRUCTURE

This RA Report provides a review of the objectives of the RA, discusses the field and fixed laboratory activities that were performed, and presents and discusses the fixed laboratory analytical results of tank and soil samples that were collected at the site. The report is organized as follows:

- Section 1.0 presents the RA Reports' structure and the RA objectives;
- Section 2.0 provides facility background information;
- Section 3.0 describes the field and fixed laboratory activities conducted during this RA, and presents the fixed laboratory analytical results;
- Section 4.0 presents conclusions regarding the results of the RA; and
- Section 5.0 provides a list of references.

Appendices to this report present figures (Appendix A), fixed laboratory data tables (Appendix B), tank inventory logs (Appendix C), the fixed laboratory analytical data as presented by the laboratory (Appendix D), logbook notes (Appendix E), a photographic log (Appendix F), a table of witnesses (Appendix G), and the data validation report and qualified fixed laboratory analytical data tables (Appendix H).

1.2 REMOVAL ASSESSMENT OBJECTIVES

The primary objectives of this RA were to: (1) collect information on current site conditions, including information regarding the presence and nature of contamination, (2) and to conduct RA sampling activities in support of assessing the need for a removal action at the site.

Planned RA activities included the following:

- Collect environmental samples;
- Interview the site owner and State representatives;
- Screen the site using air monitoring instruments;
- Photograph site features and sampling locations;
- Collect and prepare samples for fixed laboratory analysis;
- Prepare field sampling and chain-of-custody documentation; and
- Provide technical support for assessing the need for a removal action.

2.0 FACILITY BACKGROUND

The Seven Out site is located at 901 Francis Street in Waycross, Ware County, Georgia. Appendix A, Figure 1 presents a topographic map of the area around the facility. The facility is less than 2 years old and operates as an industrial wastewater treatment facility. The property has 37 storage/treatment tanks and 4 frac tanks with a combined capacity of over 450,000 gallons. Wastewater is treated in batch mode. The treatment process is adjusted for each batch to ensure that the effluent meets pre-treatment standards. The facility uses sodium hydroxide, aluminum sulfate, ferric acid, and sulfuric acid to remove components of the wastewater through precipitation; these chemicals are stored on site in bulk tanks. Precipitated solids are sent to a filter press, after which the pressed solids are sent to the Broadhurst Environmental landfill in Screvin, Georgia. The treated wastewater is discharged to the City of Waycross publicly owned treatment works (POTW) using the City's collection system.

The City of Waycross issued Notices of Violation and an Administrative Order to the facility due to many exceedances of the company's pre-treatment permit. The facility received eight enforcement letters between May 2003 and December 2003 from the City of Waycross. The facility voluntarily ceased accepting industrial wastewater and stopped discharging to the Waycross POTW on March 1, 2004.

The BCX plant manager informed Georgia Department of Natural Resources (GADNR) personnel that no

documentation was available to demonstrate the exact contents of each tank. Some information on past customers and waste profiles were provided by GADNR to EPA, however, information on the current contents of the tanks was not available when preparing this RA report

3.0 FIELD AND FIXED LABORATORY ACTIVITIES

The Tetra Tech START team mobilized to the site on August 23, 2004, and performed field activities through the morning of August 26, 2004. Field activities focused on collecting samples from onsite storage and treatment tanks, with an emphasis on the heavier fractions and sludges that might be present inside the tanks. Appendix A, Figure 2 presents the site layout, and shows the locations of many of the tanks from which samples were collected. Appendix C presents the tank inventory logs. Appendix E presents the field logbook notes that summarize the field activities. Appendix F contains a photographic log of specific site locations and activities.

Field activities were performed in accordance with the EPA Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM) (Ref. 1). This guidance document specifically addresses sample types, sampling procedures, and field quality assurance and quality control samples. In addition, the Sampling and Analysis Plan prepared for this RA was also used as a guidance document when performing the RA activities (Ref. 2).

3.1 SAMPLING LOCATIONS

The tanks at the facility were labeled with designations specific to each tank. Samples collected from the tanks were named by using these tank designations, although in many cases the sample names contain additional lettering to provide further information about the sample. In particular, the letter "S" was appended to many sample names to indicate that the sample was taken from a sludge layer. In addition, the tank designated "DP-1" contained two layers from which samples were collected; the sample from the top layer was named "DP-1-S layer A", and the sample from the bottom layer was named "DP-1-S layer B." A total of 33 tank samples were collected.

Four surface soil samples were also collected for fixed laboratory analysis during the field investigation. A background soil sample was collected from a nearby private residential property located about 1,000 feet

west of the site (named "SO-BG.") Because discolored soil was observed in some areas, soil samples were collected from the following locations: a drainage ditch (named "SO-DD"), the frac tank area (named "SO-FRT"), and at the south wall of the tank farm (named "SO-SW). It is believed that one of the frac tanks discharged some of its contents and was the source of the soil discoloration that can be seen in Photograph No. 10 and Photograph No. 11

Quality control samples collected in the field included one trip blank sample (named "TB-1") that was analyzed for volatile organic compounds (VOC). In addition, one tank sample (named "CT-6-S") and one soil sample (named "SO-FRT") were designated on the chains-of-custody (COC) forms as samples to be analyzed as matrix spike and matrix spike duplicate (MS and MSD) samples, in addition to their routine analyses. In addition, selected samples were used for laboratory duplicate sample analysis for some analytical parameters.

The samples were preserved, packaged, and submitted to Analytical Environmental Services, Inc. (AES) in Atlanta, Georgia for analysis for various parameters.

3.2 FIXED LABORATORY ANALYTICAL RESULTS

Appendix D contains a compact disc that presents in electronic form the entire AES data package, including all of the analytical results and raw data. The fixed laboratory (AES) analytical data were subjected to a data validation process; Appendix H presents the data validation report and a table containing the validation-qualified data. Appendix B, Tables 1 and 2 present a summary of the qualified fixed laboratory analytical results for the soil and tank samples. These tables summarize the positive analytical results and therefore do not contain all of the analytical results presented in Appendices D and H.

The following discussion of the data presented in Tables 1 and 2 summarizes the positive results and those results that exceeded certain remediation goals. In particular, the analytical results (excluding the toxicity characteristic leaching procedure [TCLP] results) presented in Table 1 for the soil samples were compared to the EPA Region 9 Preliminary Remediation Goals (PRG) for residential and industrial soils (Ref. 3); the PRGs appropriate to each analyte are included in Table 1 for convenience. As stated in the Region 9 website (provided in Ref. 3), the Region 9 PRGs "are risk-based concentrations that are intended to assist risk assessors and others in initial screening-level evaluations of environmental measurements. The PRGs contained in the Region 9 PRG Table are generic; they are calculated without site specific information". The website also states that "PRGs should be viewed as Agency guidelines, not legally enforceable

standards. They are used for site 'screening' and as initial cleanup goals, if applicable. PRGs are not *de facto* cleanup standards and should not be applied as such. However, they are helpful in providing long-term targets to use during the analysis of different remedial alternatives."

In addition, the TCLP analytical results presented in Appendix B, Tables 1 and 2 were compared to the appropriate maximum concentrations found in Table 1 of Title 40 of the Code of Federal Regulations, Part 261, Section 261.24 (40 CFR 261.24).

The surface soil analytical results presented in Appendix B, Table 1 show that measurable concentrations of TCLP lead were detected in sample SO-DD and SO-SW; the TCLP lead concentration in sample SO-DD (8.13 milligrams per liter [mg/L]) exceeded the TCLP maximum concentration standard presented in 40 CFR 261.24. Total metals were found at detectable concentrations in all four soil samples, and the background sample generally had the lowest metals concentrations among the sample set. Sample SO-SW contained total arsenic at a concentration (151 milligrams per kilogram [mg/kg]) that exceeded both the residential soil and industrial soil Region 9 PRGs. In addition, sample SO-SW contained total lead at a concentration (264 mg/kg) that exceeded the residential soil Region 9 PRG. The results for the analysis of the soil samples for volatile organic compounds (VOC) showed measurable concentrations of benzene (32 micrograms per kilogram [µg/kg]) and carbon disulfide (10 µg/kg) in sample SO-DD; these concentrations are below the associated Region 9 PRGs for residential and industrial soils. Polynuclear aromatic hydrocarbons (PAH) were found at measurable concentrations in samples SO-DD and SO-SW. The concentrations of benz(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, dibenz(a,h)anthracene, and indeno(1,2,3-cd)pyrene in sample SO-SW exceeded both the residential soil and industrial soil Region 9 PRGs for those compounds. In addition, the concentration of benzo(b)fluoranthene in sample SO-SW exceeded the residential soil Region 9 PRG for this compound. Note that the reporting limits for arsenic, benzo(a)pyrene, and dibenz(a,h)anthracene for samples SO-BG, SO-DD, and SO-FRT are above the associated Region 9 PRGs for residential and industrial soils; it is therefore possible that these samples contain these analytes at concentrations above the PRGs.

The tank analytical results presented in Appendix B, Table 2 show that measurable concentrations of TCLP metals, total metals, VOCs and semivolatile organic compounds (SVOC) were detected in many of the samples collected from the tanks and frac tanks. None of the TCLP metals results presented in Table 2 exceeded the maximum concentrations for the toxicity characteristic for these analytes provided in 40 CFR 261.24.

Notable results among the four samples that were analyzed as solid samples (samples CD-1-S, CD-3-S, SH-4-S, and SS-2-S) include the following: sample SH-4-S contained lead at a concentration of 14 mg/kg; mercury was detected (at up to 0.00982 mg/kg) in all four samples; vanadium was detected at a concentration of 41 mg/kg in sample CD-3-S; acetone was detected (at up to 74,000 µg/kg in sample SH-4-S) in three of the four samples; sample SH-4-S also contained benzene at a concentration of 2,600 µg/kg; samples CD-3-S and SS-2-S contained measurable concentrations of 2-methylnaphthalene and phenanthrene; and sample SS-2-S contained a measurable concentration of naphthalene.

Notable results among the samples analyzed as liquid samples include the following: 2-butanone, 4-methyl-2-pentanone, acetone, and benzene were detected in many of the samples (with acetone at 270,000 micrograms per liter [µg/L] in sample SH-3-S and benzene at 2,300 µg/L in sample ST-1); xylenes and toluene were detected in sample DP-1-S layer B; sample OP-4-S contained phenol at a concentration of 180,000 µg/L; and sample CT-1-S contained several SVOCs, many at the highest concentrations detected for this set of samples.

4.0 CONCLUSIONS

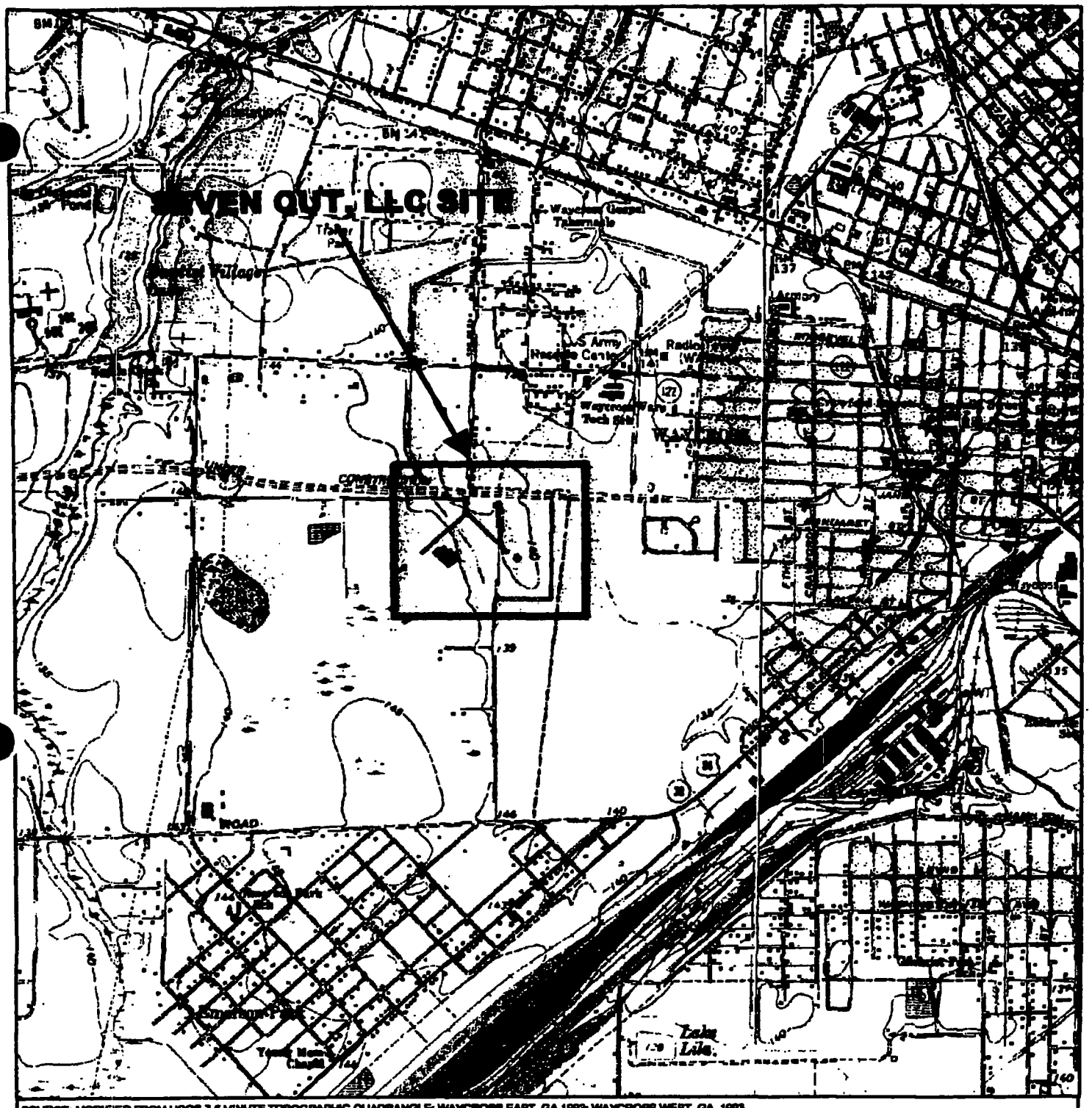
From August 23 through 26, 2004, the Tetra Tech START team collected 33 tank and frac tank samples and 4 surface soil samples from the Seven Out, LLC Site in Waycross, Ware County, Georgia. The samples were analyzed for TCLP metals, total metals, VOCs and SVOCs. According to the National Contingency Plan (NCP), 40 CFR 300.415(b)(1), at any release, regardless of whether or not the site is included on the National Priorities List (NPL), where the lead agency makes the determination that there is a threat to public health or welfare of the United States or the environment, the lead agency may take any appropriate removal action to abate, prevent, minimize, stabilize, mitigate or eliminate the release or the threat of release. Based on the NCP and the fixed laboratory analytical results presented in this report, future removal activities may be justified at this site, at the discretion of the EPA.

5.0 REFERENCES

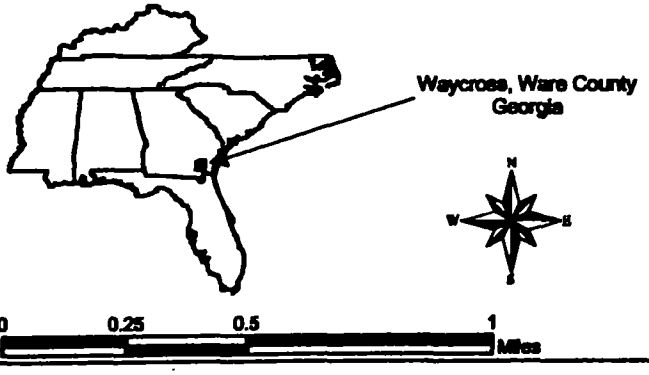
1. U.S. Environmental Protection Agency, Science and Ecosystem Support Division (SESD) Region 4 Environmental Investigation Standard Operating Procedures and Quality Assurance Manual (EISOPQAM), May 1996, Includes 1997 Revisions.

2. Tetra Tech EM, Inc., Removal Assessment, Sampling and Analysis Plan, Seven Out, LLC Site, Waycross, Ware County, Georgia, prepared for U.S. Environmental Protection Agency, Region 4, August 19, 2004.

3. U.S. Environmental Protection Agency, Region 9, Preliminary Remediation Goals Table, October 2004. This table can be found at the following web address: http://www.epa.gov/region09/waste/sfund/prg/index.htm.



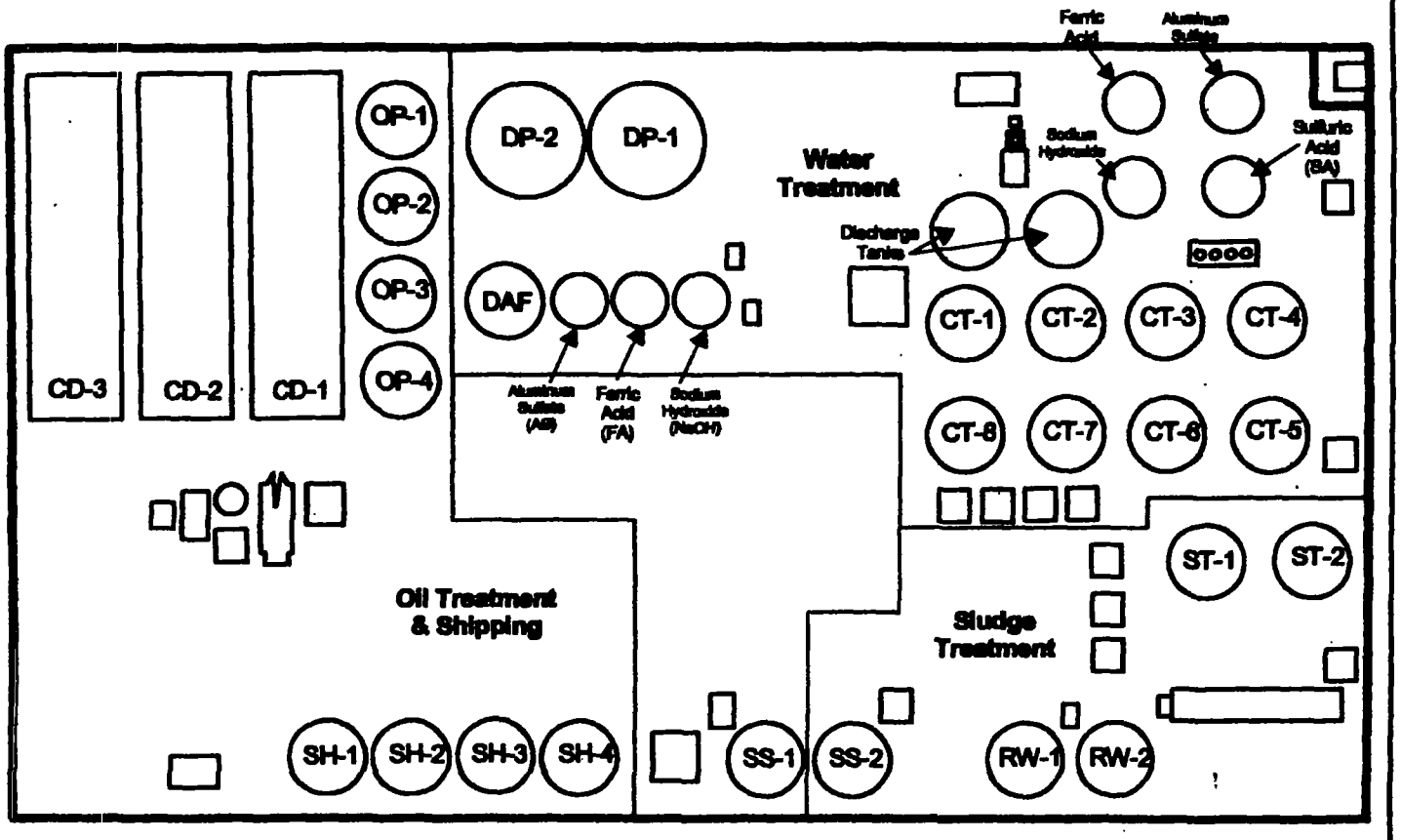
SOURCE: MODIFIED FROM USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE: WAYCROSS EAST, GA 1993; WAYCROSS WEST, GA, 1993



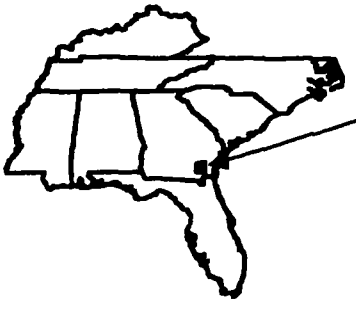
SEVEN OUT, LLC SITE
WAYCROSS, WARE COUNTY, GEORGIA
TDD No. 4T-04-07-A-011

FIGURE 1
FACILITY LOCATION MAP

Tetra Tech EM Inc.



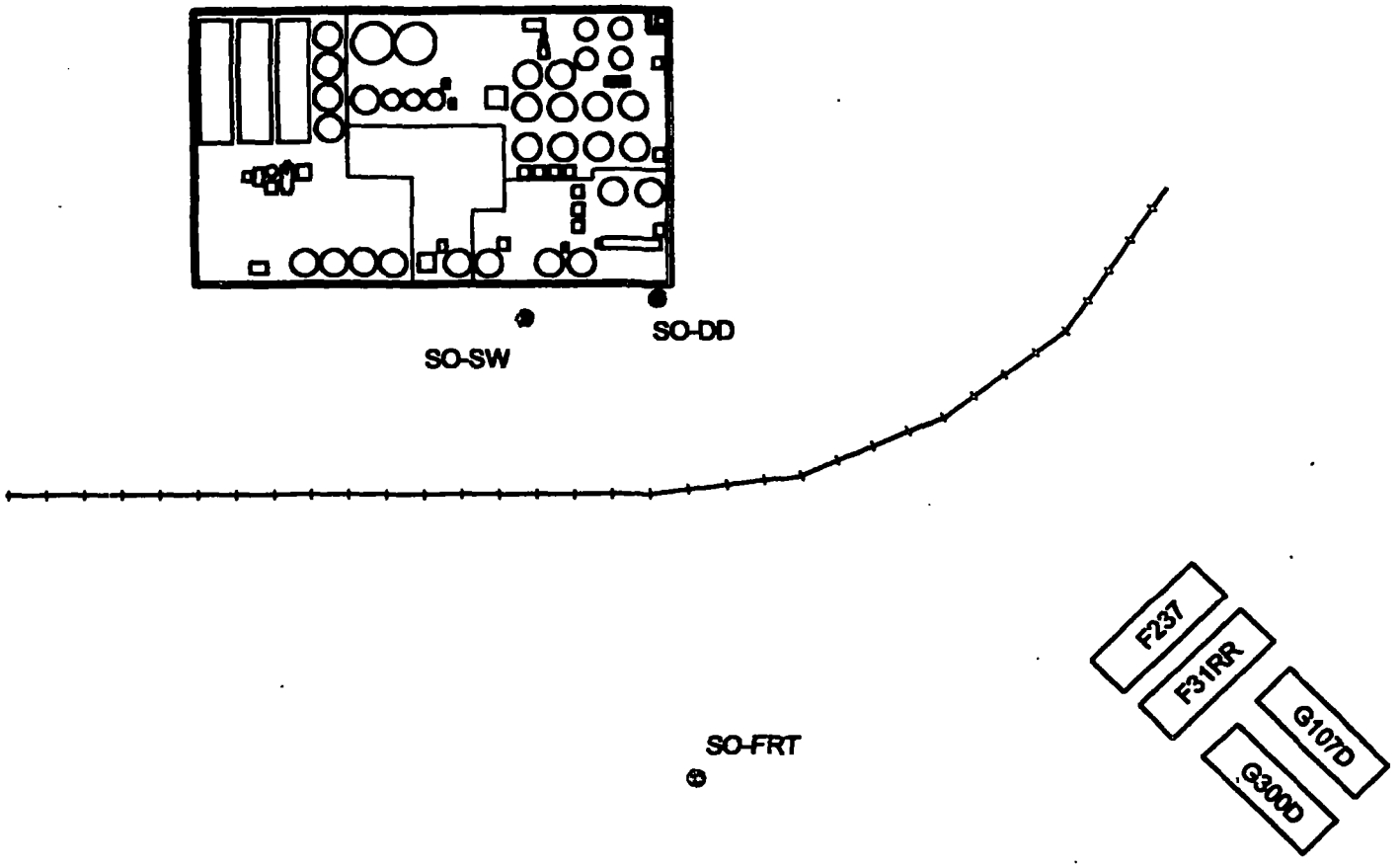
NOT TO SCALE



SEVEN OUT, LLC SITE
WAYCROSS, WARE COUNTY, GEORGIA
TDD No. 4T-04-07-A-011

FIGURE 2
FACILITY LAYOUT MAP

Tetra Tech EM Inc.



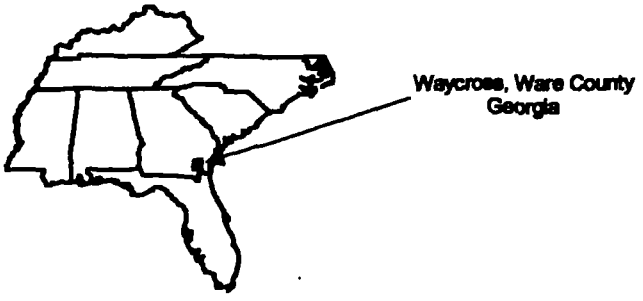
LEGENG

Soil sample

FRAC Tank

NOT TO SCALE

SO-BG is the background soil sample and was sampled off site.
The sample location is not depicted on this figure



SEVEN OUT
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FIGURE 3 - FRAC TANKS
AND SOIL SAMPLE LOCATIONS

Tetra Tech EM Inc.

APPENDIX B

TABLES

(9 Sheets)

TABLE 1
SURFACE SOIL ANALYTICAL RESULTS

PARAMETER	Region 9 PRG Residential/Industrial Soil Screening Levels	Sample Identification			
		SO-BG	SO-DD	SO-FRT	SO-SW
TCLP Metals (mg/L)					
Lead	5.0[a]	0.0500 U	8.1300	0.0500 U	0.0690
Metals (mg/kg)					
Aluminum	76,100 / 100,000	623	1860	586	2180
Arsenic	0.0616[b] / 0.251[b]	3.93 U	3.59 UJ	3.75 U	151
Barium	5,370 / 66,600	3.93 U	15.5	7.11	75.2
Calcium	NSA / NSA	234	7740	1530	3130
Chromium	211 / 448	1.96 U	7.93	1.87 U	8.69
Cobalt	903 / 1,920	1.96 U	1.8 U	1.87 U	3.46
Copper	3,130 / 40,900	1.96 U	59.2	17.8	107
Iron	23,500 / 100,000	596	4910	1080	10800
Lead	150[b] / 800	3.93 U	17.7	10.8	264
Magnesium	NSA / NSA	39.3 U	507	58.5	143
Manganese	1,760 / 19,500	4.26	74.7	8.22	169
Nickel	1,560 / 20,400	3.93 U	3.59 U	3.75 U	4.62
Potassium	NSA / NSA	78.5 U	80.3 J	74.9 U	92.1 J
Sodium	NSA / NSA	247	470	389	204
Vanadium	78.2 / 1,020	3.93 U	5.34	3.75 U	8.58
Zinc	23,500 / 100,000	4.11	32.3	8.32	518
Mercury	23.5 / 307	0.0987 U	0.0992 U	0.0994 U	0.350
Volatile Organic Compounds (µg/kg)					
Benzene	643 / 1,410	6.6 UJ	32 J	5.3 U	3.8 UJ
Carbon disulfide	355,000 / 720,000	13 UJ	10 J	11 U	7.6 UJ
Semivolatile Organic Compounds (µg/kg)					
2-Methylnaphthalene	NSA / NSA	330 U	610	330 U	330 U
Acenaphthylene	NSA / NSA	330 U	330 U	330 U	1300
Anthracene	21,900,000 / 100,000,000	330 U	330 U	330 U	1000
Benz(a)anthracene	621 / 2,110	330 U	330 UJ	330 U	***2400***
Benzo(a)pyrene	62.1 / 211	330 U	330 U	330 U	***2800***
Benzo(b)fluoranthene	621 / 2,110	330 U	330 U	330 U	**1800**
Benzo(g,h,i)perylene	NSA / NSA	330 U	330 U	330 U	2400
Benzo(k)fluoranthene	378[b] / 1,280[b]	330 U	330 U	330 U	3200
Carbazole	24,300 / 86,200	330 U	330 U	330 U	370
Chrysene	3,780[b] / 12,800[b]	330 U	330 UJ	330 U	3100
Dibenz(a,h)anthracene	62.1 / 211	330 U	330 U	330 U	***650***
Di-n-butyl phthalate	6,110,000 / 61,600,000	330 U	1100	330 U	330 U
Fluoranthene	2,290,000 / 22,000,000	330 U	330 U	330 U	4600
Indeno(1,2,3-cd)pyrene	621 / 2,110	330 U	330 U	330 U	***3000***
Phenanthrene	NSA / NSA	330 U	400	330 U	1800
Pyrene	2,320,000 / 29,100,000	330 U	330 UJ	330 U	4000

Notes:

Values in bold = value is greater than the residential PRG for soil but less than the industrial PRG for soil.

Values in bold italics = value is greater than the residential and industrial PRGs for soil

* = value exceeds the maximum concentration for the toxicity characteristic.

a = Maximum concentration for the toxicity characteristic, (see 40CFR261.24, Table 1)

b = CAL-Modified PRG value presented in the Region 9 PRG table.

BG = Background

DD = Drainage ditch

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

mg/L = Milligrams per liter

NSA = No standard available

PRG = Preliminary remedial goal

SO = Soil

SW = South wall of the tank farm

TCLP = Toxicity characteristic leaching procedure

U = Analyte was analyzed for but not detected at or above the associated value.

UJ = Analyte was analyzed for but not detected at or above the associated value, which is estimated

FRT = Frac tank area

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier								
	AS-S/ AS	CD-1-S/ CD-1	CD-2-S/ CD-2	CD-3-S/ CD-3	CT-1-S/ CT-1	CT-2-S/ CT-2	CT-3-S/ CT-3	CT-4-S/ CT-4	CT-5-S/ CT-5
TCLP Metals (mg/L)									
Chromium	0.0500 U	0.1120	0.0500 U	0.0500 U	0.4520	0.0708	0.0500 U	0.0500 U	0.0500 U
Lead	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Metals	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	1.59 J	58	18 J	120	73.4 J	3.37 J	1.44 J	0.2 UJ	1.35 J
Antimony	0.0200 U	0.9800 U	0.0200 U	1.2000 U	0.0208	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Barium	0.0457 J	1.6	0.0854 J	3.7	0.135 J	0.0329 J	0.0502 J	0.0279 J	0.428 J
Cadmium	0.0050 U	0.4900 U	0.0080	0.5900 U	0.0278	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium	124 J	340	377 J	130	370 J	382 J	691 J	269 J	416 J
Chromium	0.0190	0.4900 U	0.0743	0.6100	1.9200	0.1330	0.0469	0.0133	0.0413
Cobalt	0.0200 U	0.4900 U	0.0552	0.4900 U	0.0688	0.0200 U	0.0229	0.0200	0.0200 U
Copper	0.716	0.89	1.9	14	31.7	4.65	3.3	0.4	1.19
Iron	29.3	110	253	40	431	36	18.4	6.15	101
Lead	0.0200	0.9800 U	0.0173	2.6000	0.0388	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Magnesium	22.8	9.8 U	44.3	12 U	25.7	14.4	54.3	42.5	27.1
Manganese	0.968	1.3	6.95	1.2 U	6.5	1.96	2.83	0.444	2.4
Nickel	0.108	0.98 U	0.301	1.2 U	1.65	0.209	0.227	0.17	0.141
Potassium	36.0	400.0	342.0	240.0	51.5	47.0	123.0	126.0	64.0
Selenium	0.0200 U	0.9800 U	0.0200 U	1.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Sodium	434	3300	3680	1700	1460	1950	3190	2620	2000
Vanadium	0.0100 U	0.9800 U	0.0100 U	41.0000	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	0.356	2.5 J	5.96	6.3 J	9.52	2.27	1.38	1.19	5.58
Mercury	0.000244	0.00981 U	0.0002 U	0.00934 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/kg	ug/L	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
1,2-Dichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,4-Dichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
2-Butanone	100 U	5000 U	250	5000 U	100 U	100 U	100 U	460	100 U
4-Methyl-2-pentanone	310	5000 U	110	5000 U	100 U	330	390	550	120
Acetone	3800	11000	11000 J	10000 U	700	1300	2200	2000	1000
Benzene	50 U	2500 U	640	2500 U	310	54	57	50 U	190
Carbon disulfide	50 U	5000 U	50 U	5000 U	140	50 U	50 U	50 U	50 U
Chloroform	50 U	2500 U	62	2500 U	50 U	50 U	50 U	50 U	50 U
Isopropylbenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
m,p-Xylene	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
Methyl tert-butyl ether	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
o-Xylene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier								
	AS-S/ AS	CD-1-S/ CD-1	CD-2-S/ CD-2	CD-3-S/ CD-3	CT-1-S/ CT-1	CT-2-S/ CT-2	CT-3-S/ CT-3	CT-4-S/ CT-4	CT-5-S/ CT-5
Semivolatile Organic Compounds	ug/L	mg/kg	ug/L	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L
1,1'-Biphenyl	100 U	96 U	200 U	98 U	490	100 U	100 U	100 U	500 U
2-Methylnaphthalene	100 U	96 U	1900	450	4000	120	290	100 U	1300
4-Methylphenol	410	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Bis(2-ethylhexyl)phthalate	110	96 U	880	98 UJ	2400	100 U	100 UJ	100 U	500 UJ
Diethyl phthalate	100 U	96 U	2400	98 U	420	170	370	160	500 U
Dimethyl phthalate	100 U	96 U	200 U	98 U	200 U	100 U	270	100 U	500 U
Di-n-butyl phthalate	100 U	96 U	200 U	98 U	2200	100 U	230	100 U	680
Fluorene	100 U	96 U	200 U	98 U	1200	100 U	100 U	100 U	500 U
Isophorone	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Naphthalene	100 U	96 U	1000	98 U	1000	100 U	110	100 U	500
Phenanthrene	100 U	96 U	200 U	260	1000	100 U	100 U	100 U	500 U
Phenol	100 U	96 U	11000	98 U	5900	5300	27000	40000	14000
Pyrene	100 U	96 U	200 U	98 UJ	1400	100 U	100 UJ	100 U	500 UJ

Notes:
J = The associated value is the approximate concentration of the analyte in the sample.
ug/Kg = Micrograms per kilogram
ug/L = Micrograms per liter
mg/Kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = The analyte was not analyzed for
TB-1 = Trip blank
TCLP = Toxicity characteristic leaching procedure
U = Analyte was analyzed for but not detected at or above the associated value
UJ = Analyte was analyzed for but not detected at or above the associated value, which is estimated

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier							
	CT-6-S/ CT-6	CT-7/ CT-7	CT-8/ CT-8	DAF-S/ DAF	DP-1-S layer A/ DP-1	DP-1-S layer B/ DP-1	DP-2-S/ DP-2	F237/ F237
TCLP Metals (mg/L)								
Chromium	0.0500 U	0.0500 U	0.0655	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Lead	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0630
Metals	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	0.2 UJ	1.16 J	3.43 J	0.2 UJ	6.62 J	92 J	0.2 UJ	1 UJ
Antimony	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.1000 U	0.0200 U	0.1000 U
Barium	0.0312 J	0.0536 J	0.0542 J	0.02 UJ	0.063 J	0.55 J	0.02 UJ	0.1 UJ
Cadmium	0.0050 U	0.0050 U	0.0088	0.0050 U	0.0050 U	0.0250 U	0.0050 U	0.0250 U
Calcium	60.8 J	730 J	573 J	21.3 J	716 J	989 J	22.1 J	7.23 J
Chromium	0.0104	0.0113	0.1330	0.0100 U	0.0387	0.1830	0.0100 U	0.0500 U
Cobalt	0.0200 U	0.0200 U	0.0506	0.0200 U	0.0315	0.1000 U	0.0200 U	0.1000 U
Copper	0.437	2.25	3.3	0.01 U	11	13.1	0.353	0.142
Iron	2.52	16.1	40.5	7.05	31.3	232	2.38	11.1
Lead	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0386	0.1070	0.0100 U	0.0500 U
Magnesium	56.5	41.2	37.3	1.99	43.7	69.8	36.2	0.902
Manganese	0.396	1.39	2.33	0.0726	2.16	4.45	0.218	0.112
Nickel	0.124	0.203	1.44	0.0338	0.203	0.326	0.0753	0.1 U
Potassium	93.1	125.0	70.5	3.4	385.0	477.0	110.0	7.2
Selenium	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.1000 U	0.0200 U	0.1000 U
Sodium	1960	3030	2080	23.3	2290	3150	1660	1450
Vanadium	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0500 U	0.0100 U	0.0500 U
Zinc	0.222	1.8	4.1	0.02 U	2.58	3.01	0.108	2.03
Mercury	0.0002 U	0.000443	0.0002 U	0.0002 U	0.000203	0.00029	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/L
1,2-Dichlorobenzene	50 U	50 U	50 U	5 U	560	100 U	100 U	100 U
1,4-Dichlorobenzene	50 U	50 U	50 U	5 U	100 U	780	100 U	100 U
2-Butanone	440	100 U	100 U	10 U	350	970	200 J	200 U
4-Methyl-2-pentanone	290	300	400	10 U	480	200 U	200 UJ	200 U
Acetone	3000	3700	1500	20 UJ	28000	52000	7300 J	400 U
Benzene	50 U	370	82	5 U	920	1600	120 J	100 U
Carbon disulfide	91	50 U	200	5 U	100 U	550	360 J	100 U
Chloroform	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U
Isopropylbenzene	50 U	50 U	50 U	5 U	420	770	100 U	100 U
m,p-Xylene	100 U	100 U	100 U	10 U	200 U	240	200 UJ	200 U
Methyl tert-butyl ether	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U
o-Xylene	50 U	50 U	50 U	5 U	400	440	100 UJ	100 U
Toluene	50 U	50 U	50 U	5 U	100 U	130	100 UJ	100 U

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier							
	CT-6-S/ CT-6	CT-7/ CT-7	CT-8/ CT-8	DAF-S/ DAF	DP-1-S layer A/ DP-1	DP-1-S layer B/ DP-1	DP-2-S/ DP-2	F237/ F237
Semivolatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1'-Biphenyl	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
2-Methylnaphthalene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
4-Methylphenol	1700	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U
Bis(2-ethylhexyl)phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
Diethyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5700	100 U	100 U
Dimethyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	510	100 U
Di-n-butyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	12000	100 U	100 U
Fluorene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
Isophorone	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	150
Naphthalene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
Phenanthrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U
Phenol	20000	48000 J	15000 J	100 U	1000 UJ	12000 J	1300	260
Pyrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U

Notes:
J = The associated value is the approximate concentration of the analyte in the sample.
ug/Kg = Micrograms per kilogram
ug/L = Micrograms per liter
mg/Kg = Milligrams per kilogram
mg/L = Milligrams per liter
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TB-1 = Trip blank
TCLP = Toxicity characteristic leaching procedure
U = Analyte was analyzed for but not detected at or above the associated value
UJ Analyte was analyzed for but not detected at or above the associated value, which is estimated

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier								
	FA-S/ FA	G107D/ G107D	G300D/ G300D	NAOH/ NAOH	OP-4-S/ OP-4	RW-1-S/ RW-1	RW-2-S/ RW-2	SH-1-S/ SH-1	SH-2-S/ SH-2
TCLP Metals (mg/L)									
Chromium	0.0500 U	0.0500 U	0.0500 U	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.3020
Lead	0.0500 U	0.0500 U	0.0724	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0690
Metals	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	0.287 J	2.22 J	1 UJ	2 UJ	2.9 J	0.795 J	0.948 J	1.48 J	400 J
Antimony	0.0200 U	0.0200 U	0.1000 U	0.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Barium	0.02 UJ	0.175 J	0.1 UJ	0.2 UJ	0.0733 J	0.02 UJ	0.0221 J	0.095 J	0.0461 J
Cadmium	0.0050 U	0.0050 U	0.0250 U	0.0500 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0177
Calcium	164 J	182 J	8.73 J	528 J	420 J	381 J	770 J	473 J	360 J
Chromium	0.0100 U	0.0100 U	0.0500 U	0.1000 U	0.0253	0.0100 U	0.0100 U	0.0276	0.3430
Cobalt	0.0200 U	0.0200 U	0.1000 U	0.0200 U	0.0250	0.0200 U	0.0200 U	0.0301	0.0716
Copper	0.0388	0.13	0.05 U	0.18	0.45	0.0488	0.119	0.172	10.9
Iron	5.53	140	5.47	20.5	116	19.1	4.47	68.2	700
Lead	0.0100 U	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0689
Magnesium	25.1	26.1	1.25	42.2	49.7	7.72	4.56	59.6	114
Manganese	1.36	3.09	0.123	2.77	6.42	0.343	0.411	3.87	9.71
Nickel	0.109	0.139	0.1 U	0.2 U	0.374	0.0718	0.0475	0.223	0.371
Potassium	42.1	94.1	8.3	62.3	216.0	82.3	32.4	249.0	312.0
Selenium	0.0200 U	0.0200 U	0.1000 U	0.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Sodium	507	3640	1120	727	2780	1660	1550	3390	3380
Vanadium	0.0100 U	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	0.111	1.38	0.7	0.425	4.05	0.38	0.766	4.67	13.8
Mercury	0.0002 U	0.0002 U	0.0016 U	0.0016 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,2-Dichlorobenzene	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U
1,4-Dichlorobenzene	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U
2-Butanone	100 U	180	200 U	200 U	2200	440	100 U	380	220
4-Methyl-2-pentanone	100 U	100 U	200 U	850	510	340	100 U	410	420
Acetone	3700	8600	400 U	6100	51000 J	10000	1100	34000	21000
Benzene	50 U	50 U	100 U	500	1200	160	50 U	860	790
Carbon disulfide	74	50 U	100 U	770	50 U	50 U	50 U	50 U	50 U
Chloroform	50 U	50 U	100 U	100 U	93	50 U	50 U	50 U	50 U
Isopropylbenzene	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U
m,p-Xylene	100 U	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U
Methyl tert-butyl ether	50 U	50 U	100 U	100 U	89	50 U	50 U	78	50 U
o-Xylene	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	50 U	100 U	100 U	50 U	50 U	50 U	50 U	54

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier								
	FA-S/ FA	G107D/ G107D	G300D/ G300D	NAOH/ NAOH	OP-4-S/ OP-4	RW-1-S/ RW-1	RW-2-S/ RW-2	SH-1-S/ SH-1	SH-2-S/ SH-2
Semivolatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1'-Biphenyl	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
2-Methylnaphthalene	1000 U	1000 U	100 U	1000 U	100 U	190	100 U	1000 U	1000 U
4-Methylphenol	1000 U	1000 U	100 U	3800	100 U	100 U	100 U	1000 U	1000 UJ
Bis(2-ethylhexyl)phthalate	1000 U	1000 U	100 U	1600	170	100 U	100 U	1000 UJ	1000 UJ
Diethyl phthalate	1000 U	1000 U	100 U	1000 U	320	100 U	100 U	1000 U	1000 U
Dimethyl phthalate	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
Di-n-butyl phthalate	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1500
Fluorene	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
Isophorone	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
Naphthalene	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
Phenanthrene	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U
Phenol	1000 U	30000 J	170	1000 U	180000 J	11000	770	14000	1000 UJ
Pyrene	1000 U	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ

Notes:
J = The associated value is the approximate concentration of the analyte in the sample.
ug/Kg = Micrograms per kilogram
ug/L = Micrograms per liter
mg/Kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = The analyte was not analyzed for
TB-1 = Trip blank
TCLP = Toxicity characteristic leaching procedure
U = Analyte was analyzed for but not detected at or above the associated value
UJ = Analyte was analyzed for but not detected at or above the associated value, which is estimated

TABLE 2
DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier							
	SH-3-S/ SH-3	SH-4-S/ SH-4	Sodium Hydroxide/ Sodium Hydroxide	SS-1-S/ SS-1	SS-2-S/ SS-2	ST-1/ ST-1	Sulfuric Acid/ Sulfuric Acid	TB-1/ (not applicable)
TCLP Metals (mg/L)								
Chromium	0.0500 U	0.0500 U	NA	0.0500 U	0.0500 U	NA	NA	NA
Lead	0.0500 U	0.0500 U	NA	0.0500 U	0.0500 U	NA	NA	NA
Metals	mg/L	mg/kg	mg/L	mg/L	mg/kg	mg/L	mg/L	NA
Aluminum	0.746 J	63	2 UJ	63.7 J	390	268 J	3.2 J	NA
Antimony	0.0200 U	1.0000 U	0.2000 U	0.0200 U	0.9778 U	0.2000 U	0.2000 U	NA
Barium	0.0455 J	1.2	0.2 UJ	0.281 J	4.8 J	2.4 J	0.2 UJ	NA
Cadmium	0.0050 U	0.5000 U	0.0500 U	0.0064	0.4889 U	0.0806	0.0500 U	NA
Calcium	405 J	610	2.86 J	503 J	510	480 J	8.49 J	NA
Chromium	0.0292	0.5000 U	0.1000 U	0.0299	0.4889 U	6.3800	0.9310	NA
Cobalt	0.0200 U	0.5000 U	0.2000 U	0.0200 U	0.4889 U	0.2000 U	0.2000 U	NA
Copper	0.0662	13	0.1 U	1.12	18	14.4	0.1 U	NA
Iron	5.59	160	3.58	221	100	2200	20	NA
Lead	0.0100 U	14.0000	0.1000 U	0.0100 U	0.9778 U	0.4310	0.1000 U	NA
Magnesium	45.5	59	1 U	60.5	18	64.2	2.81	NA
Manganese	2.3	7.9	0.05 U	5.76	3.5	29.3	0.23	NA
Nickel	0.145	1 U	0.2 U	0.137	0.977842 U	3.43	0.738	NA
Potassium	367.0	320.0	113.0	115.0	890.0	76.3	5.0 U	NA
Selenium	0.0200 U	1.0000 U	0.2000 U	0.0200 U	0.9778 U	0.2000 U	0.7250	NA
Sodium	4170	1600	188000	2040	6800	1780	10 U	NA
Vanadium	0.0100 U	1.0000 U	0.1000 U	0.0100 U	1.9000	0.1000 U	0.1000 U	NA
Zinc	0.437	2.8 J	0.2 U	9.16	2.3 J	21	0.2 U	NA
Mercury	0.0002 U	0.00979 U	0.00218	0.0002 U	0.009823 U	0.00277	0.0057	NA
Volatile Organic Compounds	ug/L	ug/kg	NA	ug/L	ug/kg	ug/L	NA	ug/kg
1,2-Dichlorobenzene	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,4-Dichlorobenzene	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
2-Butanone	400	5000 U	NA	140	5000 U	200 U	NA	10 UJ
4-Methyl-2-pentanone	420	5000 U	NA	300	5000 U	200 U	NA	10 U
Acetone	270000 J	74000	NA	19000	18000	860	NA	20 UJ
Benzene	290	2600	NA	900	2500 U	2300	NA	5 U
Carbon disulfide	50 U	5000 U	NA	110	5000 U	850	NA	5 U
Chloroform	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Isopropylbenzene	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
m,p-Xylene	100 U	5000 U	NA	100 U	5000 U	200 U	NA	10 U
Methyl tert-butyl ether	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
o-Xylene	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Toluene	50 U	2500 U	NA	50 U	2500 U	100 U	NA	5 U

TABLE 2

DRUMS AND TANKS ANALYTICAL RESULTS

PARAMETERS	Sample Identification/Tank Identifier							
	SH-3-S/ SH-3	SH-4-S/ SH-4	Sodium Hydroxide/ Sodium Hydroxide	SS-1-S/ SS-1	SS-2-S/ SS-2	ST-1/ ST-1	Sulfuric Acid/ Sulfuric Acid	TB-1/ (not applicable)
Semivolatile Organic Compounds	ug/L	mg/kg	ug/L	ug/L	mg/kg	ug/L	ug/L	NA
1,1'-Biphenyl	1000 U	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
2-Methylnaphthalene	1000 U	93 U	1000 U	1000 U	440	2000	1000 U	NA
4-Methylphenol	1000 UJ	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Bis(2-ethylhexyl)phthalate	1000 U	93 U	1000 U	1000 UJ	97.08738 U	1000 U	1100	NA
Diethyl phthalate	2100	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Dimethyl phthalate	1000 U	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Di-n-butyl phthalate	1000 U	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Fluorene	1000 U	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Isophorone	1000 U	93 U	1000 U	1000 U	97.08738 U	1000 U	1000 U	NA
Naphthalene	1000 U	93 U	1000 U	1000 U	170	1000 U	1000 U	NA
Phenanthrene	1000 U	93 U	1000 U	1000 U	140	1000 U	1000 U	NA
Phenol	40000 J	93 U	1000 U	18000	97.08738 U	1000 U	1000 U	NA
Pyrene	1000 U	93 U	1000 U	1000 UJ	97.08738 U	1000 U	1000 U	NA

Notes:

J = The associated value is the approximate concentration of the analyte in the sample.
ug/Kg = Micrograms per kilogram
ug/L = Micrograms per liter
mg/Kg = Milligrams per kilogram
mg/L = Milligrams per liter
NA = The analyte was not analyzed for
TB-1 = Trip blank
TCLP = Toxicity characteristic leaching procedure
U = Analyte was analyzed for but not detected at or above the associated value
UJ = Analyte was analyzed for but not detected at or above the associated value, which is estimated

APPENDIX C

TANK INVENTORY LOGS

(33 Sheets)

DRUM INVENTORY LOG

Drum Number: CT-1	Sampler: A. WHITT	Time: 1605
Site Name:	Location: Tank Farm	Date: 8/23/2004
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				colorless	X			13 FT
B					Brown-green		X		5 FT
C									

JH Field Analysis

pH 5 PID

CGI OVA / FID

Other

Drum Labels / Markings

DOT

UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 1 FT 9 inches from Top

Hazcat Data

Radiation Positive *

Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration Other Test: Spilfyter Strip:

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-2	Sampler: A WHITT	Time: 0800
Site Name:	Location: Tank Farm	Date: 8/24/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)
A	X				colorless	X			13 FT
B					Brown-green		X		5 FT
C									

Field Analysis: pH 5 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 1 FT 10 inches from top

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-3	Sampler: A. White	Time: 0830
Site Name:	Location: Tank Farm	Date: 8/24/2004
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Colorless	X			13 FT
B					Red-Brown		X		5 FT
C									

Field Analysis: pH 7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 2 Ft Iron Top

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal. (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-4	Sampler: A White	Time: 0900
Site Name:	Location: Tank Farm	Date: 6/24/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missin

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 7/ PID CGI OVA / FID Other
A	X				colorless		X		17 FT	Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 1FT 7 Inches

Hazcat Data

Radiation Positive * _____

Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration _____ Other Test: _____ Spilfyter Strip: _____

Comments

Bulk Group: | Waste Stream:

Bulk Group Number: | Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: LT-5-S	**Sampler:** A WHITT	**Time:** 0915
Site Name:	**Location:**	**Date:** 8/24/04
TDD #:	**Weather/Temperature:**	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:	

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color: use standard colors	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A				X	Brown-stain			X	1in
B	X				colorless	X			17PT
C				X	Brown		X		5PT

Field Analysis: pH 6/5 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA ____

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: ____

Hazcat Data

Radiation: Positive * ____ Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color: use standard colors	Clarity: Clear	Cloudy	Opaque	Water Sol: S, PS, or I	React *: Air or Water	pH: use std. unit	Hex Sol: S or I	Per: + or -	Ox: + or -	CN: + or -	Sul: + or -	PCB: + or -	Hal: + or -	Combust: + or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: OP-4	Sampler: A WHITT	Time: 1100
Site Name:	Location:	Date: 8/24/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				colorless	X			
B	X			X	Brown green				4 ft
C				X					5 inche

Field Analysis: pH 7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
									S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group: ____ Waste Stream: ____

Bulk Group Number: ____ Waste Stream Number: ____

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: SH-1-S	Sampler: A WHITT	Time: 1320
Site Name:	Location: Tank Farm	Date: 8/24/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Colorless	X			All
B									
C									

Field Analysis: pH _____ PID _____ CGI _____ OVA / FID _____ Other

Drum Labels / Markings: DOT _____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * _____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration _____ Other Test: _____ Spilfyter Strip: _____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: SH-2-S	Sampler: A WHITT	Time: 1350
Site Name:	Location: Tank Farm	Date: 8/24/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 4 PID ____ CGI ____ OVA / FID ____ Other
A										Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: SH-3-5	**Sampler:** A Wyatt	**Time:** 1420
Site Name:	**Location:** Tank farm	**Date:** 8/24/04
TDD #:	**Weather/Temperature:**	

Drum Color:									
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel			
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing			
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:				
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other	
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:		

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black			X	
B									
C									

Field Analysis: pH _____ PID _____ CGI _____ OVA / FID _____ Other

Drum Labels / Markings: DOT _____ UN / NA

Mfg. Name and Address: _____

Chemical Name: _____

Additional Information: _____

Hazcat Data

Radiation: Positive * _____ Negative MREM / HR

Hazard Category: _____

Analyst: _____

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

(Water Sol: S, PS, or I)

PCB Concentration _____ Other Test: _____ Spilfyter Strip: _____

Comments _____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: SH-4-S	**Sampler:** A Witt	**Time:** 1510
Site Name:	**Location:** tank farm	**Date:** 8/24/04
TDD #:	**Weather/Temperature:**	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black			X	1 in
B	X				Colorless	X			
C									

Field Analysis: pH 7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group: | Waste Stream:

Bulk Group Number: | Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: Bw-2	**Sampler:** A Whitt	**Time:** 1800
Site Name:	**Location:** Tank farm	**Date:** 8/24/04
TDD #:	**Weather/Temperature:**	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				colorless		X		
B									
C									

Field Analysis: pH 8 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per	Ox	CN	Sul	PCB	Hal	Combust
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: DP-1	**Sampler:** A Whitt	**Time:** 1815
Site Name:	**Location:** Tank Farm	**Date:** 5/24/04
TDD #:	**Weather/Temperature:**	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				White		X		22 ft
B	X				Black			X	2 ft
C									

Field Analysis: pH 7/7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: DP-2	Sampler: A WHITT	Time: 1850
Site Name:	Location: Tank Farm	Date: 8/24/04
TDD #:	Weather/Temperature:	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other	
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:		

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black			X	
B									
C									

Field Analysis: pH 9 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: ____

Hazcat Data

Radiation: Positive * ____ Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: Alum Sulfate (AS)	Sampler: A White	Time: 1300
Site Name:	Location: Truck Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Colorless	X			
B									
C									

Field Analysis: pH 8 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers.	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: Ferric Acid (FA)	Sampler: A Wiff	Time: 1315
Site Name:	Location: tank farm	Date: 10/25/04
TDD #:	Weather/Temperature:	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:	

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Blush		X		
B									
C									

Field Analysis: pH 6 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: ____

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: NA OH	Sampler: A white	Time: 1330
Site Name:	Location: Tank Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	(Full)	3/4	2/3	1/2	1/3	1/4	<1/4	Other	
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:		

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black		X		
B									
C									

Field Analysis: pH 8 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation: Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: F-1RR	Sampler: A whist	Time: 1530
Site Name:	Location: Free tank	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:									
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel			
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing			
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:				
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other MT	
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:		

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)	Field Analysis
A										pH ____ PID ____
B										CGI ____ OVA / FID ____
C										Other

Drum Labels / Markings

DOT ____

UN / NA ____

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: could not open - Empty

Hazcat Data

Radiation Positive * ____

Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: RW-1	Sampler: A Whift	Time: 0900
Site Name:	Location: Tank Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5 Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:	

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Brown		X		
B									
C									

Field Analysis: pH 7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: ____

Hazcat Data

Radiation: Positive * ____ Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-7	Sampler: A W	Time: 1810
Site Name:	Location: Tank farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Brown		X		
B									
C									

Field Analysis: pH 6 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 2 FT 6 inches from top of tank

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group: | Waste Stream:

Bulk Group Number: | Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-8	Sampler: A Witt	Time: 1830
Site Name:	Location: tank farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 5 PID CGI OVA / FID Other
A	✓				Brown		X			Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: 2 ft from top of tank

Hazcat Data

Radiation Positive * Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration Other Test: Spilfyter Strip:

Comments

Bulk Group: | Waste Stream:

Bulk Group Number: | Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: ST-1	Sampler: A Wright	Time: 1845
Site Name:	Location: Tanktown	Date: 6/25/04
TDD #:	Weather/Temperature:	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other	
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:		

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				colorless	X			
B	X				Brown		X		2 ft
C									

Field Analysis: pH 1/1 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address: ____

Chemical Name: ____

Additional Information: ____

Hazcat Data

Radiation - Positive * ____ Negative MREM / HR

Hazard Category: ____

Analyst: ____

Date Performed: ____

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments ____

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CT-6	Sampler: A Whitt	Time: 1730
Site Name:	Location: Taste Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 9 PID ____ CGI ____ OVA / FID ____ Other
A										Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

2 ft from the top (MS/MSD)

Hazcat Data																					
Radiation	Positive *																				
	Negative	MREM / HR																			
	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

Hazard Category:

Analyst:

Date Performed:

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

CONTAINER MADE 11/16/04 (15)

Drum Number: ~~NA OH~~ → SODIUM HYDROXIDE	Sampler: A Whitt	Time: 1430
Site Name:	Location: tank farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 (1/2) 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				colorless	X			
B									
C									

Field Analysis: pH _____ PID _____ CGI _____ OVA / FID _____ Other

Drum Labels / Markings: DOT _____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

NFPA 3 0 2

Hazcat Data

Radiation Positive * _____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration _____ Other Test: _____ Spilfyter Strip: _____

Comments

Bulk Group:

Bulk Group Number:

Waste Stream:

Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: Sulfuric Acid (SA)	Sampler: A Wright	Time: 1345
Site Name:	Location: Tank farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 0 PID CGI OVA / FID Other
A										Drum Labels / Markings
B										DOT
C										UN/NA

Mfg. Name and Address:

Chemical Name:

Additional Information: NFPA = 0 / 3 / 2

Hazcat Data																					
Radiation Positive *																					
Negative MREM / HR																					
	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

Hazard Category:

Analyst:

Date Performed:

PCB Concentration Other Test: Spilfyter Strip:

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: 6107 D	Sampler: A Wright	Time: 1630
Site Name:	Location: Free Tanks	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black			X	1 ft
B	X				Brown		X		
C									

Field Analysis: pH 7 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ *Other Test:* ____ *Spilfyter Strip:* ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: G300D	Sampler: A Whitt	Time: 1610
Site Name:	Location: Fruitrock	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Red		X		
B									
C									

Field Analysis: pH 10 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Liquid of Batteries

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: F 237	Sampler: A Whitt	Time: 1535
Site Name:	Location: Frac tank	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 10 PID ____ CGI ____ OVA / FID ____ Other
A	X				~~Black~~ purple		~~X~~	X		Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data	
Radiation Positive *	
Negative	MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: DAF-5	Sampler: A Whitt	Time: 1240
Site Name:	Location: Tank Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 (1/2) 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 7 PID ____ CGI ____ OVA / FID ____ Other
A	X				Colorless	X				Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ MREM / HR

Negative

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CD-1-5	Sampler: A Whitt	Time: 1020
Site Name:	Location: Tank Farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH 4 PID ____ CGI ____ OVA / FID ____ Other
A										Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information: Crust on top

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CD-3	Sampler: A Wolff	Time: 1040
Site Name:	Location: Tank farm	Date: 8/25/04
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				BLACK			X	1/2 inch
B	X				AMBER		X		Rest of tank
C									

Field Analysis: pH 9 PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

1/2 inch oil layer on top.

Hazcat Data

Radiation: Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: 1 D-2	**Sampler:** A Wh.ff	**Time:** 1100
Site Name:	**Location:** Tank farm	**Date:** 8/25/04
TDD #:	**Weather/Temperature:** original log lost, recreated on Nov 22nd by Randy Nichols (from memo)	

Drum Color:								
Drum Type:	Poly-lined	Fiber	Steel	Poly	Stainless Steel	Nickel		
Lid Type:	Ring-top	Closed-top	Bungs:	Present / Missing	Ring-top:	Present \ Missing		
Drum Condition:	Meet DOT Spec.	Good	Fair	Poor	Explain:			
Drum Size:	110	85	55	42	30	16	10	5	Other
Drum Contents:	Full	3/4	2/3	1/2	1/3	1/4	<1/4	Other
Overpacked:	No	Yes	Overpack Type:	Steel	Poly	Fiber	Overpack Size:	

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH _____ PID _____ CGI _____ OVA / FID _____ Other
A										Drum Labels / Markings
B										DOT
C										UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

1/2 inch oil layer on top

Hazcat Data	
Radiation Positive *	Hazard Category:
Negative MREM / HR	Analyst:
	Date Performed:

	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

PCB Concentration _____ Other Test: _____ Spilfyter Strip: _____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

...m Number: SS-1-S	Sampler: A Whitt	Time: 1600
...e Name:	Location: Tank farm	Date: 8/24/04
...D #:	Weather/Temperature:	

...m Color:

...m Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

...l Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

...um Condition: Meet DOT Spec. Good Fair Poor | Explain:

...um Size: 110 85 55 42 30 16 10 5 Other

...um Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

...verpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

	Physical State				Color	Clarity			Layer Thickness	Field Analysis
	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	(inches)	pH ____ PID ____ CGI ____ OVA / FID ____ Other
1	X				Brown			X	1"	Drum Labels / Markings
2	X				Colorless		X		Rest ...	DOT
3										UN / NA

...lfg. Name and Address:

...hemical Name:

...dditional Information:

Hazcat Data																					
...adiation	Positive *																				
	Negative	MREM / HR																			
	Physical State				Color	Clarity			Water Sol	React *	pH	Hex Sol	Per	Ox	CN	Sul	PCB	Hal	Combust
Layers	Liquid	Solid	Gel	Sludge	use standard colors	Clear	Cloudy	Opaque	S, PS, or I	Air or Water	use std. unit	S or I	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -	+ or -
A																			
B																			
C																			

Hazard Category:

Analyst:

Date Performed:

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group:	Waste Stream:
Bulk Group Number:	Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

DRUM INVENTORY LOG

Drum Number: CS-2	Sampler: A Whitt	Time: 1720
Site Name:	Location: Tank farm	Date: 8/24/94
TDD #:	Weather/Temperature:	

Drum Color:

Drum Type: Poly-lined Fiber Steel Poly Stainless Steel Nickel

Lid Type: Ring-top Closed-top | Bungs: Present / Missing | Ring-top: Present \ Missing

Drum Condition: Meet DOT Spec. Good Fair Poor | Explain:

Drum Size: 110 85 55 42 30 16 10 5 Other

Drum Contents: Full 3/4 2/3 1/2 1/3 1/4 <1/4 Other

Overpacked: No Yes | Overpack Type: Steel Poly Fiber | Overpack Size:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Layer Thickness (inches)
A	X				Black			X	
B									
C									

Field Analysis: pH N/A PID ____ CGI ____ OVA / FID ____ Other

Drum Labels / Markings: DOT ____ UN / NA

Mfg. Name and Address:

Chemical Name:

Additional Information:

Hazcat Data

Radiation Positive * ____ Negative MREM / HR

Hazard Category:

Analyst:

Date Performed:

Layers	Physical State: Liquid	Solid	Gel	Sludge	Color (use standard colors)	Clarity: Clear	Cloudy	Opaque	Water Sol (S, PS, or I)	React * (Air or Water)	pH (use std. unit)	Hex Sol (S or I)	Per (+ or -)	Ox (+ or -)	CN (+ or -)	Sul (+ or -)	PCB (+ or -)	Hal (+ or -)	Combust (+ or -)
A																			
B																			
C																			

PCB Concentration ____ Other Test: ____ Spilfyter Strip: ____

Comments

Bulk Group: | Waste Stream:

Bulk Group Number: | Waste Stream Number:

* If material is Positive for radioactivity or reactivity, perform no further tests.

APPENDIX E

LOGBOOK NOTES

(9 Sheets)

"Rite in the Rain"®
ALL-WEATHER WRITING PAPER

HORIZONTAL LINE

All-Weather Notebook
No. 391

SEVEN-OUT LLC WAYCROSS GA
(BCX CORP.)

4 5/8" x 7" - 48 Numbered Pages

CONTENTS

PAGE	REFERENCE	DATE
	PHONE #S.	
	T. STILLMAN m-561-512-4122	8748
	F. DUNN m-678 773-0792	
	WHITT 678 580-1750	
	MITCHELL 678 687-1965	
	BLYLER 404 667-7111	
	MATTIS 404 808-2624	
	HOTEL: 912 285-5515	
	ADDRESS: 4150 BRUNSWICK HWY.	
	AES LAB. 770 457-8177 ALLISON CANTRELL	
	A&S RENTAL 229-382-5179 BILL	

MON. 8/23/04 SIGN OUT LLC SITE
0800 - CONTINUED EQUIPMENT LOAD OUT.
0845 - DEPARTED START OFFICE (A. WHITT J. MATHEW)
0945 - START REP. R. MATHIS PICKED UP ALONG THE WAY TO SITE.
1345 - ARRIVED O/S.
1415 - PREPARING TO DO PERIMETER AIR MONITORING w/ TVA 1000 & HCN MORE
1500 - AIR READINGS AT CT-1/8 TANKS ARE BACKGROUND.
1505 - DSC T. STILLMAN O/S & GADNR HAZ WASTE DIVISION REP. FRED DUNN O/S.
1605 CT-1 TANK SAMPLED - INVENTORY LOG SHEET USED TO DOCUMENT INFO (PH/PHASES/VOLUME ETC.)
1700 RAIN STOPS WORK TEMPORARILY A&S RENTAL O/S WITH MANLIFT AND LADDERS.
1730 40' EXTENSION LADDER IS TESTED TO SEE IF ACCESS CAN BE MADE TO TANKS OP-1/4.
1800 LADDER USE ON THE 35' TANKS DOES NOT APPEAR GOOD.
1830 DEVELOPING PLAN FOR GETTING THE MANLIFT INSIDE TANK FARM.

1960 EQUIPMENT IS SECURED INSIDE THE ELECTRICAL SWITCH ROOM O/S. BASIC SUPPORT ITEMS ARE TO BE KEPT THERE OVERNIGHT. PLAN IS MADE FOR A RAMP SYSTEM OVER THE SECONDARY CONTAINMENT WALL USING LUMBER CONCRETE BLOCKS + HEAVY DUTY CAR RAMPS. CREW DEPARTS SITE

JL 10

WX: HOT HUMID + OVERCAST, 4 SHOWERS

TUES. 8/24/04

0730 SARA PERSONNEL O/S.

0800 R. NAHAS & A. WHITE TO RESUME SAMPLING OF CT TANKS.
MITCHELL GOES TO LOWES FOR RAMP SUPPLIES. CT-2 SAMPLED-PHOTOS

0830 CT-3 SAMPLED

0845 MITCHELL BACK O/S.

0900 CT-4 SAMPLED

0915 CT5-5 SAMPLED.

1000 MANLIFT DRIVEN INTO THE TANK FARM AREA.

1045 TANK SAMPLING OF OP 1-4 TANKS PLANNED. OP-4 HAS CLOSEST ACCESS.

1100 OP-4 SAMPLED.

1130 OP-2 & 3 ARE INACCESSABLE DUE TO PIPE RUNS AND VENT LOCATION THAT PREVENT SAFE USE OF SCAFOLD SECTIONS.

1200 LUNCH BREAK

1320 SH-1-S SAMPLE COLLECTED

1350 SH-2-S SAMPLE COLLECTED.
OSC STILLMAN IDENTIFIES SOIL SAMPLE LOCATIONS AROUND THE PROPERTY.
4 SAMPLES PLANNED + 1 OUTFALL
1- ADJACENT 1- NEAR FRAC TANKS & BKG.

1420 SH-3-S SAMPLED WITH BAILER.
1510 SH-4-S SAMPLE COLLECTED.
1600 SS-1-S SAMPLE COLLECTED.
1615 RAIN/LIGHTNING STOPS WORK TEMPORARILY.
1720 SS-2 SAMPLE COLLECTED
1800 RW-2 SAMPLE COLLECTED
1815 DP-1 SAMPLE COLLECTED - TWO PHASES A (TOP) 22' WHITE
1850 Sm B (BOTTOM) 2' BLACK
BESS BLYLER O/S - 1700
1850 RP-2 SAMPLE COLLECTED
1900 COOLERS WITH SAMPLES AND GLASSWARE ARE LOADED INTO THE VAN. SITE ACTIVITIES TO RESUME AT 0800.
1930 START + GA DNR DEPART SITE.

8-24-04

WX: Hot, Humid
Chance of T. Storms

W.D. 8/26/09

0800 START PERSONNEL O/S. GADNR O/S
EQUIPMENT SET-UP AND RELOCATING
OF THE MANLIFT OUTSIDE SECONDARY
CONTAINMENT.

0910 RW-1 SAMPLE COLLECTED

0930 CD2-S SAMPLE COLLECTED – BESS BUKER
IS WORKING ON SAMPLE MANAGEMENT
ACTIVITIES. J. MITCHELL MAKES SUPPLY
RUN FOR BAGS (1-GAL & 30GAL) COOLER,
PLASTIC PIPE CUTTER, ICE.

1020 CD-1-S SAMPLE COLLECTED.

1040 CD-3 SAMPLE COLLECTED.

1100 GADNR REP. FRED DUNN DEPARTS
SITE: GADNR REP & J. MITCHELL
TALKED WITH MR. BILLY E. UGLESBY
ABOUT USING HIS PROPERTY FOR
A BACKGROUND SAMPLE. HIS PROPERTY
IS 1017 GEORIA ST.

1115 LUNCH BREAK

1200 BACK O/S.

1240 DAF-S SAMPLE COLLECTED.

1300 ALUM SULFATE (AS) SAMPLE COLLECTED.

1315 FERRIC ACID (EA) SAMPLE COLLECTED.

1330 NACH SAMPLE COLLECTED

1345 Sodium Hydroxide & Sulfuric Acid
Sample Collected.

1526 Trip Blank sample processed.
1630 G-107D SAMPLE COLLECTED
1430 - VOCH SAMPLE COLLECTED
SODIUM HYDROXIDE TANK IS
SLOWLY DRIPPING. PH AROUND
STANDING H2O INSIDE CONTAINMENT
IS 13 w/ ph paper.
1530 FRAC TANK SAMPLING
CONDUCTED. FS1RR TOP
WAS SEALED SHUT. ACCESS
WITH ROPE ONLY CONFIRMED
TANK WAS EMPTY.
1745 SOIL SAMPLING ACTIVITIES
INITIATED AT SOUTH WALL OF
TANK FARM/ DRAINAGE DITCH
AND FRAC TANK AREA.
1845 S1-1 SAMPLE COLLECTED.
1900 SAMPLE MANAGEMENT
ACTIVITIES AND LOADING
THE VAN WITH COLLECTED
SAMPLES.
1935 DEPARTED SITE FOR THE
DAY.

8/25/04

HRS. 8/26/94

0800 START MEMBERS O/S.

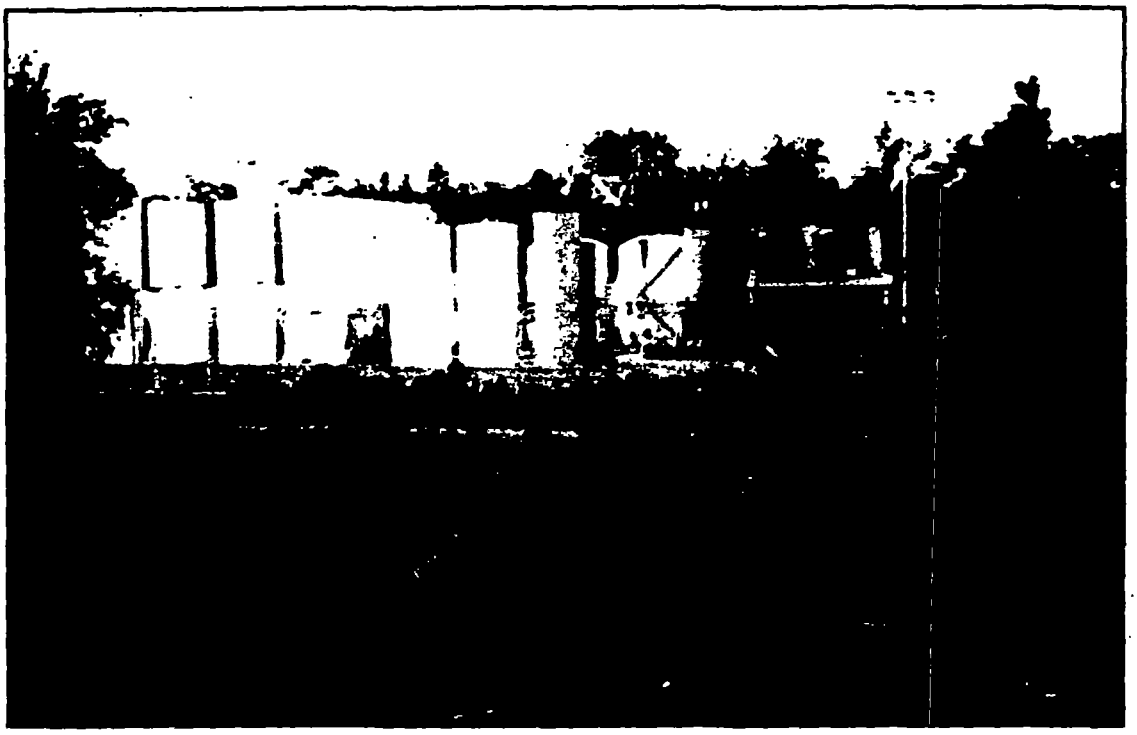
0815 SITE CLEAN UP RESUMES FROM YESTERDAY. SLUDGE JUNKS BEING CUT INTO SMALL SECTIONS FOR PLACEMENT IN GARBAGE BAGS.

0840 MITCHELL CALLENTS BACKGROUND SOIL SAMPLE FROM MR. OGLEBY'S OPEN PROPERTY. SAMPLE LOCATION WAS NEAR THE INTERSECTION OF HAMILTON ST. AND SEWEL ST.

0900 RE-ICING OF SAMPLES, DOUBLE CHECKING C-O-C AGAINST THE COOLER CONTENTS UNDERWAY.

1015 INFORMED PLANT MGR MR. DUMARIO OF OUR WRAP-UP & TURNO OVER HIS SPLIT SAMPLES.

1045 FINAL LOAD OUT OF EQUIPMENT AND SAMPLES. DEPARTED SITE. ALL SAMPLES WILL BE HAND DELIVERED TO AES LABS THIS AFTERNOON.



OFFICIAL PHOTOGRAPH NO. 1
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: View of the facility from the frac tanks.

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: North

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

OFFICIAL PHOTOGRAPH NO. 2
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of CT-6 tank with sludge judge.

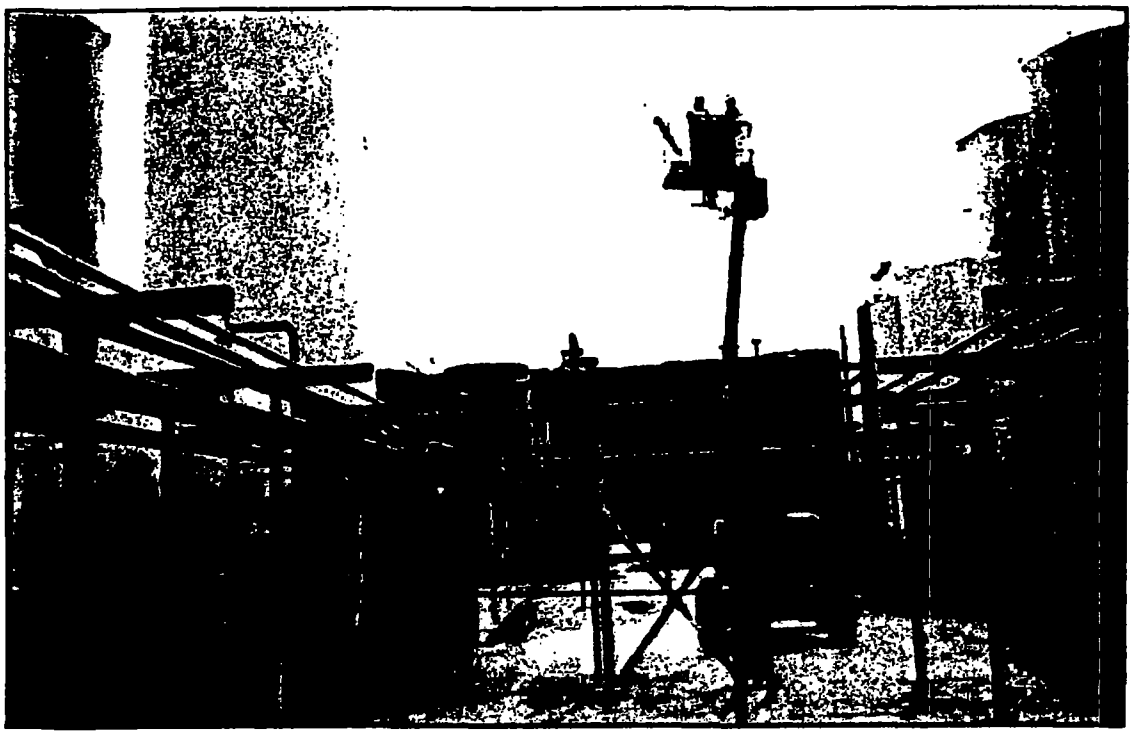
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: East

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 3
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Operation of the 40-foot Z-boom inside the tank farm.

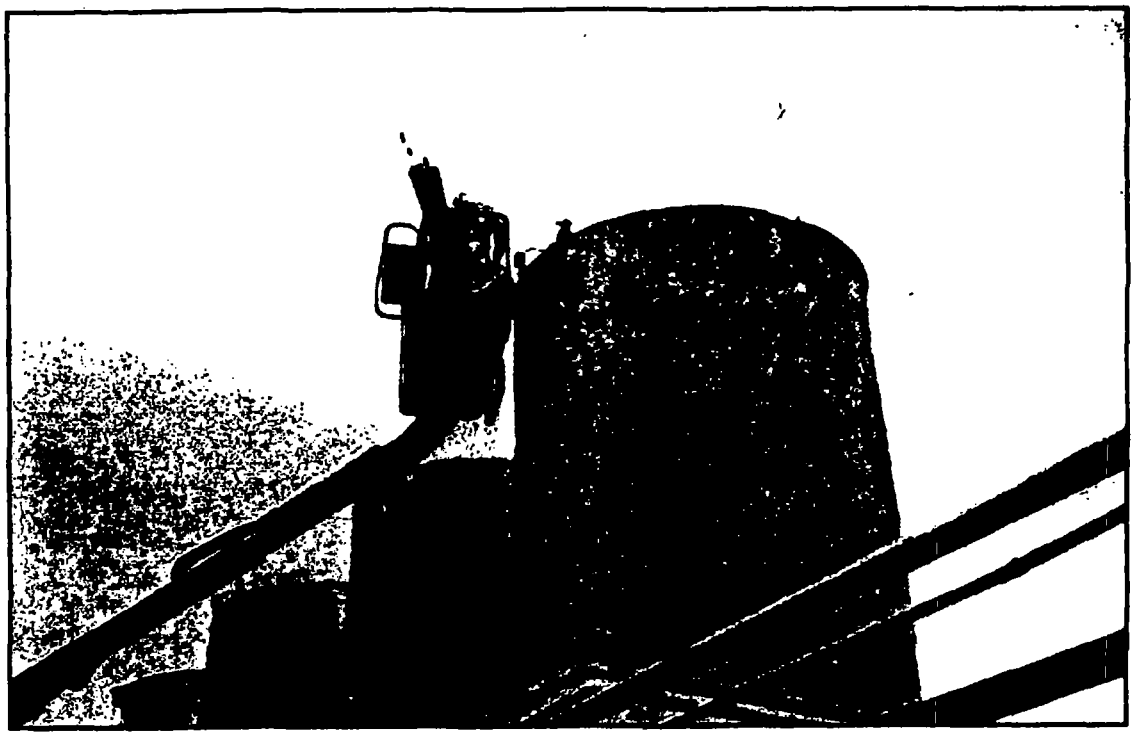
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 24, 2004

Orientation: East

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 4
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of Tank SH-1.

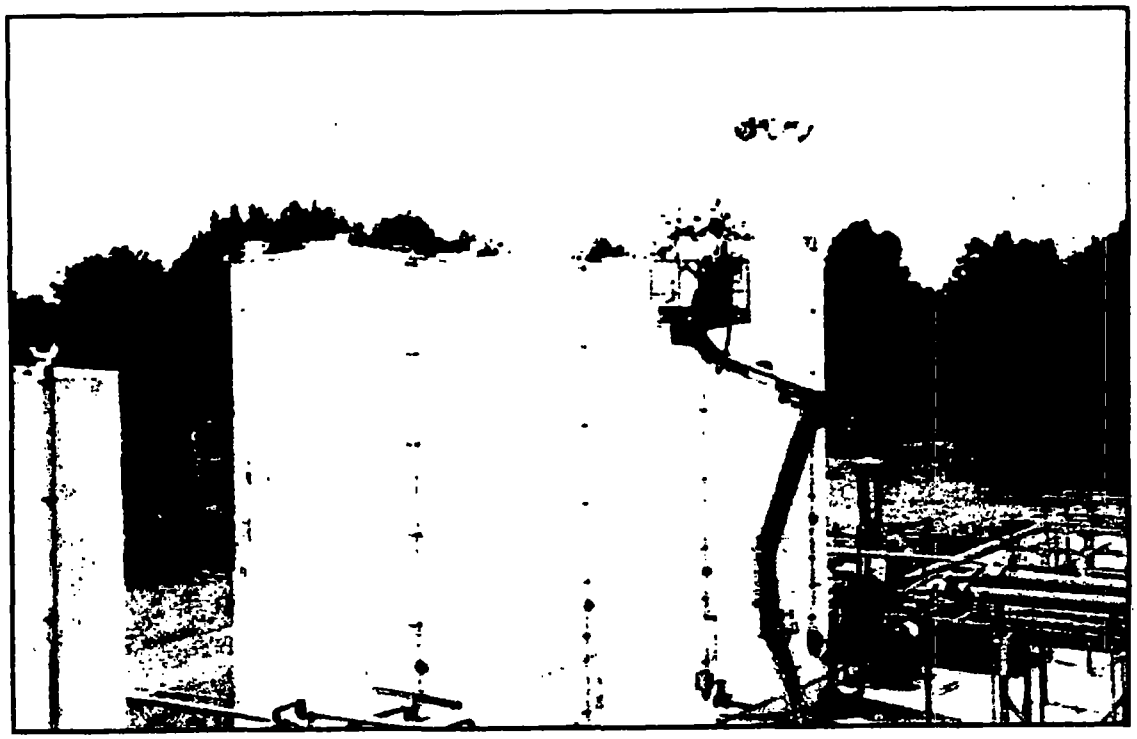
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 24, 2004

Orientation: Southeast

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 5
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of tank SH-2.

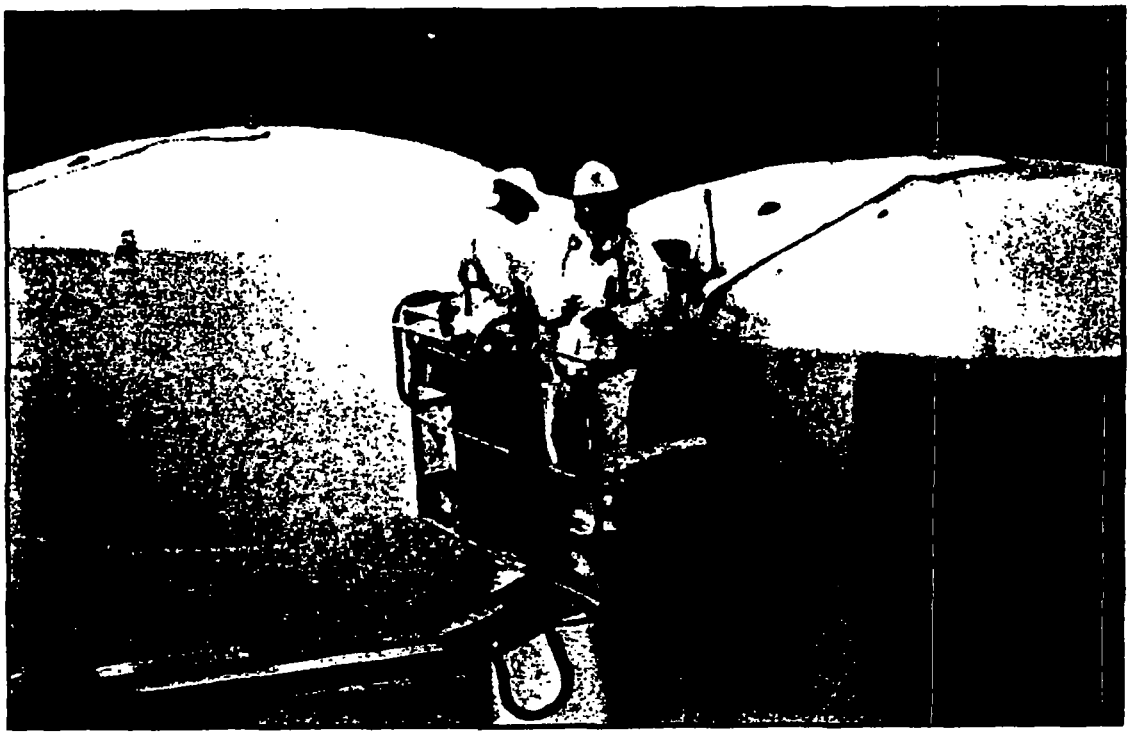
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 24, 2004

Orientation: Southwest

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 6
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of tank DP-1.

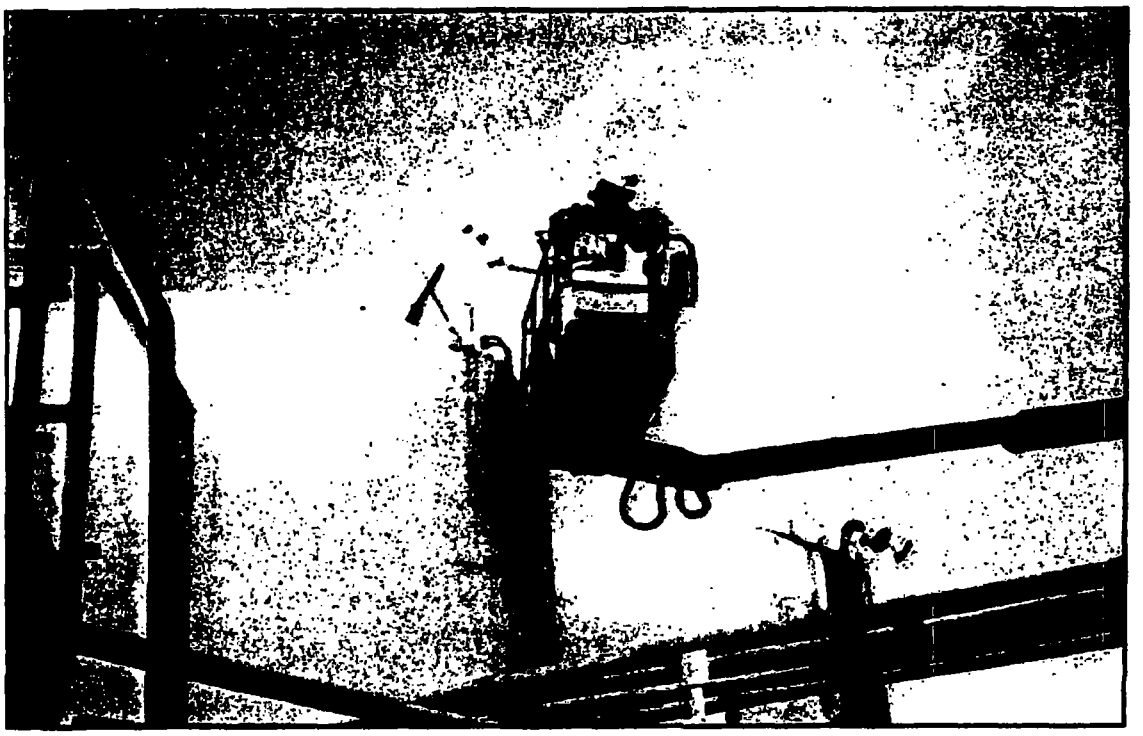
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 24, 2004

Orientation: West

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 7
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of tank DP-2.

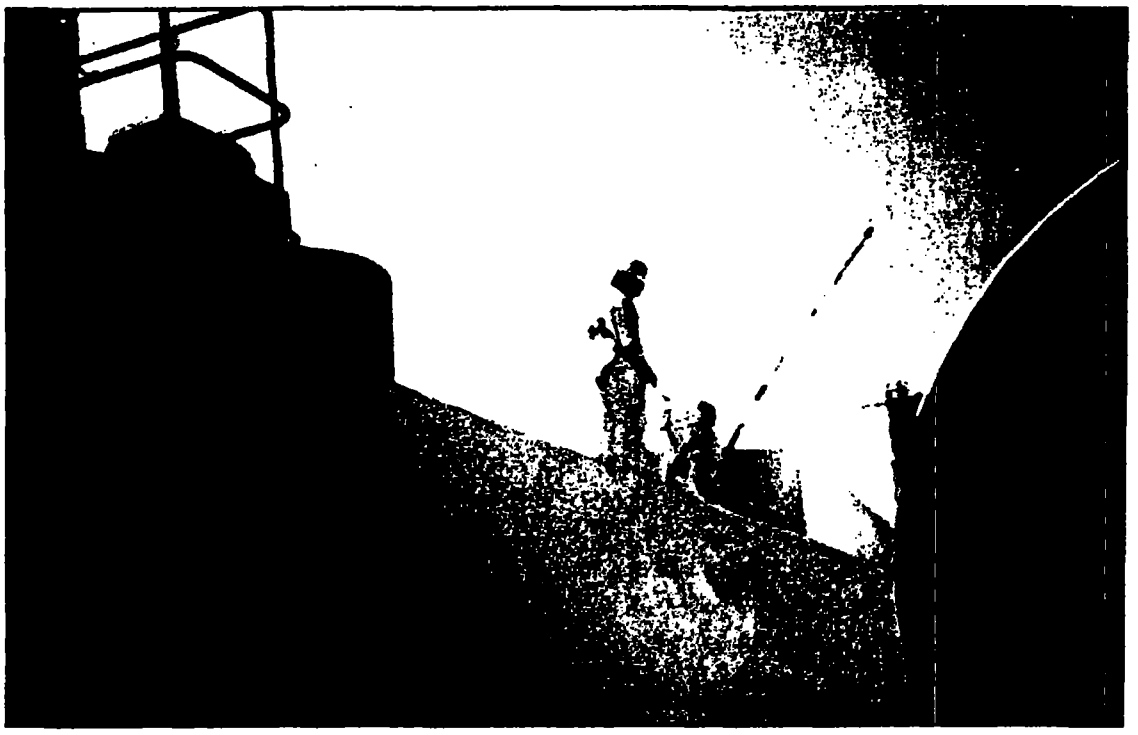
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 24, 2004

Orientation: Northeast

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 8
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling of tank CD-2.

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: North

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

OFFICIAL PHOTOGRAPH NO. 9
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Frac tanks located south of the tank farm.

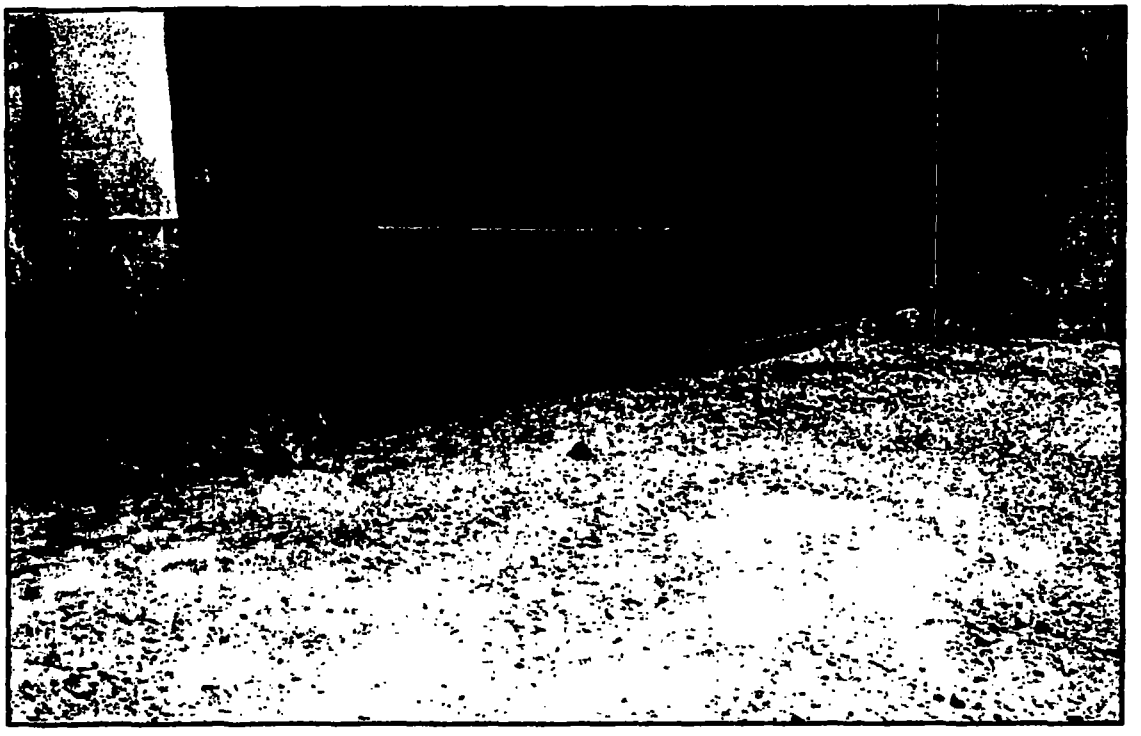
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: South

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 10
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Frac tank G300D with stained soil possibly resulting from a past release.

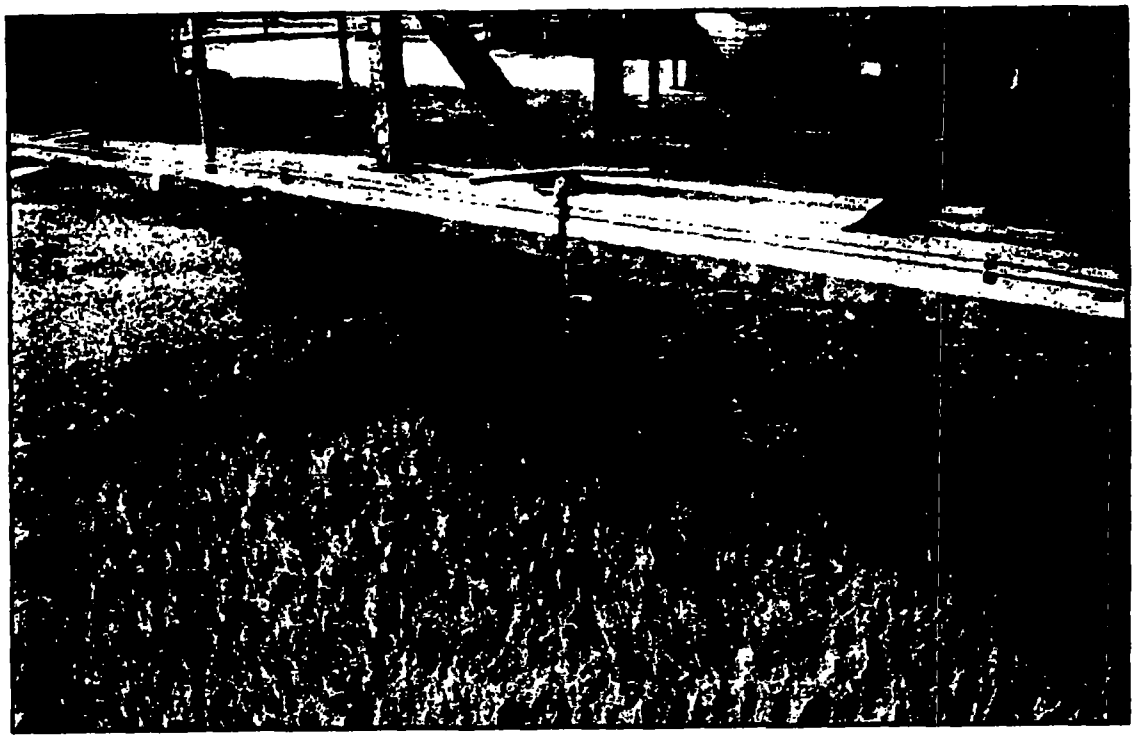
Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: South

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.



OFFICIAL PHOTOGRAPH NO. 11
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling location for soil sample SO-SW.

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: North

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

OFFICIAL PHOTOGRAPH NO. 12
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling location for soil sample SO-DD.

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004

Orientation: East

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

OFFICIAL PHOTOGRAPH NO. 13
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling location for soil sample SO-FRT.

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 25, 2004 **Orientation:** North

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

OFFICIAL PHOTOGRAPH NO. 14
U.S. ENVIRONMENTAL PROTECTION AGENCY

Subject: Sampling location for soil sample SO-BG (background sample).

Site: Seven Out, LLC
Waycross, Ware County, Georgia

Date: August 26, 2004

Orientation: North

Photographer: John Mitchell,
Tetra Tech EM, Inc.

Witness: Randy Nattis,
Tetra Tech EM, Inc.

APPENDIX G

TABLE OF WINESSES

(One Sheet)

TABLE OF WITNESSES

Terry Stilman
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Randy Nattis
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Whitt Environmental Services, Inc.
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Suite 403-174
Lawrenceville, GA 30043
(678) 520-1750

APPENDIX H

DATA VALIDATION REPORT AND QUALIFIED DATA TABLES

(27 Sheets)

December 9, 2004

Mr. Terry Stilman
U.S. Environmental Protection Agency, Region 4
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

Subject: **Data Validation Report**
Seven Out Site
Waycross, Georgia
Analytical Environmental Services, Inc.
Laboratory Lot Number: 0408B38

Volatile Organic Compounds:	31 Aqueous and 4 Solid Samples and 1 Trip Blank
Semivolatile Organic Compounds:	33 Aqueous and 4 Solid Samples
Total Metals:	33 Aqueous and 4 Solid Samples
Total Mercury:	33 Aqueous and 4 Solid Samples
TCLP Metals:	29 Aqueous and 4 Solid Samples
TCLP Mercury:	29 Aqueous and 4 Solid Samples

Dear Mr. Stilman:

Data validation was performed on the analytical data for 34 aqueous and 4 solid samples collected by Tetra Tech EM Inc. (Tetra Tech) Superfund Technical Assessment and Response Team (START) at the Seven Out site in Waycross, Georgia,, on August 24 and 25, 2004. The samples were analyzed under Laboratory Lot Number 0408B38 by Analytical Environmental Services, Inc., of Atlanta, Georgia. The samples were analyzed for volatile organic compounds (VOC) by SW-846 Methods 5030B and 8260B; semivolatile organic compounds (SVOC) by SW-846 Methods 3520, 3550A, and 8270C; total metals by SW-846 Methods 3010A, 3050B, and 6010B; total mercury by SW-846 Methods 7470A and 7471A; toxicity characteristic leaching procedure (TCLP) metals by SW-846 Methods 1311, 3010A, and 6010B; and TCLP mercury by SW-846 Methods 1311 and 7470A. Due to the nature of their matrices, the laboratory treated four aqueous samples (CD-1-S, CD-3-S, SH-4-S, and SS-2-S) as "waste" samples, so the results for them are reported on a per kilogram basis.

Analytical data was evaluated in general accordance with all applicable data validation guidance documents, including the following: the US EPA Contract Laboratory Program National Functional Guidelines (NFG) for Organic Data Review (EPA, October 1999) and the US EPA Contract Laboratory Program NFGs for Inorganic Data Review (EPA, July 2002). The analytical methods that were used by the fixed laboratories during this project provide guidance on procedures and method acceptance criteria that, in some areas, differ from that given in the NFGs. Where differences exist between the methods and the NFGs, the data validators followed the acceptance criteria given in the methods. In addition, if the fixed laboratory data package presented laboratory-derived acceptance criteria, then these criteria were used to evaluate the data, unless the criteria were considered inadequate. Data evaluation was based on the following parameters:

- Data Completeness
- Holding Times
- Gas Chromatography and Mass Spectrometry (GC/MS) Instrument Performance Check
- Initial and Continuing Calibrations
- Blanks
- Inductively Coupled Plasma Interference Check Samples
- Inductively Coupled Plasma Serial Dilution
- Surrogate Recoveries
- Matrix Spike/Matrix Spike Duplicates and Matrix Duplicates
- Field Duplicates
- Laboratory Control Samples
- Internal Standards
- System Performance
- Compound Quantitation
- Compound Identification
- Tentatively Identified Compounds (TIC)

The following data validation approach was used; it should meet the needs of most data uses and requirements for limits on decision-making uncertainty for the data. This approach consisted of a review of all of the data, including the raw data (which was provided by the fixed laboratory in electronic form). This data validation effort constituted a full validation of the data and involved a 100 percent check against applicable acceptance criteria of all quality control (QC) parameter data, including those parameters listed above. In addition, all data pertaining to analyte identification, such as chromatograms and mass spectra, were checked completely (100 percent) to evaluate the accuracy of analyte identification. This effort also involved an in-depth quantitative check of a fraction of the data; this check included the recalculation of QC results (such as percent recoveries [%R] and relative percent difference [RPD] values) and target analyte results from the raw data. Recalculations were conducted at

a frequency of around 10 percent for those data that were transcribed and generated by hand. For data that were calculated by software, recalculations were conducted at varying frequencies and to the extent necessary to confirm the adequacy of the software. If errors or discrepancies were encountered during the recalculation and checking of any data, the extent of the data check was expanded, as necessary, to determine the full extent of the problem.

Tables 1 and 2 summarize the qualified analytical results for aqueous and soil samples, respectively (see Enclosure 1).

1.0 DATA COMPLETENESS

The data package for Laboratory Lot Number 0408B38 was complete except that the raw data for the VOC and SVOC analyses did not include mass spectra and no TIC data were presented. TCLP metals for samples NAOH, Sodium Hydroxide, ST-1, and Sulfuric Acid were requested on the chain-of-custody record, but were not performed because of the sample matrix. VOC analyses for samples Sodium Hydroxide and Sulfuric Acid were also not performed because of the sample matrix.

2.0. HOLDING TIMES

The holding times were met for all analyses of the samples. The temperatures of the sample coolers varied from 3.1 to 5.4 degrees Celsius upon arrival at the laboratory.

3.0 GC/MS INSTRUMENT PERFORMANCE CHECK

All GC/MS instrument performance checks for the VOC and SVOC analysis met the acceptance criteria.

4.0 INITIAL AND CONTINUING CALIBRATIONS

The initial and continuing calibrations were analyzed at the proper frequencies and concentrations and met all requirements, with the following exceptions.

The VOC analyses used three instruments, four initial calibrations, and eight continuing calibrations. In the initial calibrations a few analytes had relative standard deviations (RSD) exceeding the 30 percent QC limit. However, the laboratory calculated these results by linear regression and found coefficients of determination of 0.995 or higher for all. Therefore, no qualifications are warranted for initial calibration irregularities.

On instrument GCMS-5, the 30 August continuing calibration had excessive (greater than 25 percent) percent differences (%D) from the initial calibration for acetone, bromomethane, carbon tetrachloride, and methylene chloride. The only affected result was the acetone result in the 5,000-fold dilution of sample OP-4-S, which was flagged "J" to indicate that it is estimated. The 31 August continuing calibration had an excessive %D for methylene chloride. Therefore, sample reporting limits for that compound were flagged "UJ" in samples CD-1-S, CD-3-S, F237, FA-S, G107D, G300D, RW-1-S, RW-2-S, SH-1-S, SH-2-S, SH-3-S, SH-4-S, SS-1-S, SS-2-S, CT-7, CT-8, and ST-1. The 1 September continuing calibration for instrument GCMS-5 had excessive %Ds for bromomethane and methylene chloride. Because that continuing calibration was used only for determination of acetone at high dilutions in several samples, no qualifications are required.

On instrument GCMS-12, the 31 August continuing calibration had an excessive %D for methyl acetate. The nondetect results for that compound in samples AS-S, CD-2-S, CT-1-S, CT-2-S, CT-3-S, CT-4-S, CT-5-S, CT-6-S, DP-1-S Layer A, DP-1-S Layer B, and DP-2-S were flagged "UJ" to indicate that the sample reporting limits are estimated. The 1 September continuing calibration had excessive %Ds for acetone, dichlorodifluoromethane, and methyl acetate. Therefore, all three compounds were flagged "UJ" as estimated in sample DAF-S, but only acetone in sample SH-3-S, because only that compound was quantitated in the 100-fold dilution of the sample. The 2 September continuing calibration of instrument GCMS-12 had excessive %D results for 2-butanone, 2-hexanone, acetone, dichlorodifluoromethane, and methyl acetate. The results for those compounds in the only associated sample, the trip blank, were flagged "UJ" to indicate that the sample reporting limits are estimated.

The VOC analyses of the soil samples were performed on instrument GCMS-7. The first continuing calibration, performed on 30 August, had excessive %Ds for 1,2-dibromo-3-chloropropane, 2-butanone, acetone, chloromethane, dichlorodifluoromethane, methyl tert-butyl ether, tetrachloroethene, and trichlorofluoromethane. The sample reporting limits for those compounds in the only associated sample, SO-FRT, were flagged "UJ" to indicate that they are estimated. The 31 August continuing calibration had excessive %D results for all of the above-named compounds plus Freon-113 (1,1,2-trichloro-1,2,2-trifluoroethane) and trichloroethene. The sample reporting limits for those compounds were flagged "UJ" to indicate that they are estimated in the other soil samples, SO-BG, SO-DD, and SO-SW.

The SVOC analyses used two instruments, three initial calibrations, and ten continuing calibrations. As with the VOC analyses, a few analytes in each initial calibration had RSD exceeding the 30 percent QC limit. However, the laboratory calculated these results by linear regression and found coefficients of determination of 0.995 or higher for all. Therefore, no qualifications are warranted for initial calibration problems. In addition, almost all of the continuing calibrations had all analytes within QC limits. The first exception was the 2 September continuing calibration on instrument MS9, which had an excessive %D for benzaldehyde. This continuing calibration was used only to determine phenol in some diluted samples, so no qualifications are warranted. The other exception was the 3 September continuing calibration on instrument MS10, which had excessive %Ds for butyl benzyl phthalate and benzo(k)fluoranthene. The sample reporting limits for those analytes in sample DP-1-S Layer A were flagged "UJ" to indicate that they are estimated. That same continuing calibration gave negligible response to phenol, possibly because the compound was omitted from the calibration mixture. Phenol was determined in diluted re-analyses of samples G107D, OP-4-S, CT-7, and CT-8 after that continuing calibration. The phenol results for those samples were flagged "J" to indicate the uncertainty caused by the lack of verification of the calibration.

5.0 BLANKS

The trip blank contained no VOCs. Calibration blanks and method blanks were free of target analytes in all analyses, with the following exception. One continuing calibration blank in the soil metals analyses contained some selenium. Since none of the samples contained any selenium, no qualifications are warranted.

6.0 INDUCTIVELY COUPLED PLASMA INTERFERENCE CHECK SAMPLES

The ICP interference check samples (ICS) results were within acceptable limits with the following exceptions. One pair of samples analyzed on 1 September with aqueous samples had essentially zero recoveries (very small positive and negative results in the raw data) for all analytes and looked very much like laboratory blanks. No qualifications are warranted, because this appears to be a laboratory error in loading the tray of vials for analysis. However, two sets of ICS samples analyzed with the soil samples gave potassium recoveries of 147 and 145 percent, respectively, versus QC limits of 80 to 120 percent. The positive potassium results in the soil samples were flagged "J" to indicate that they are estimated and may be biased high.

7.0 INDUCTIVELY COUPLED PLASMA SERIAL DILUTION

ICP serial dilutions were analyzed and gave acceptable results with one exception. In the aqueous serial dilution analysis performed on sample CT-6-S, calcium recovery was 116 percent, just above the QC limits of 85 to 115 percent. All aqueous results for calcium were flagged "J" to indicate the apparent matrix interference.

8.0 SURROGATE RECOVERIES

Surrogate recoveries for VOC and SVOC analyses were within specified control limits, with the following exceptions.

In the VOC analyses, all surrogate irregularities involved 4-bromofluorobenzene in the soil samples. Recoveries were somewhat below the QC limits of 65 to 133 percent in samples SO-BG, SO-DD, and SO-SW, at 58 to 63 percent. Therefore, all VOC results for those samples were flagged "J" or "UJ", as appropriate, to indicate that they are estimated due to apparent matrix interference. Sample SO-FRT had a low, but acceptable, recovery of 66 percent, but the MS/MSD samples created from sample SO-FRT had low recoveries of 64 and 64 percent. No qualifications were applied to the parent sample results for the irregularities in the QC samples.

In the SVOC analyses, a number of samples had one surrogate outside QC limits, or one acidic surrogate and one base/neutral surrogate outside of their respective limits. No qualifications are warranted for these irregularities. However, three samples, DP-1-S Layer B, SH-2-S, and SH-3-S, had recoveries for two of the three acidic surrogates outside QC limits. Therefore, all results for acidic compounds in those three samples were flagged "J" or "UJ", as appropriate, to indicate that they are considered estimated because of matrix interference. Sample DP-1-S Layer A had irregular recoveries for two of its acidic surrogates and for all three of its base/neutral surrogates. Therefore, all results for that sample were flagged "J" or "UJ", as appropriate, to indicate that they are considered estimated because of serious matrix interference. In a number of samples, recovery of the acidic surrogate 2,4,6-tribromophenol was zero. The NFG state that all non-detected acidic results in those samples should be rejected. Examination of the chromatograms of the affected samples showed a large mass of non-target compounds with retention times similar to those of the surrogate. The presence of these compounds created a "hump" from which the surrogate peak could not be separated. As a matter of professional judgment, the associated acidic compound results were considered to be estimated, rather than rejected, for this localized matrix interference.

9.0 MATRIX SPIKE/MATRIX SPIKE DUPLICATES AND MATRIX DUPLICATES

MS/MSD recoveries were within the specified control limits, with the following exceptions, all involving recoveries in the SVOC and total metals analyses. Aqueous MS/MSD analyses were performed using sample CT-6-S. In the SVOC analyses, control limits were not applied for phenol because the unspiked sample result was greater than 25 times the spike concentration. No qualifications are warranted for this data gap. Recoveries for potassium and sodium could not be determined because the unspiked sample contained more than four times as much as the spike. No qualifications are warranted for this data gap. However, there were low recoveries for aluminum (53 and 54 percent from the MS and MSD samples, respectively; 62 percent from the post-digestion spike [PDS]), barium (68 and 70 percent; 74 percent from the PDS), and thallium (72 and 74 percent; 84 percent from the PDS spike), versus the QC limits of 75 to 125 percent. Therefore, all aqueous aluminum, barium, and thallium results were flagged "J" or "UJ", as appropriate, to indicate that they are considered estimated.

The soil MS/MSD analyses were performed using sample SO-FRT. Calcium and iron recoveries could not be determined because the unspiked sample contained much more than the spike. No qualifications are warranted for these data gaps. However, antimony recoveries were only 73 and 71 percent (92 percent in the PDS), versus QC limits of 75 to 125 percent. The antimony results in the soil samples were flagged "UJ" to indicate that the results are considered estimated because of apparent matrix interference.

The waste MS analysis was performed using sample CD-1-S. Due to insufficient sample, no MSD analysis was performed. Calcium and sodium recoveries could not be determined because the unspiked sample contained much more than the spike. No qualifications are warranted for these data gaps. Zinc recovery was 74 percent (94 percent in the PDS), just below the QC limits of 75 to 125 percent. The zinc results in the waste samples were flagged "J" to indicate that they are considered estimated because of apparent matrix interference.

10.0 FIELD DUPLICATES

No field duplicate samples were collected or analyzed.

11.0 LABORATORY CONTROL SAMPLES

All laboratory control sample (LCS) results were within their various QC limits.

12.0 INTERNAL STANDARDS

For the semivolatile and volatile analyses, the internal standard retention times in the samples were within QC limits established using the associated continuing calibration standard data in all cases. The internal standard area counts were within their QC limits of 50 to 200 percent with the following exceptions. In the VOC analysis of aqueous sample DP-2-S, matrix interference resulted in low area counts for pentafluorobenzene, 1,4-difluorobenzene, and chlorobenzene-d5, the first three of the four internal standards. In soil sample SO-BG, the fourth internal standard, 1,4-dichlorobenzene-d4, had an area count below the QC limits, also a result of apparent matrix interference. The analytes in those two

samples that are quantitated against the internal standards with irregular recoveries were flagged "J" or "UJ", as appropriate, to indicate that their concentrations are considered estimated.

In the SVOC analyses, aqueous samples CD-3-S, CT-3-S, CT-5-S, SH-1-S, SH-2-S, and SS-1-S and soil sample SO-DD had high area counts, as much as 800 percent, for chrysene-d12, the fifth of six internal standards. This may be a result of the co-elution of the internal standard with some unidentified non-target compound or compoounds of these samples. The compounds quantitated against that internal standard (3,3'-dichlorobenzidine, benzo(a)anthracene, bis(2-ethylhexyl)phthalate, butyl benzyl phthalate, chrysene, and pyrene) were flagged "UJ" to indicate the uncertainty in their sample reporting limits as a result of the interference.

13.0 SYSTEM PERFORMANCE

No signs of degraded instrument performance were observed. Analytical systems were judged to have been within control and stable during the course of these analyses.

14.0 COMPOUND QUANTITATION

Sample results were checked for proper dilution factors, volumes, masses, and adjustments for moisture content. Samples were correctly calculated. The laboratory does not report results less than the laboratory reporting limit. Many samples contained high concentrations of analytes, of non-target analytes, or of both. Therefore the initial analyses of some samples were performed at 10-fold or 20-fold dilutions, with corresponding higher sample reporting limits. In addition, a number of samples had one or more analytes with concentrations above the instrument's calibration range. Therefore, the samples were re-analyzed at a dilution, as much as 500 times the original analysis, to bring the results within calibration range. Although it took as many as three analyses of a sample to bring the results within calibration range, all reported positive results were within calibration range, so no extrapolations were reported. Therefore, no qualifications were required because of quantitation irregularities.

15.0 COMPOUND IDENTIFICATION

The relative response times (RRT) of the reported compounds in the volatile and semivolatile analyses were within ±0.06 RRT units of the standard relative retention times. The laboratory did not present mass spectra, so the identity of the analytes could not be fully verified.

16.0 TENTATIVELY IDENTIFIED COMPOUNDS

No tentatively identified compound results were presented. It was noted in the chromatograms from the VOC and SVOC analyses that many samples contained large amounts of numerous compounds not on the analyte lists. The raw data included results for a number of VOCs and SVOCs included in the calibration standards, but not reported here. In particular, vinyl acetate was a major component of many samples and a number of other compounds were also detected in one or more samples.

17.0 OVERALL ASSESSMENT OF DATA

The overall quality of this data package was acceptable. The primary reason for qualification of the data is the inherent nature of the samples. Many samples contained large concentrations of many analytes and

non-target analytes that caused significant matrix interference. Because the analytical methods were optimized to detect and determine trace quantities of analytes, these high concentrations resulted in problems with surrogate, MS/MSD, and internal standard results. The data may be used, as qualified, for any purpose.

If you have any questions or need further information, please contact the undersigned at (404) 225-5516.

Sincerely,

John Schendel
Data Validation Coordinator

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETER	SO-BG	SO-DD	SO-FRT	SO-SW
TCLP, Metals (mg/L)				
Arsenic	0.250 U	0.250 U	0.250 U	0.250 U
Barium	0.500 U	0.500 U	0.500 U	0.500 U
Cadmium	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Chromium	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Lead	0.0500 U	8.1300	0.0500 U	0.0690
Selenium	0.100 U	0.100 U	0.100 U	0.100 U
Silver	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Metals (mg/kg)				
Aluminum	623	1860	586	2180
Antimony	3.93 UJ	3.59 UJ	3.75 UJ	4.2 UJ
Arsenic	3.93 U	3.59 U	3.75 U	151
Barium	3.93 U	15.5	7.11	75.2
Beryllium	1.96 U	1.8 U	1.87 U	2.1 U
Cadmium	1.96 U	1.8 U	1.87 U	2.1 U
Calcium	234	7740	1530	3130
Chromium	1.96 U	7.93	1.87 U	8.69
Cobalt	1.96 U	1.8 U	1.87 U	3.46
Copper	1.96 U	59.2	17.8	107
Iron	596	4910	1080	10800
Lead	3.93 U	17.7	10.8	264
Magnesium	39.3 U	507	58.5	143
Manganese	4.26	74.7	8.22	169
Nickel	3.93 U	3.59 U	3.75 U	4.62
Potassium	78.5 U	80.3 J	74.9 U	92.1 J
Selenium	3.93 U	3.59 U	3.75 U	4.2 U
Silver	1.96 U	1.8 U	1.87 U	2.1 U
Sodium	247	470	389	204
Thallium	3.93 U	3.59 U	3.75 U	4.2 U
Vanadium	3.93 U	5.34	3.75 U	8.58
Zinc	4.11	32.3	8.32	518
Mercury	0.0987 U	0.0992 U	0.0994 U	0.35
Volatiles Organic Compounds (ug/kg)				
1,1,1-Trichloroethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,1,2,2-Tetrachloroethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,1,2-Trichloroethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,1-Dichloroethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,1-Dichloroethene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,2,4-Trichlorobenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,2-Dibromo-3-chloropropane	6.6 UJ	3.5 UJ	5.3 UJ	3.8 UJ
1,2-Dibromoethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,2-Dichlorobenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,2-Dichloroethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,2-Dichloropropane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,3-Dichlorobenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
1,4-Dichlorobenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
2-Butanone	13 UJ	7 UJ	11 UJ	7.6 UJ
2-Hexanone	13 UJ	7 UJ	11 U	7.6 UJ
4-Methyl-2-pentanone	13 UJ	7 UJ	11 U	7.6 UJ
Acetone	13 UJ	70 UJ	110 UJ	75.6 UJ
Benzene	6.6 UJ	32 J	5.3 U	3.8 UJ
Bromodichloromethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Bromoform	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Bromomethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Carbon disulfide	13 UJ	10 J	11 U	7.6 UJ

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETER	SO-BG	SO-DD	SO-FRT	SO-SW
Volatiles Organic Compounds (ug/kg) (Cont.)				
Carbon tetrachloride	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Chlorobenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Chloroethane	13 UJ	7 UJ	11 U	7.6 UJ
Chloroform	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Chloromethane	13 UJ	7 UJ	11 UJ	7.6 UJ
cis-1,2-Dichloroethene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
cis-1,3-Dichloropropene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Cyclohexane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Dibromochloromethane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Dichlorodifluoromethane	13 UJ	7 UJ	11 UJ	7.6 UJ
Ethylbenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Freon-113	13 UJ	7 UJ	11 U	7.6 UJ
Isopropylbenzene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
m,p-Xylene	13 UJ	7 UJ	11 U	7.6 UJ
Methyl acetate	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Methyl tert-butyl ether	6.6 UJ	3.5 UJ	5.3 UJ	3.8 UJ
Methylcyclohexane	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Methylene chloride	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
o-Xylene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Styrene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Tetrachloroethene	6.6 UJ	3.5 UJ	5.3 UJ	3.8 UJ
Toluene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
trans-1,2-Dichloroethene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
trans-1,3-Dichloropropene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Trichloroethene	6.6 UJ	3.5 UJ	5.3 U	3.8 UJ
Trichlorofluoromethane	6.6 UJ	3.5 UJ	5.3 UJ	3.8 UJ
Vinyl chloride	13 UJ	7 UJ	11 U	7.6 UJ
Semivolatile Organic Compounds (ug/kg)				
1,1'-Biphenyl	330 U	330 U	330 U	330 U
2,4,5-Trichlorophenol	1700 U	1700 U	1700 U	1700 U
2,4,6-Trichlorophenol	330 U	330 U	330 U	330 U
2,4-Dichlorophenol	330 U	330 U	330 U	330 U
2,4-Dimethylphenol	330 U	330 U	330 U	330 U
2,4-Dinitrophenol	1700 U	1700 U	1700 U	1700 U
2,4-Dinitrotoluene	330 U	330 U	330 U	330 U
2,6-Dinitrotoluene	330 U	330 U	330 U	330 U
2-Chloronaphthalene	330 U	330 U	330 U	330 U
2-Chlorophenol	330 U	330 U	330 U	330 U
2-Methylnaphthalene	330 U	610	330 U	330 U
2-Methylphenol	330 U	330 U	330 U	330 U
2-Nitroaniline	1700 U	1700 U	1700 U	1700 U
2-Nitrophenol	330 U	330 U	330 U	330 U
3,3'-Dichlorobenzidine	670 U	670 UJ	670 U	670 U
3-Nitroaniline	1700 U	1700 U	1700 U	1700 U
4,6-Dinitro-2-methylphenol	1700 U	1700 U	1700 U	1700 U
4-Bromophenyl phenyl ether	330 U	330 U	330 U	330 U
4-Chloro-3-methylphenol	330 U	330 U	330 U	330 U
4-Chloroaniline	330 U	330 U	330 U	330 U
4-Chlorophenyl phenyl ether	330 U	330 U	330 U	330 U
4-Methylphenol	330 U	330 U	330 U	330 U
4-Nitroaniline	1700 U	1700 U	1700 U	1700 U
4-Nitrophenol	1700 U	1700 U	1700 U	1700 U
Acenaphthene	330 U	330 U	330 U	330 U
Acenaphthylene	330 U	330 U	330 U	1300
Acetophenone	330 U	330 U	330 U	330 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETER	SO-BG	SO-DD	SO-FRT	SO-SW
Semivolatile Organic Compounds (ug/kg) (Cont.)				
Anthracene	330 U	330 U	330 U	1000
Atrazine	330 U	330 U	330 U	330 U
Benz(a)anthracene	330 U	330 UJ	330 U	2400
Benzaldehyde	330 U	330 U	330 U	330 U
Benzo(a)pyrene	330 U	330 U	330 U	2800
Benzo(b)fluoranthene	330 U	330 U	330 U	1800
Benzo(g,h,i)perylene	330 U	330 U	330 U	2400
Benzo(k)fluoranthene	330 U	330 U	330 U	3200
Bis(2-chloroethoxy)methane	330 U	330 U	330 U	330 U
Bis(2-chloroethyl)ether	330 U	330 U	330 U	330 U
Bis(2-chloroisopropyl)ether	330 U	330 U	330 U	330 U
Bis(2-ethylhexyl)phthalate	330 U	330 UJ	330 U	330 U
Butyl benzyl phthalate	330 U	330 UJ	330 U	330 U
Caprolactam	330 U	330 U	330 U	330 U
Carbazole	330 U	330 U	330 U	370
Chrysene	330 U	330 UJ	330 U	3100
Dibenz(a,h)anthracene	330 U	330 U	330 U	650
Dibenzofuran	330 U	330 U	330 U	330 U
Diethyl phthalate	330 U	330 U	330 U	330 U
Dimethyl phthalate	330 U	330 U	330 U	330 U
Di-n-butyl phthalate	330 U	1100	330 U	330 U
Di-n-octyl phthalate	330 U	330 U	330 U	330 U
Fluoranthene	330 U	330 U	330 U	4600
Fluorene	330 U	330 U	330 U	330 U
Hexachlorobenzene	330 U	330 U	330 U	330 U
Hexachlorobutadiene	330 U	330 U	330 U	330 U
Hexachlorocyclopentadiene	670 U	670 U	670 U	670 U
Hexachloroethane	330 U	330 U	330 U	330 U
Indeno(1,2,3-cd)pyrene	330 U	330 U	330 U	3000
Isophorone	330 U	330 U	330 U	330 U
Naphthalene	330 U	330 U	330 U	330 U
Nitrobenzene	330 U	330 U	330 U	330 U
N-Nitrosodi-n-propylamine	330 U	330 U	330 U	330 U
N-Nitrosodiphenylamine	330 U	330 U	330 U	330 U
Pentachlorophenol	1700 U	1700 U	1700 U	1700 U
Phenanthrene	330 U	400	330 U	1800
Phenol	330 U	330 U	330 U	330 U
Pyrene	330 U	330 UJ	330 U	4000

Notes:
BG = Background
DD = Drainage ditch
FRT = Frac tank area
J = The associated value is the approximate concentration of the analyte in the sample.
µg/kg = Micrograms per kilogram
mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
SO = Soil
SW = South wall of the tank farm
TCLP = Toxicity characteristic leaching procedure
U = Analyte was analyzed for but not detected at or above the associated value.

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	AS-S	CD-1-S	CD-2-S	CD-3-S	CT-1-S	CT-2-S	CT-3-S	CT-4-S	CT-5-S
TCLP Metals (mg/L)									
Arsenic	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Barium	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500	0.500 U	0.500 U	0.500 U
Cadmium	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Chromium	0.0500 U	0.1120	0.0500 U	0.0500 U	0.4520	0.0708	0.0500 U	0.0500 U	0.0500 U
Lead	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Selenium	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Silver	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Metals	mg/L	mg/kg	mg/L	mg/kg	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	1.59 J	58	18 J	120	73.4 J	3.37 J	1.44 J	0.2 UJ	1.35 J
Antimony	0.0200 U	0.9800 U	0.0200 U	1.2000 U	0.0208	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Arsenic	0.0500 U	0.9800 U	0.0500 U	1.2000 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Barium	0.0457 J	1.6	0.0854 J	3.7	0.135 J	0.0329 J	0.0502 J	0.0279 J	0.428 J
Beryllium	0.0100 U	0.4900 U	0.0100 U	0.5900 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Cadmium	0.0050 U	0.4900 U	0.0080	0.5900 U	0.0278	0.0050 U	0.0050 U	0.0050 U	0.0050 U
Calcium	124 J	340	377 J	130	370 J	382 J	691 J	269 J	416 J
Chromium	0.0190	0.4900 U	0.0743	0.6100	1.9200	0.1330	0.0469	0.0133	0.0413
Cobalt	0.0200 U	0.4900 U	0.0552	0.4900 U	0.0688	0.0200 U	0.0229	0.0200	0.0200 U
Copper	0.716	0.89	1.9	14	31.7	4.65	3.3	0.4	1.19
Iron	29.3	110	253	40	431	36	18.4	6.15	101
Lead	0.0200	0.9800 U	0.0173	2.6000	0.0388	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Magnesium	22.8	9.8 U	44.3	12 U	25.7	14.4	54.3	42.5	27.1
Manganese	0.968	1.3	6.95	1.2 U	6.5	1.96	2.83	0.444	2.4
Nickel	0.108	0.98 U	0.301	1.2 U	1.65	0.209	0.227	0.17	0.141
Potassium	36.0	400.0	342.0	240.0	51.5	47.0	123.0	126.0	64.0
Selenium	0.0200 U	0.9800 U	0.0200 U	1.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Silver	0.0100 U	0.4900 U	0.0100 U	0.5900 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Sodium	434	3300	3680	1700	1460	1950	3190	2620	2000
Thallium	0.0200 UJ	0.9800 U	0.0200 UJ	1.2000 U	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ
Vanadium	0.0100 U	0.9800 U	0.0100 U	41.0000	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	0.356	2.5 J	5.96	6.3 J	9.52	2.27	1.38	1.19	5.58
Mercury	0.00024	0.00981 U	0.0002 U	0.00934 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/kg	ug/L	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,1,2,2-Tetrachloroethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,1,2-Trichloroethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,1-Dichloroethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,1-Dichloroethene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,2,4-Trichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,2-Dibromo-3-chloropropane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	AS-S	CD-1-S	CD-2-S	CD-3-S	CT-1-S	CT-2-S	CT-3-S	CT-4-S	CT-5-S
1,2-Dibromoethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Volatile Organic Compounds (Cont.)	ug/L	ug/kg	ug/L	ug/kg	ug/L	ug/L	ug/L	ug/L	ug/L
1,2-Dichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,2-Dichloroethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,2-Dichloropropane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,3-Dichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
1,4-Dichlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
2-Butanone	100 U	5000 U	250	5000 U	100 U	100 U	100 U	460	100 U
2-Hexanone	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
4-Methyl-2-pentanone	310	5000 U	110	5000 U	100 U	330	390	550	120
Acetone	3800	11000	11000 J	10000 U	700	1300	2200	2000	1000
Benzene	50 U	2500 U	640	2500 U	310	54	57	50 U	190
Bromodichloromethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Bromoform	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Bromomethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Carbon disulfide	50 U	5000 U	50 U	5000 U	140	50 U	50 U	50 U	50 U
Carbon tetrachloride	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Chlorobenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Chloroethane	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
Chloroform	50 U	2500 U	62	2500 U	50 U	50 U	50 U	50 U	50 U
Chloromethane	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
cis-1,2-Dichloroethene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
cis-1,3-Dichloropropene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Cyclohexane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Dibromochloromethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Dichlorodifluoromethane	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
Ethylbenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Freon-113	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
Isopropylbenzene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
m,p-Xylene	100 U	5000 U	100 U	5000 U	100 U	100 U	100 U	100 U	100 U
Methyl acetate	50 UJ	2500 U	50 UJ	2500 U	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
Methyl tert-butyl ether	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Methylcyclohexane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Methylene chloride	50 U	2500 UJ	50 U	2500 UJ	50 U	50 U	50 U	50 U	50 U
o-Xylene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Styrene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Tetrachloroethene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
trans-1,2-Dichloroethene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
trans-1,3-Dichloropropene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Trichloroethene	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	AS-S	CD-1-S	CD-2-S	CD-3-S	CT-1-S	CT-2-S	CT-3-S	CT-4-S	CT-5-S
Trichlorofluoromethane	50 U	2500 U	50 U	2500 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	20 U	5000 U	20 U	5000 U	20 U	20 U	20 U	20 U	20 U
Semivolatile Organic Compounds	ug/L	mg/kg	ug/L	mg/kg	ug/L	ug/L	ug/L	ug/L	ug/L
1,1'-Biphenyl	100 U	96 U	200 U	98 U	490	100 U	100 U	100 U	500 U
2,4,5-Trichlorophenol	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
2,4,6-Trichlorophenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2,4-Dichlorophenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2,4-Dimethylphenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2,4-Dinitrophenol	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
2,4-Dinitrotoluene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2,6-Dinitrotoluene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2-Chloronaphthalene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2-Chlorophenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2-Methylnaphthalene	100 U	96 U	1900	450	4000	120	290	100 U	1300
2-Methylphenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
2-Nitroaniline	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
2-Nitrophenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
3,3'-Dichlorobenzidine	100 U	640 U	200 U	660 UJ	200 U	100 U	100 UJ	100 U	500 UJ
3-Nitroaniline	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
4,6-Dinitro-2-methylphenol	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
4-Bromophenyl phenyl ether	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
4-Chloro-3-methylphenol	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
4-Chloroaniline	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
4-Chlorophenyl phenyl ether	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
4-Methylphenol	410	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
4-Nitroaniline	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
4-Nitrophenol	250 U.	480 U	500 U.	490 U	500 U	250 U	250 U	250 U	1250 U
Acenaphthene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Acenaphthylene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Acetophenone	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Anthracene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Atrazine	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Benz(a)anthracene	100 U	96 U	200 U	98 UJ	200 U	100 U	100 UJ	100 U	500 UJ
Benzaldehyde	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Benzo(a)pyrene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Benzo(b)fluoranthene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Benzo(g,h,i)perylene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Benzo(k)fluoranthene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Bis(2-chloroethoxy)methane	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Bis(2-chloroethyl)ether	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Bis(2-chloroisopropyl)ether	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	AS-S	CD-1-S	CD-2-S	CD-3-S	CT-1-S	CT-2-S	CT-3-S	CT-4-S	CT-5-S
Bis(2-ethylhexyl)phthalate	110	96 U	880	98 UJ	2400	100 U	100 UJ	100 U	500 UJ
Butyl benzyl phthalate	100 U	96 U	200 U	98 UJ	200 U	100 U	100 UJ	100 U	500 UJ
Caprolactam	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Semivolatile Organic Compounds (Cont.)	**ug/L**	**mg/kg**	**ug/L**	**mg/kg**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Carbazole	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Chrysene	100 U	96 U	200 U	98 UJ	200 U	100 U	100 UJ	100 U	500 UJ
Dibenz(a,h)anthracene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Dibenzofuran	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Diethyl phthalate	100 U	96 U	2400	98 U	420	170	370	160	500 U
Dimethyl phthalate	100 U	96 U	200 U	98 U	200 U	100 U	270	100 U	500 U
Di-n-butyl phthalate	100 U	96 U	200 U	98 U	2200	100 U	230	100 U	680
Di-n-octyl phthalate	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Fluoranthene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Fluorene	100 U	96 U	200 U	98 U	1200	100 U	100 U	100 U	500 U
Hexachlorobenzene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Hexachlorobutadiene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Hexachlorocyclopentadiene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Hexachloroethane	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Indeno(1,2,3-cd)pyrene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Isophorone	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Naphthalene	100 U	96 U	1000	98 U	1000	100 U	110	100 U	500
Nitrobenzene	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
N-Nitrosodi-n-propylamine	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
N-Nitrosodiphenylamine	100 U	96 U	200 U	98 U	200 U	100 U	100 U	100 U	500 U
Pentachlorophenol	250 U	480 U	500 U	490 U	500 U	250 U	250 U	250 U	1250 U
Phenanthrene	100 U	96 U	200 U	260	1000	100 U	100 U	100 U	500 U
Phenol	100 U	96 U	11000	98 U	5900	5300	27000	40000	14000
Pyrene	100 U	96 U	200 U	98 UJ	1400	100 U	100 UJ	100 U	500 UJ

Notes:
J - The associated value is the approximate concentration of the analyte in the sample.
ug/Kg - Micrograms per kilogram
ug/L - Micrograms per liter
mg/Kg - Milligrams per kilogram
mg/L - Milligrams per liter
NA - The analyte was not analyzed for
TB-1 - Trip blank
TCLP - Toxicity characteristic leaching procedure
U - Analyte was analyzed for but not detected at or above the associated value
UJ - Analyte was analyzed for but not detected at or above the associated value, which is estimated

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	CT-6-S	CT-7	CT-8	DAF-S	DP-1-S LAYER A	DP-1-S LAYER B	DP-2-S	F237	FA-S
TCLP Metals (mg/L)									
Arsenic	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Barium	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cadmium	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Chromium	0.0500 U	0.0500 U	0.0655	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Lead	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0630	0.0500 U
Selenium	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Silver	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Metals	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	0.2 UJ	1.16 J	3.43 J	0.2 UJ	6.62 J	92 J	0.2 UJ	1 UJ	0.287 J
Antimony	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.1000 U	0.0200 U	0.1000 U	0.0200 U
Arsenic	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.2500 U	0.0500 U	0.2500 U	0.0500 U
Barium	0.0312 J	0.0536 J	0.0542 J	0.02 UJ	0.063 J	0.55 J	0.02 UJ	0.1 UJ	0.02 UJ
Beryllium	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0500 U	0.0100 U	0.0500 U	0.0100 U
Cadmium	0.0050 U	0.0050 U	0.0088	0.0050 U	0.0050 U	0.0250 U	0.0050 U	0.0250 U	0.0050 U
Calcium	60.8 J	730 J	573 J	21.3 J	716 J	989 J	22.1 J	7.23 J	164 J
Chromium	0.0104	0.0113	0.1330	0.0100 U	0.0387	0.1830	0.0100 U	0.0500 U	0.0100 U
Cobalt	0.0200 U	0.0200 U	0.0506	0.0200 U	0.0315	0.1000 U	0.0200 U	0.1000 U	0.0200 U
Copper	0.437	2.25	3.3	0.01 U	11	13.1	0.353	0.142	0.0388
Iron	2.52	16.1	40.5	7.05	31.3	232	2.38	11.1	5.53
Lead	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0386	0.1070	0.0100 U	0.0500 U	0.0100 U
Magnesium	56.5	41.2	37.3	1.99	43.7	69.8	36.2	0.902	25.1
Manganese	0.396	1.39	2.33	0.0726	2.16	4.45	0.218	0.112	1.36
Nickel	0.124	0.203	1.44	0.0338	0.203	0.326	0.0753	0.1 U	0.109
Potassium	93.1	125.0	70.5	3.4	385.0	477.0	110.0	7.2	42.1
Selenium	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.1000 U	0.0200 U	0.1000 U	0.0200 U
Silver	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0500 U	0.0100 U	0.0500 U	0.0100 U
Sodium	1960	3030	2080	23.3	2290	3150	1660	1450	507
Thallium	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.1000 UJ	0.0200 UJ	0.1000 UJ	0.0200 UJ
Vanadium	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0500 U	0.0100 U	0.0500 U	0.0100 U
Zinc	0.222	1.8	4.1	0.02 U	2.58	3.01	0.108	2.03	0.111
Mercury	0.0002 U	0.00044	0.0002 U	0.0002 U	0.0002	0.00029	0.0002 U	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/kg	ug/L	ug/L
1,1,1-Trichloroethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,1,2,2-Tetrachloroethane	50 U	50 U	50 U	5 U	100 U	100 U	100 U	100 U	50 U
1,1,2-Trichloroethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,1-Dichloroethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,1-Dichloroethene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,2,4-Trichlorobenzene	50 U	50 U	50 U	5 U	100 U	100 U	100 U	100 U	50 U
1,2-Dibromo-3-chloropropane	50 U	50 U	50 U	5 U	100 U	100 U	100 U	100 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	CT-6-S	CT-7	CT-8	DAF-S	DP-1-S LAYER A	DP-1-S LAYER B	DP-2-S	F237	FA-S
1,2-Dibromoethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Volatile Organic Compounds (Cont.)	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/kg**	**ug/L**	**ug/L**
1,2-Dichlorobenzene	50 U	50 U	50 U	5 U	560	100 U	100 U	100 U	50 U
1,2-Dichloroethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,2-Dichloropropane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
1,3-Dichlorobenzene	50 U	50 U	50 U	5 U	100 U	100 U	100 U	100 U	50 U
1,4-Dichlorobenzene	50 U	50 U	50 U	5 U	100 U	780	100 U	100 U	50 U
2-Butanone	440	100 U	100 U	10 U	350	970	200 J	200 U	100 U
2-Hexanone	100 U	100 U	100 U	10 U	200 U	200 U	200 UJ	200 U	100 U
4-Methyl-2-pentanone	290	300	400	10 U	480	200 U	200 UJ	200 U	100 U
Acetone	3000	3700	1500	20 UJ	28000	52000	7300 J	400 U	3700
Benzene	50 U	370	82	5 U	920	1600	120 J	100 U	50 U
Bromodichloromethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Bromoform	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Bromomethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Carbon disulfide	91	50 U	200	5 U	100 U	550	360 J	100 U	74
Carbon tetrachloride	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Chlorobenzene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Chloroethane	100 U	100 U	100 U	10 U	200 U	200 U	200 UJ	200 U	100 U
Chloroform	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Chloromethane	100 U	100 U	100 U	10 U	200 U	200 U	200 UJ	200 U	100 U
cis-1,2-Dichloroethene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
cis-1,3-Dichloropropene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Cyclohexane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Dibromochloromethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Dichlorodifluoromethane	100 U	100 U	100 U	10 UJ	200 U	200 U	200 UJ	200 U	100 U
Ethylbenzene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Freon-113	100 U	100 U	100 U	10 U	200 U	200 U	200 UJ	200 U	100 U
Isopropylbenzene	50 U	50 U	50 U	5 U	420	770	100 U	100 U	50 U
m,p-Xylene	100 U	100 U	100 U	10 U	200 U	240	200 UJ	200 U	100 U
Methyl acetate	50 UJ	50 U	50 U	5 UJ	100 UJ	100 UJ	100 UJ	100 U	50 U
Methyl tert-butyl ether	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Methylcyclohexane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Methylene chloride	50 U	50 UJ	50 UJ	5 U	100 U	100 U	100 UJ	100 UJ	50 UJ
o-Xylene	50 U	50 U	50 U	5 U	400	440	100 UJ	100 U	50 U
Styrene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Tetrachloroethene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Toluene	50 U	50 U	50 U	5 U	100 U	130	100 UJ	100 U	50 U
trans-1,2-Dichloroethene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
trans-1,3-Dichloropropene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Trichloroethene	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	CT-6-S	CT-7	CT-8	DAF-S	DP-1-S LAYER A	DP-1-S LAYER B	DP-2-S	F237	FA-S
Trichlorofluoromethane	50 U	50 U	50 U	5 U	100 U	100 U	100 UJ	100 U	50 U
Vinyl chloride	20 U	20 U	20 U	2 U	40 U	40 U	40 UJ	40 U	20 U
Semivolatile Organic Compounds	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,1'-Biphenyl	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
2,4,5-Trichlorophenol	250 U	2500 U	2500 U	250 U	2500 UJ	12500 UJ	250 U	250 U	2500 U
2,4,6-Trichlorophenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
2,4-Dichlorophenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
2,4-Dimethylphenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
2,4-Dinitrophenol	250 U	2500 U	2500 U	250 U	2500 UJ	12500 UJ	250 U	250 U	2500 U
2,4-Dinitrotoluene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
2,6-Dinitrotoluene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
2-Chloronaphthalene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
2-Chlorophenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
2-Methylnaphthalene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
2-Methylphenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
2-Nitroaniline	250 U	2500 U	2500 U	250 U	2500 UJ	12500 U	250 U	250 U	2500 U
2-Nitrophenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
3,3'-Dichlorobenzidine	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
3-Nitroaniline	250 U	2500 U	2500 U	250 U	2500 UJ	12500 U	250 U	250 U	2500 U
4,6-Dinitro-2-methylphenol	250 U	2500 U	2500 U	250 U	2500 UJ	12500 UJ	250 U	250 U	2500 U
4-Bromophenyl phenyl ether	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
4-Chloro-3-methylphenol	100 U	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
4-Chloroaniline	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
4-Chlorophenyl phenyl ether	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
4-Methylphenol	1700	1000 U	1000 U	100 U	1000 UJ	5000 UJ	100 U	100 U	1000 U
4-Nitroaniline	250 U	2500 U	2500 U	250 U	2500 UJ	12500 U	250 U	250 U	2500 U
4-Nitrophenol	250 U	2500 U	2500 U	250 U	2500 UJ	12500 UJ	250 U	250 U	2500 U
Acenaphthene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Acenaphthylene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Acetophenone	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Anthracene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Atrazine	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benz(a)anthracene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benzaldehyde	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benzo(a)pyrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benzo(b)fluoranthene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benzo(g,h,i)perylene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Benzo(k)fluoranthene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Bis(2-chloroethoxy)methane	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Bis(2-chloroethyl)ether	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Bis(2-chloroisopropyl)ether	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	CT-6-S	CT-7	CT-8	DAF-S	DP-1-S LAYER A	DP-1-S LAYER B	DP-2-S	F237	FA-S
Bis(2-ethylhexyl)phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Butyl benzyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Caprolactam	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Semivolatile Organic Compounds (Cont.)	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Carbazole	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Chrysene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Dibenz(a,h)anthracene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Dibenzofuran	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Diethyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5700	100 U	100 U	1000 U
Dimethyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	510	100 U	1000 U
Di-n-butyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	12000	100 U	100 U	1000 U
Di-n-octyl phthalate	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Fluoranthene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Fluorene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Hexachlorobenzene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Hexachlorobutadiene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Hexachlorocyclopentadiene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Hexachloroethane	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Indeno(1,2,3-cd)pyrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Isophorone	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	150	1000 U
Naphthalene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Nitrobenzene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
N-Nitrosodi-n-propylamine	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
N-Nitrosodiphenylamine	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Pentachlorophenol	250 U	2500 U	2500 U	250 U	2500 UJ	12000 UJ	250 U	250 U	2500 U
Phenanthrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U
Phenol	20000	48000 J	15000 J	100 U	1000 UJ	12000 J	1300	260	1000 U
Pyrene	100 U	1000 U	1000 U	100 U	1000 UJ	5000 U	100 U	100 U	1000 U

Notes:
J - The associated value is the approximate concentration of the analyte in the sample.
ug/Kg - Micrograms per kilogram
ug/L - Micrograms per liter
mg/Kg - Milligrams per kilogram
mg/L - Milligrams per liter
NA - The analyte was not analyzed for
TB-1 - Trip blank
TCLP - Toxicity characteristic leaching procedure
U - Analyte was analyzed for but not detected at or above the associated value
UJ - Analyte was analyzed for but not detected at or above the associated value, which is estimated

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	G107D	G300D	NAOH	OP-4-S	RW-1-S	RW-2-S	SH-1-S	SH-2-S	SH-3-S
TCLP Metals (mg/L)									
Arsenic	0.250 U	0.250 U	NA	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U	0.250 U
Barium	0.500 U	0.500 U	NA	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U	0.500 U
Cadmium	0.0250 U	0.0250 U	NA	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Chromium	0.0500 U	0.0500 U	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.3020	0.0500 U
Lead	0.0500 U	0.0724	NA	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0690	0.0500 U
Selenium	0.100 U	0.100 U	NA	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U	0.100 U
Silver	0.0250 U	0.0250 U	NA	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U	0.0250 U
Mercury	0.00400 U	0.00400 U	NA	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U	0.00400 U
Metals	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Aluminum	2.22 J	1 UJ	2 UJ	2.9 J	0.795 J	0.948 J	1.48 J	400 J	0.746 J
Antimony	0.0200 U	0.1000 U	0.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Arsenic	0.0500 U	0.2500 U	0.5000 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U	0.0500 U
Barium	0.175 J	0.1 UJ	0.2 UJ	0.0733 J	0.02 UJ	0.0221 J	0.095 J	0.0461 J	0.0455 J
Beryllium	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Cadmium	0.0050 U	0.0250 U	0.0500 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U	0.0177	0.0050 U
Calcium	182 J	8.73 J	528 J	420 J	381 J	770 J	473 J	360 J	405 J
Chromium	0.0100 U	0.0500 U	0.1000 U	0.0253	0.0100 U	0.0100 U	0.0276	0.3430	0.0292
Cobalt	0.0200 U	0.1000 U	0.0200 U	0.0250	0.0200 U	0.0200 U	0.0301	0.0716	0.0200 U
Copper	0.13	0.05 U	0.18	0.45	0.0488	0.119	0.172	10.9	0.0662
Iron	140	5.47	20.5	116	19.1	4.47	68.2	700	5.59
Lead	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0689	0.0100 U
Magnesium	26.1	1.25	42.2	49.7	7.72	4.56	59.6	114	45.5
Manganese	3.09	0.123	2.77	6.42	0.343	0.411	3.87	9.71	2.3
Nickel	0.139	0.1 U	0.2 U	0.374	0.0718	0.0475	0.223	0.371	0.145
Potassium	94.1	8.3	62.3	216.0	82.3	32.4	249.0	312.0	367.0
Selenium	0.0200 U	0.1000 U	0.2000 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U	0.0200 U
Silver	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Sodium	3640	1120	727	2780	1660	1550	3390	3380	4170
Thallium	0.0200 UJ	0.1000 UJ	0.2000 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ	0.0200 UJ
Vanadium	0.0100 U	0.0500 U	0.1000 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U	0.0100 U
Zinc	1.38	0.7	0.425	4.05	0.38	0.766	4.67	13.8	0.437
Mercury	0.0002 U	0.0016 U	0.0016 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U	0.0002 U
Volatile Organic Compounds	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,1,2,2-Tetrachloroethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,1,2-Trichloroethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,1-Dichloroethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,1-Dichloroethene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,2,4-Trichlorobenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,2-Dibromo-3-chloropropane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	G107D	G300D	NAOH	OP-4-S	RW-1-S	RW-2-S	SH-1-S	SH-2-S	SH-3-S
1,2-Dibromoethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Volatile Organic Compounds (Cont.)	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,2-Dichlorobenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,2-Dichloroethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,2-Dichloropropane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,3-Dichlorobenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
1,4-Dichlorobenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
2-Butanone	180	200 U	200 U	2200	440	100 U	380	220	400
2-Hexanone	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
4-Methyl-2-pentanone	100 U	200 U	850	510	340	100 U	410	420	420
Acetone	8600	400 U	6100	51000 J	10000	1100	34000	21000	270000 J
Benzene	50 U	100 U	500	1200	160	50 U	860	790	290
Bromodichloromethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Bromoform	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Bromomethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Carbon disulfide	50 U	100 U	770	50 U	50 U	50 U	50 U	50 U	50 U
Carbon tetrachloride	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Chlorobenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Chloroethane	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
Chloroform	50 U	100 U	100 U	93	50 U	50 U	50 U	50 U	50 U
Chloromethane	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
cis-1,2-Dichloroethene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
cis-1,3-Dichloropropene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Cyclohexane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Dibromochloromethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Dichlorodifluoromethane	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
Ethylbenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Freon-113	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
Isopropylbenzene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
m,p-Xylene	100 U	200 U	200 U	100 U	100 U	100 U	100 U	100 U	100 U
Methyl acetate	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Methyl tert-butyl ether	50 U	100 U	100 U	89	50 U	50 U	78	50 U	50 U
Methylcyclohexane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Methylene chloride	50 UJ	100 UJ	100 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ	50 UJ
o-Xylene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Styrene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Tetrachloroethene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Toluene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	54	50 U
trans-1,2-Dichloroethene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
trans-1,3-Dichloropropene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Trichloroethene	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0406B38

PARAMETERS	G107D	G300D	NAOH	OP-4-S	RW-1-S	RW-2-S	SH-1-S	SH-2-S	SH-3-S
Trichlorofluoromethane	50 U	100 U	100 U	50 U	50 U	50 U	50 U	50 U	50 U
Vinyl chloride	20 U	40 U	40 U	20 U	20 U	20 U	20 U	20 U	20 U
Semivolatile Organic Compounds	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
1,1'-Biphenyl	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
2,4,5-Trichlorophenol	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 UJ	2500 UJ
2,4,6-Trichlorophenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
2,4-Dichlorophenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
2,4-Dimethylphenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
2,4-Dinitrophenol	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 UJ	2500 UJ
2,4-Dinitrotoluene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
2,6-Dinitrotoluene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
2-Chloronaphthalene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
2-Chlorophenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
2-Methylnaphthalene	1000 U	100 U	1000 U	100 U	190	100 U	1000 U	1000 U	1000 U
2-Methylphenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
2-Nitroaniline	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 U	2500 U
2-Nitrophenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
3,3'-Dichlorobenzidine	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ	1000 U
3-Nitroaniline	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 U	2500 U
4,6-Dinitro-2-methylphenol	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 UJ	2500 UJ
4-Bromophenyl phenyl ether	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
4-Chloro-3-methylphenol	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
4-Chloroaniline	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
4-Chlorophenyl phenyl ether	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
4-Methylphenol	1000 U	100 U	3800	100 U	100 U	100 U	1000 U	1000 UJ	1000 UJ
4-Nitroaniline	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 U	2500 U
4-Nitrophenol	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 UJ	2500 UJ
Acenaphthene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Acenaphthylene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Acetophenone	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Anthracene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Atrazine	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Benz(a)anthracene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ	1000 U
Benzaldehyde	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Benzo(a)pyrene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Benzo(b)fluoranthene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Benzo(g,h,i)perylene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Benzo(k)fluoranthene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Bis(2-chloroethoxy)methane	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Bis(2-chloroethyl)ether	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Bis(2-chloroisopropyl)ether	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0406B38

PARAMETERS	G107D	G300D	NAOH	OP-4-S	RW-1-S	RW-2-S	SH-1-S	SH-2-S	SH-3-S
Bis(2-ethylhexyl)phthalate	1000 U	100 U	1600	170	100 U	100 U	1000 UJ	1000 UJ	1000 U
Butyl benzyl phthalate	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ	1000 U
Caprolactam	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Semivolatile Organic Compounds (Cont.)	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
Carbazole	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Chrysene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ	1000 U
Dibenz(a,h)anthracene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Dibenzofuran	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Diethyl phthalate	1000 U	100 U	1000 U	320	100 U	100 U	1000 U	1000 U	2100
Dimethyl phthalate	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Di-n-butyl phthalate	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1500	1000 U
Di-n-octyl phthalate	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Fluoranthene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Fluorene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Hexachlorobenzene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Hexachlorobutadiene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Hexachlorocyclopentadiene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Hexachloroethane	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Indeno(1,2,3-cd)pyrene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Isophorone	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Naphthalene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Nitrobenzene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
N-Nitrosodi-n-propylamine	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
N-Nitrosodiphenylamine	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Pentachlorophenol	2500 U	250 U	2500 U	250 U	250 U	250 U	2500 U	2500 UJ	2500 UJ
Phenanthrene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 U	1000 U	1000 U
Phenol	30000 J	170	1000 U	180000 J	11000	770	14000	1000 UJ	40000 J
Pyrene	1000 U	100 U	1000 U	100 U	100 U	100 U	1000 UJ	1000 UJ	1000 U

Notes:
J The associated value is the approximate concentration of the analyte in the sample.
ug/Kg - Micrograms per kilogram
ug/L - Micrograms per liter
mg/Kg - Milligrams per kilogram
mg/L - Milligrams per liter
NA - The analyte was not analyzed for
TB-1 - Trip blank
TCLP - Toxicity characteristic leaching procedure
U Analyte was analyzed for but not detected at or above the associated value
UJ Analyte was analyzed for but not detected at or above the associated value, which is estimated

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	SH-4-S	SODIUM HYDROXIDE	SS-1-S	SS-2-S	ST-1	SULFURIC ACID	TB-1
TCLP Metals (mg/L)							
Arsenic	0.250 U	NA	0.250 U	0.250 U	NA	NA	NA
Barium	0.500 U	NA	0.500 U	0.500 U	NA	NA	NA
Cadmium	0.0250 U	NA	0.0250 U	0.0250 U	NA	NA	NA
Chromium	0.0500 U	NA	0.0500 U	0.0500 U	NA	NA	NA
Lead	0.0500 U	NA	0.0500 U	0.0500 U	NA	NA	NA
Selenium	0.100 U	NA	0.100 U	0.100 U	NA	NA	NA
Silver	0.0250 U	NA	0.0250 U	0.0250 U	NA	NA	NA
Mercury	0.00400 U	NA	0.00400 U	0.00400 U	NA	NA	NA
Metals	**mg/kg**	**mg/L**	**mg/L**	**mg/kg**	**mg/L**	**mg/L**	**NA**
Aluminum	63	2 UJ	63.7 J	390	268 J	3.2 J	NA
Antimony	1.0000 U	0.2000 U	0.0200 U	0.9778 U	0.2000 U	0.2000 U	NA
Arsenic	1.0000 U	0.5000 U	0.0500 U	0.9778 U	0.5000 U	0.5000 U	NA
Barium	1.2	0.2 UJ	0.281 J	4.8 J	2.4 J	0.2 UJ	NA
Beryllium	0.5000 U	0.1000 U	0.0100 U	0.4889 U	0.1000 U	0.1000 U	NA
Cadmium	0.5000 U	0.0500 U	0.0064	0.4889 U	0.0806	0.0500 U	NA
Calcium	610	2.86 J	503 J	510	480 J	8.49 J	NA
Chromium	0.5000 U	0.1000 U	0.0299	0.4889 U	6.3800	0.9310	NA
Cobalt	0.5000 U	0.2000 U	0.0200 U	0.4889 U	0.2000 U	0.2000 U	NA
Copper	13	0.1 U	1.12	18	14.4	0.1 U	NA
Iron	160	3.58	221	100	2200	20	NA
Lead	14.0000	0.1000 U	0.0100 U	0.9778 U	0.4310	0.1000 U	NA
Magnesium	59	1 U	60.5	18	64.2	2.81	NA
Manganese	7.9	0.05 U	5.76	3.5	29.3	0.23	NA
Nickel	1 U	0.2 U	0.137	0.97784 U	3.43	0.738	NA
Potassium	320.0	113.0	115.0	890.0	76.3	5.0 U	NA
Selenium	1.0000 U	0.2000 U	0.0200 U	0.9778 U	0.2000 U	0.7250	NA
Silver	0.5000 U	0.1000 U	0.0100 U	0.4889 U	0.1000 U	0.1000 U	NA
Sodium	1600	188000	2040	6800	1780	10 U	NA
Thallium	1.0000 U	0.2000 UJ	0.0200 UJ	0.9778 U	0.2000 UJ	0.2000 UJ	NA
Vanadium	1.0000 U	0.1000 U	0.0100 U	1.9000	0.1000 U	0.1000 U	NA
Zinc	2.8 J	0.2 U	9.16	2.3 J	21	0.2 U	NA
Mercury	0.00979 U	0.00218	0.0002 U	0.00982 U	0.00277	0.0057	NA
Volatile Organic Compounds	**ug/kg**	**NA**	**ug/L**	**ug/kg**	**ug/L**	**NA**	**ug/kg**
1,1,1-Trichloroethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,1,2,2-Tetrachloroethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,1,2-Trichloroethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,1-Dichloroethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,1-Dichloroethene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,2,4-Trichlorobenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,2-Dibromo-3-chloropropane	2500 U	NA	50 U	2500 U	100 U	NA	5 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	SH-4-S	SODIUM HYDROXIDE	SS-1-S	SS-2-S	ST-1	SULFURIC ACID	TB-1
1,2-Dibromoethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Volatile Organic Compounds (Cont.)	**ug/kg**	**NA**	**ug/L**	**ug/kg**	**ug/L**	**NA**	**ug/kg**
1,2-Dichlorobenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,2-Dichloroethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,2-Dichloropropane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,3-Dichlorobenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
1,4-Dichlorobenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
2-Butanone	5000 U	NA	140	5000 U	200 U	NA	10 UJ
2-Hexanone	5000 U	NA	100 U	5000 U	200 U	NA	10 UJ
4-Methyl-2-pentanone	5000 U	NA	300	5000 U	200 U	NA	10 U
Acetone	74000	NA	19000	18000	860	NA	20 UJ
Benzene	2600	NA	900	2500 U	2300	NA	5 U
Bromodichloromethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Bromoform	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Bromomethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Carbon disulfide	5000 U	NA	110	5000 U	850	NA	5 U
Carbon tetrachloride	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Chlorobenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Chloroethane	5000 U	NA	100 U	5000 U	200 U	NA	10 U
Chloroform	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Chloromethane	5000 U	NA	100 U	5000 U	200 U	NA	10 U
cis-1,2-Dichloroethene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
cis-1,3-Dichloropropene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Cyclohexane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Dibromochloromethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Dichlorodifluoromethane	5000 U	NA	100 U	5000 U	200 U	NA	10 UJ
Ethylbenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Freon-113	5000 U	NA	100 U	5000 U	200 U	NA	10 U
Isopropylbenzene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
m,p-Xylene	5000 U	NA	100 U	5000 U	200 U	NA	10 U
Methyl acetate	2500 U	NA	50 U	2500 U	100 U	NA	5 UJ
Methyl tert-butyl ether	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Methylcyclohexane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Methylene chloride	2500 UJ	NA	50 UJ	2500 UJ	100 UJ	NA	5 U
o-Xylene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Styrene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Tetrachloroethene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Toluene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
trans-1,2-Dichloroethene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
trans-1,3-Dichloropropene	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Trichloroethene	2500 U	NA	50 U	2500 U	100 U	NA	5 U

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408E38

PARAMETERS	SH-4-S	SODIUM HYDROXIDE	SS-1-S	SS-2-S	ST-1	SULFURIC ACID	TB-1
Trichlorofluoromethane	2500 U	NA	50 U	2500 U	100 U	NA	5 U
Vinyl chloride	5000 U	NA	20 U	5000 U	40 U	NA	5 U
Semivolatile Organic Compounds	mg/kg	ug/L	ug/L	mg/kg	ug/L	ug/L	NA
1,1'-Biphenyl	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2,4,5-Trichlorophenol	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
2,4,6-Trichlorophenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2,4-Dichlorophenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2,4-Dimethylphenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2,4-Dinitrophenol	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
2,4-Dinitrotoluene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2,6-Dinitrotoluene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2-Chloronaphthalene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2-Chlorophenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2-Methylnaphthalene	93 U	1000 U	1000 U	440	2000	1000 U	NA
2-Methylphenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
2-Nitroaniline	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
2-Nitrophenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
3,3'-Dichlorobenzidine	630 U	1000 U	1000 UJ	650 U	1000 U	1000 U	NA
3-Nitroaniline	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
4,6-Dinitro-2-methylphenol	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
4-Bromophenyl phenyl ether	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
4-Chloro-3-methylphenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
4-Chloroaniline	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
4-Chlorophenyl phenyl ether	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
4-Methylphenol	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
4-Nitroaniline	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
4-Nitrophenol	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
Acenaphthene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Acenaphthylene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Acetophenone	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Anthracene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Atrazine	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Benz(a)anthracene	93 U	1000 U	1000 UJ	97,0874 U	1000 U	1000 U	NA
Benzaldehyde	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Benzo(a)pyrene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Benzo(b)fluoranthene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Benzo(g,h,i)perylene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Benzo(k)fluoranthene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Bis(2-chloroethoxy)methane	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Bis(2-chloroethyl)ether	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Bis(2-chloroisopropyl)ether	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA

QUALIFIED DATA SUMMARY TABLES
LABORATORY LOT NO. 0408B38

PARAMETERS	SH-4-S	SODIUM HYDROXIDE	SS-1-S	SS-2-S	ST-1	SULFURIC ACID	TB-1
Bis(2-ethylhexyl)phthalate	93 U	1000 U	1000 UJ	97.0874 U	1000 U	1100	NA
Butyl benzyl phthalate	93 U	1000 U	1000 UJ	97.0874 U	1000 U	1000 U	NA
Caprolactam	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Semivolatile Organic Compounds (Cont.)	mg/kg	ug/L	ug/L	mg/kg	ug/L	ug/L	NA
Carbazole	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Chrysene	93 U	1000 U	1000 UJ	97.0874 U	1000 U	1000 U	NA
Dibenz(a,h)anthracene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Dibenzofuran	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Diethyl phthalate	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Dimethyl phthalate	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Di-n-butyl phthalate	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Di-n-octyl phthalate	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Fluoranthene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Fluorene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Hexachlorobenzene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Hexachlorobutadiene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Hexachlorocyclopentadiene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Hexachloroethane	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Indeno(1,2,3-cd)pyrene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Isophorone	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Naphthalene	93 U	1000 U	1000 U	170	1000 U	1000 U	NA
Nitrobenzene	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
N-Nitrosodi-n-propylamine	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
N-Nitrosodiphenylamine	93 U	1000 U	1000 U	97.0874 U	1000 U	1000 U	NA
Pentachlorophenol	470 U	2500 U	2500 U	490 U	2500 U	2500 U	NA
Phenanthrene	93 U	1000 U	1000 U	140	1000 U	1000 U	NA
Phenol	93 U	1000 U	18000	97.0874 U	1000 U	1000 U	NA
Pyrene	93 U	1000 U	1000 UJ	97.0874 U	1000 U	1000 U	NA

Notes:
J The associated value is the approximate concentration of the analyte in the sample.
ug/Kg - Micrograms per kilogram
ug/L Micrograms per liter
mg/Kg - Milligrams per kilogram
mg/L - Milligrams per liter
NA - The analyte was not analyzed for
TB-1 - Trip blank
TCLP Toxicity characteristic leaching procedure
U - Analyte was analyzed for but not detected at or above the associated value
UJ Analyte was analyzed for but not detected at or above the associated value, which is estimated

Reference 15

(15)

GEOSYNTEC CONSULTANTS

9220 Cypress Green Dr
Jacksonville, Florida 32256 • US
Tel. (904) 739-1600 • Fax (904) 739-16

DEC 11 200

HAZARDOUS WASTE MANAGEMENT

December 4, 2001

Ms. Verona Barnes
Unit Coordinator/Hazardous Waste Support Unit
Georgia Department of Natural Resources
Suite 1154 East Tower
205 Butler Street, S.E. Floyd Tower
Atlanta, Georgia 30334

Re: Notification of Regulated Waste Activity
BCX Waycross, GA Facility

Dear Ms. Barnes:

On behalf of BCX Corporation, GeoSyntec Consultants (GeoSyntec) requests a GAEPD/USEPA identification number for the proposed BCX waste oil processing and marketing facility to be located in Waycross. Attached is a completed and signed EPA Form 8700-12.

Please contact me should you have any questions.

Sincerely,

Edward C. Bates
Associate

cc: Mr. J. Allen Bryson, BCX
Mr. Charles Phelps, BCX
Ms. Elaina Modlin, P.E., GeoSyntec

Notif of Reg Waste Activity.doc

Georgia Department of Natural Resour
205 Butler Street, Suite 1154 East Tower, Atlanta, Georgia 3033
Environmental Protectio
Harold F. Reheis
Hazardous Waste Manageme
Phone 404/656-7802 FAX 404/

December 13, 2001

CHARLES PHELPS
BCX WAYCROSS FACILITY
PO BOX 25
WAYCROSS, GA 31502

RE: EPA ID # GAR000030007
3 FOLKS ST
WAYCROSS, WARE COUNTY, GA 31502

Dear CHARLES PHELPS:

We have recently received your notification of regulated waste activity (EPA Form 8700-12).

The above referenced EPA ID number has been assigned to the facility at the address given. This number is site specific and will be used by the Georgia Environmental Protection Division and the US EPA for identification purposes. If you move to a new location, you should deactivate this number and apply for another number at the new location. This number is not a permit. It is used for data management and information tracking purposes.

Your cooperation in protecting Georgia's environment is appreciated.

Sincerely,

Jacquelyn D. Hymel
Hazardous Waste Support Unit
Hazardous Waste Management Branch

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0024, Expires 12/31/02
GSA No. 0246-EPA-OT

Notification of Regulated Waste Activity

EPA United States Environmental Protection Agency

Date Received (For Official Use Only)
DEC 1 1 2001

I. Reason for Notification (Check one or two, as appropriate, only)

[X] A. Initial Notification
[ ] B. Subsequent Notification (Complete Item II)

II. EPA Identification Number: GAR000030007

III. Installation (Owner/Operator) Name

BCX WAYCROSS FACILITY

IV. Location of Installation (Physical address not P.O. Box or Route Number)

Street: 3 FOLKS STREET

Street (Continued):

City or Town: WAYCROSS | State: GA | Zip Code: 31502-

County Code: | County Name: WARE

V. Installation Mailing Address (See Instructions)

Street or P.O. Box: PO BOX 25

City or Town: WAYCROSS | State: GA | Zip Code: 31502-

VI. Installation Contact (Person to be contacted regarding waste activities at site)

Name (Last): PHELPS | (First): CHARLES

Job Title: VP OPERATIONS | Phone Number (Area Code and Number): 904-356-3391

VII. Installation Contact Address (See Instructions)

A. Location Address (Same as Item IV): [ ] | B. Street or P.O. Box: [X] 1859 EAST ADAMS STREET

City or Town: JACKSONVILLE | State: FL | Zip Code: 32201-

VIII. Ownership (See Instructions)

A. Name of Installation's Legal Owner: SOS EARTH (dba) BCX CORPORATION

Street, P.O. Box, or Route Number: 3 FOLKS STREET

City or Town: WAYCROSS | State: GA | Zip Code: 31502-

Phone Number (Area Code and Number)	B. Land Type	C. Owner Type	D. Change of Owner Indicator	Date Changed (Month Day Year)
912-338-0402	P	P	Yes [ ] No [ ]	

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Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

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VII. Type of Hazardous Waste Activity (Mark "X" in the appropriate boxes. Refer to instructions.)

A. Hazardous Waste Activities

- [ ] 1. Generator (Check one box below)
  - [ ] a. Generator of more than 1000 kg of hazardous waste in a month
  - [ ] b. Generator of 1000 kg or less of hazardous waste in a month
  - [ ] c. Conditionally exempt small quantity generator (See instructions)
- [ ] 2. Transporter
- [ ] 3. Treatment, Storage, Disposal, and Recycling (Check all that apply)
  - [ ] a. Treatment
  - [ ] b. Storage
  - [ ] c. Disposal
  - [ ] d. Recycling (Other than Burning for Energy Recovery)
  - [ ] e. Recycling (Burning for Energy Recovery)
- [ ] 4. Exempt Facility (Check one box below)
  - [ ] a. Recycling (Other than Burning for Energy Recovery)
  - [ ] b. Recycling (Burning for Energy Recovery)
- [ ] 5. Underground Injection Control

B. Universal Waste Activity

- [ ] 1. Large Quantity Handler of Universal Waste

C. Used Oil Activities

- 1. Used Oil Transporter/Transfer Facility (Check one box below)
  - [ ] a. Transporter
  - [ ] b. Transfer Facility
- 2. Used Oil Processor/Re-refiner (Check all that apply)
  - [ ] a. Processor
  - [ ] b. Re-refiner
- 3. Used Oil Burner
  - [ ] a. Off-specification Used Oil Burner
  - [ ] b. Used Oil Fuel Marketer
  - [ ] c. Marketer Which First Claims the Used Oil Meets the Specifications
- 4. Used Oil Transfer Facility
- 5. Used Oil Processor/Re-refiner
- 6. Used Oil Burner
- 7. Used Oil Fuel Marketer
- 8. Marketer Which First Claims the Used Oil Meets the Specifications

VIII. Description of Hazardous Wastes (Use additional sheets if necessary.)

A. Listed Hazardous Wastes (See 40 CFR 261.31 - 33. See instructions if you need to list more than 12 waste codes.)

1.	2.	3.	4.	5.	6.
7.	8.	9.	10.	11.	12.

B. Characteristics of Non-Listed Hazardous Wastes (Mark "X" in the boxes corresponding to the characteristics of non-listed hazardous wastes your installation handles. See 40 CFR Parts 261.20 - 261.24. See instructions if you need to list more than 4 toxicity characteristic waste codes.)

1. Ignitable (D001)	2. Corrosive (D002)	3. Reactive (D003)	4. Toxicity Characteristic	(List specific EPA hazardous waste number(s) for the Toxicity Characteristic contaminant(s)) 1.	2.	3.	4.

C. Other Wastes (Non-regulated or other wastes requiring a handler to have an ID number. See instructions.)

1.	2.	3.	4.	5.	6.

X. Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature	Name and Official Title (Type or print)	Date Signed
J. Allen Bryson	J. Allen Bryson, CEO	12-5-01

XI. Comments

Note: Mail completed form to the appropriate EPA Regional or State Office. (See Section IV of the booklet for addresses.)

Please print or type with ELITE type (12 characters per inch) in the unshaded areas only

Form Approved, OMB No. 2050-0028 Expires 12/31/02
GSA No. 0246-EPA-OT

For Official Use Only									

D. Hazardous Waste Codes (Continued) Additional Sheet

D. Hazardous Wastes. *(See 40 CFR 261.31-33. Use this page only if you need to list more than 4 waste codes.)*

15	16	17	18	19	20
21	22	23	24	25	26
27	28	29	30	31	32
33	34	35	36	37	38
39	40	41	42	43	44
45	46	47	48	49	50
51	52	53	54	55	56
57	58	59	60	61	62
63	64	65	66	67	68
69	70	71	72	73	74
75	76	77	78	79	80
81	82	83	84	85	86
87	88	89	90	91	92
93	94	95	96		

E. Toxicity Characteristic Hazardous Wastes. *(See 40 CFR 261.24; Use this page only if you need to list more than 4 waste codes.)*

5	6	7	8	9	10
11	12	13	14	15	16
17	18	19	20	21	22

Reference 16

(16)

APR 6 2004

1

PERMIT#0003

CITY OF WAYCROSS

WATER AND WASTEWATER DEPARTMENT
WARE COUNTY, GEORGIA

PERMIT FOR THE DISCHARGE OF NON-DOMESTIC WASTEWATER UNDER THE INDUSTRIAL PRETREATMENT PROGRAM

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.) hereinafter called the "Federal Act," the City of Waycross's Code (Section 32), as amended hereinafter called the Sewer Use Ordinance (SUO) and the Rules and Regulations promulgated pursuant to each of these Acts,

BCX Corporation

is authorized to discharge to the City of Waycross Wastewater Treatment Facility effluent from a facility located at:

901 Francis Street
P.O. Box 25
Waycross, Ga. 31502

In accordance with effluent limitations, monitoring requirements and other conditions set forth in Part I, II, and III hereof.

This permit shall become effective on 01-01-04 Effective "3/1/04" - Phil DeMarco
EFFECTIVE DATE OF PERMIT.

This permit and the authorization to discharge shall expire at midnight 12/31/04.

Signed this 12 day of 12, 2003.

JAMES H NALLEY JR, City Manager

PART I

A. CHARGES FOR SERVICE

Charges for wastewater service authorized by this permit shall be according to the rates established by the Mayor and Council of the City of Waycross for Customers other than single family residential customers and shall be subject to revisions when new rates are adopted. A volume charge per one hundred cubic feet of metered wastewater discharged shall be levied for "Normal Strength Waste." Tests will be made to determine the character and average concentration of pollutants in the discharge. Surcharges shall be levied for pollutants in excess of "Normal" concentration as defined by the Ordinance. Payment of surcharge shall not relieve the permittee of the limitations of pollutants in this permit. The City shall collect samples from time to time as deemed appropriate to check for conventional, toxic organic, and heavy metal pollutants.

A nominal charge for the collection and analysis for conventional pollutants will be assessed. Charges for pollutant analyses will be based on the contract lab's actual prices including collection and shipping costs.

PART II

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

The effluent limitations outlined below are representative of the type of pollutants expected to be discharged by the permittee. However, the permittee shall not discharge any pollutant or wastewater which will interfere with operation of the POTW; nor any substance which may cause fire or explosion; nor any solid or viscous substance which may cause obstruction to the flow in the sewer, nor any wastewater containing toxic or priority pollutants as defined by the Federal Water Quality Act in quantities that will interfere with operation of the POTW or cause a violation of the NPDES Permit, nor any other specific prohibitions listed in the City's Sewer Use Ordinance (Section 32-35(d)).

This permit is issued in conformity with plans, specifications and other data submitted to the City by the permittee.

The permittee shall at all times maintain in good working order and operate as efficiently as possible all facilities or systems installed or used by the permittee to achieve compliance with the terms of this permit.

PARAMETERS	LIMIT Lbs/day	Limit mg/L Daily Limit	Monthly average	SAMPLE FREQUENCY	SAMPLE TYPE
Flow MGD		0.216	.216	Daily	Effluent Weir
C.O.D	3000	1666	1666	1/day	24 Hr Comp
Biochemical Oxygen Demand (5-day)	750	417	417	1/day	24 Hr. Comp
Total Suspended Solids	567		567	1/day	24 Hr. Comp
Nitrogen,total(TN)	63	35	35	1/day	24HR Comp
ammonia-N	19.8	11	11	1/day	24 Hr. Comp
Fats, Oil & Grease		100	100	1/week	24 Hr. Comp
Antimony		0.237	0.141	1/week	24 Hr. Comp
Arsenic		0.162	.104	1/week	24 Hr. Comp
Barium		0.427	.281	1/week	24 Hr. Comp
Cadmium		0.08	.08	1/week	24 Hr. Comp
Chromium		0.746	.487	1/week	24 Hr. Comp
Cobalt		0.192	.124	1/week	24 Hr. Comp
Copper		0.405	.301	1/week	24 Hr. Comp
Cyanide		0.082	.082	1/week	grab
Lead		0.116	.096	1/week	24 Hr. Comp
Mercury		0.002	.0007	1/week	24 Hr. Comp
Molybdenum		1.01	.965	1/week	24 Hr. Comp
Nickel		1.33	.75	1/week	24 Hr. Comp
Selenium		0.46	.26	1/week	24 Hr. Comp
Silver		0.120	.0351	1/week	24 Hr. Comp
Tin		0.409	.120	1/week	24 Hr. Comp
Titanium		0.09	.0618	1/week	24 Hr. Comp
Vanadium		0.218	.0662	1/week	24 Hr. Comp
Zinc		0.641	.641	1/week	24 Hr. Comp
Bis(2-ethylhexyl) phthalate		0.215	.158	1/week	24 Hr. Comp
Carbazole		0.392	.233	1/week	24 Hr. Comp
o-cresol		1.92	.561	1/week	24 Hr. Comp
p-cresol		0.698	.205	1/week	24 Hr. Comp
n-Decane		0.948	.948	1/week	24 Hr. Comp
2,3-Dichloroaniline		0.0731	.0361	1/week	24 Hr. Comp
Flouranthene		0.393	.393	1/week	24 Hr. Comp
n-Octadecane		0.589	.589	1/week	24 Hr. Comp
2,4,6-Trichlorophenol		0.155	.106	1/week	24 Hr. Comp
PH		5.0-9.5		daily	grab

peak ppm =daily mg/l limit

The pH shall not be less than 5.0 nor greater than 9.5 standard units and shall be monitored daily.

EFFLUENT SAMPLES WILL BE COLLECTED AT METERING STATION.

. Total flow .216MGD. Daily flows will be equalized over 24hrs

B. SPECIAL CONDITIONS

1. Monthly average shall be determined by summing the results from all sampling events for a given parameter for a given month and dividing by the number of sample results.

2. BCX will furnish the city with documentation of analysis that is performed before wastewater is accepted for treatment. BCX will perform 129-priority pollutant scan from each site that is hauled to the facility, if the city deems necessary.

3. BCX will furnish toxicity testing on all new waste streams before received.

4. D M R will be completed and sent along with each sampling event.

5. The Sampling Report will be due on the 15th of the month after the sampling event, and will be submitted to the following address:

Pretreatment Program Manager
City of Waycross
Water and Wastewater Department
P.O. Box 99
Waycross, GA 31502

6. Permittee shall not discharge any wastewater to the POTW resulting from the receipt and/or treatment of organic wastes unless a written determination has been made by C.O.W that Permittee's pretreatment systems provide "equivalent treatment" for the subject organic waste.

7. Permittee shall not discharge to the POTW any wastewater resulting from the receipt of pesticide chemical wastes. Such wastes shall include process wastewater regulated under 40 CFR 455.

8. In accordance with 40 CFR 437.41(c), Permittee shall maintain On-site Compliance Paperwork, available for inspection and copying. Such paperwork must at a minimum:

A. List and describe each wastestream accepted at the facility (e.g. waste profiles, receipt logs, etc.).

B. List and describe the treatment systems in-place at the facility, modifications to the treatment systems and the conditions under which the systems are operated for each wastestream accepted at the facility (e.g. treatment "recipes", operator instructions, SOPs, etc.).

Criminal prosecution: Any user who willfully or negligently violates any provision of this division or any orders or permits issued hereunder shall, upon conviction in the municipal court of the city, be guilty of a misdemeanor, punishable by a fine not to exceed one thousand hundred dollars ($1000.00) per violation per day or imprisonment for not more than six (6) months or both.

Any user who knowingly makes any false statements, representations, or certifications in any application, record, report, plan or other document filed or required to be maintained pursuant to this division, or wastewater permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this division shall, upon conviction, be punished by a fine of not more than one thousand dollars ($1000.00) per day or imprisonment for not more than six (6) months or both.

I. DISCHARGE OF HAZARDOUS MATERIALS PROHIBITED

The City of Waycross prohibits the discharge of hazardous materials as defined in 40 CFR Part 261. Any user who commences the discharge of hazardous waste shall notify the POTW, the EPA Regional Waste Management Division Director, and Georgia Environmental Protection Division Hazardous Waste Program, in writing, of any discharge into the POTW of a substance which, otherwise disposed of, would be a hazardous waste under 40 CFR Part 261.

At least once every two (2) years, the director of public works shall evaluate whether each significant industrial user needs an accidental discharge/slug control plan. The City Manager may require any user to develop, submit for approval, and implement such a plan. Alternatively, the director of public works may develop such a plan for any user. An accidental discharge/slug control plan shall address, at a minimum, the following:

a. Description of discharge practices, including non-routine batch discharges;
b. Description of stored chemicals;
c. Procedures for immediately notifying the POTW superintendent of any accidental or slug discharge, as required by section 32-37(d)(6)a. of the Sewer Use Ordinance.
d. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.

J. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit for any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

ovide information and supporting data establishing that treatment systems achieve equivalent treatment".

Describe the procedures adopted to ensure that treatment systems are well-operated and maintained, and provide information documenting that waste treatment systems are performing as expected; and

E. Explain why such procedures will ensure that treatment systems are well operated and maintained.

9. Permittee shall maintain on site all data (date, time, meter readings, tank gauge readings, charts, etc.), used to determine discharge flow and/or volume. Such records shall be available for inspection and copying.

10. Permittee shall monitor flow at the designated sample point using a properly annually calibrated, C.O.W approved meter and continuous recorder.

Permit Modifications

C.O.W may modify this permit for good cause, including ,but not limited to, the following reasons:

A. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements;also any new requirements in permit parameters at POTW.

B. To address significant alterations or additions to the user's operation, processes, or wastewater volume or character since the time of permit issuance;

C. A change in the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge;

D. Information indicating that the permitted discharge poses a threat to the POTW, C.O.W personnel, or the receiving waters;

E. Violation of any terms or conditions of the permit;

F. Misrepresentations or failure to fully disclose all relevant facts in the permit application or in any required reporting;

G. To correct typographical or other errors in the permit.

Permit Revocation

C.O.W may revoke a wastewater discharge permit for good cause, including, but not limited to, the following reasons:

A. Failure to notify C.O.W of significant changes to the wastewater prior to the changed discharge;

B. Failure to provide prior notification to C.O.W of changed conditions of this permit;

C. Misrepresentation or failure to fully disclose all relevant facts in the wastewater discharge permit application;

D. Falsifying self-monitoring reports;

E. Tampering with monitoring equipment;

F. Refusing to allow C.O.W timely access to the facility premises and records;

G. Failure to meet effluent limitations;

H. Failure to pay fines; surcharges,

I. Failure to pay sewer charges;

J. Failure to meet compliance schedules;

K. Failure to complete a wastewater survey or the industrial user discharge permit application;

L. Failure to provide advance notice of the transfer of business ownership of a permitted facility; or

M. Violation of any pretreatment standard or requirement, or any terms of this permit or C.O.W's *Industrial Pretreatment Regulation*.

. All industrial user discharge permits issued to a particular user are void upon the issuance of a new permit to that user.

Duty to Comply

Permittee shall comply with all conditions of this permit. Compliance with this permit does not relieve Permittee of responsibility for compliance with all applicable federal, state, and local pretreatment standards, including those that become effective during the term of this permit. Such standards include, but may not be limited to:

- *Code of Federal Regulations*, Title 40, Chapter I, Subchapter N (United States Environmental Protection Agency))
- *Industrial Pretreatment Regulation* (C.O.W)

Duty to Mitigate

Permittee shall take all reasonable steps to minimize or correct any adverse impacts to the POTW or the environment resulting from noncompliance with this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncompliant discharge.

Duty to Halt or Reduce Activity

Upon reduction of efficiency of operation, or loss or failure of all or part of the treatment facility, Permittee shall, to the extent necessary to maintain compliance with its permit, control its production or discharges until operation of the treatment facility is restored or an alternative method of treatment is provided. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

Proper Operation and Maintenance

Permittee shall at all times properly operate and maintain all facilities and systems of treatment and control which are installed or used by Permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes, but is not limited to effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process control

C. SAMPLING AND ANALYSES

The discharge shall meet the requirements of Table 1 and the conditions in the following paragraphs. Monthly average is the arithmetic mean of values for samples collected in a calendar month.

1. All records and information resulting from the monitoring activities required by this permit, including all records of analyses performed, calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained by the permittee for a minimum of three (3) years. All records relating to compliance with pretreatment standards shall be made available to officials of the City of Waycross, the Georgia Environmental Protection Division and the U.S. Environmental Protection Agency upon the proper request.

2. The permittee shall notify the City in writing at least ninety (90) days in advance of any proposed change in operations that may affect the conditions of the permit.

PART III

A. GENERAL CONDITIONS

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of this permit. Samples must be collected using flow proportional sampling techniques. In the event that flow proportional sampling is infeasible, the city may authorize the use of time proportional sampling or a minimum of four grab samples where the user demonstrates that this will provide a representative sample of the effluent being discharged. All pollutant analyses and sampling techniques shall be performed in accordance with 40 CFR Part 136, or if not included in 40 CFR Part 136, then in accordance with procedures approved by EPA.

B. ACCESS

Authorized representatives of the City, EPD, and EPA shall have the right of access and shall enter the premises of the permittee from time to time after appropriate application at the plant office for the purpose of inspection of the facilities, inspection and copying of records, and for testing and measuring the discharge from the facility. Any samples taken may be split with the permittee upon request of the permittee.

C. PERMIT TRANSFER

This permit may be transferred to a new owner, new user, different premises, or a new or changed operation only if the permittee gives at least 90 days advance notice to the City, and the City approves the wastewater discharge permit transfer. The permittee shall provide a copy of this permit to any proposed new owner or operator prior to any change. Failure to provide advance notice of a transfer renders this permit void as of the date of the facility transfer.

D. PERMIT MODIFICATION

The City may modify this wastewater discharge permit as determined necessary (i.e., new regulatory requirements, changes in user's operations, discharge violations, transfer of facility ownership, etc). If additional pretreatment and/or operation and maintenance will be required to meet the pretreatment standards, the permittee shall submit the shortest schedule by which the permittee will provide such additional pretreatment. The schedule shall be according to the conditions of the City's Sewer Use Ordinance and the completion date in this schedule shall not be later than the compliance date established for the applicable pretreatment standard.

E. PERMITTEE'S NOTICE OF VIOLATION

If sampling performed by permittee indicates a violation, the permittee must notify the City within twenty-four (24) hours of becoming aware of the violation. The permittee shall also repeat the sampling and analysis and submit the results of the repeat analysis to the director of utilities within thirty (30) days after becoming aware of the violation.

F. NOTIFICATION OF POTENTIAL PROBLEMS

In the case of any discharge, including, but not limited to accidental discharges, discharges of non-routine, episodic nature, a non-customary batch discharge, or a slug load, that may cause potential problems for the POTW; the user shall immediately telephone and notify the pretreatment manager and POTW plant superintendent of the incident. This notification shall include the location of the discharge, type of waste, concentration and volume, if known, and corrective actions taken by the user.

Within five (5) days following such discharge, the user shall, unless waived by the city, submit a detailed written report describing the cause(s) of the discharge and the measures to be taken by the user to prevent similar future occurrences. Such notification shall not relieve the user of any expense, loss, damage, or other liability which may be incurred as a result of damage to the POTW, natural resources, or any other damage to person or property; nor shall such notification relieve the user of any fines, penalties, or other liability which may be imposed pursuant to this division.

A notice shall be permanently posted on the user's bulletin board or other prominent place advising

employees whom to call in the event of a discharge described in paragraph a. above. Employers shall ensure that all employees, who may cause such a discharge to occur, are advised of the emergency notification procedure.

G. DILUTIONS

Each user must notify the City of any planned significant changes to the user's operations or system which might alter the nature, quality, or volume of its wastewater at least 90 days before the change. Significant changes, for the purpose of this requirement, include, but are not limited to flow increases of 20 percent or greater, and the discharge of any previously unreported pollutants.

No industrial user shall increase the use of potable or process water or, in anyway, attempt to dilute a discharge as a partial or complete substitute for adequate treatment to achieve compliance with the limitations contained in this permit.

H. CIVIL AND CRIMINAL REMEDIES

If any person discharges sewage, industrial wastes, or other wastes into the wastewater disposal system contrary to the provisions of this permit or any order issued hereunder, the City may commence an action for appropriate legal and/or equitable relief in the Ware County Court.

Injunctive relief: Whenever a user has violated or continues to violate the division or any order or permit issued hereunder, the city, through counsel may petition the court for its issuance of a preliminary or permanent injunction or both (as may be appropriate) which restrains or compels the activities on the part of the user. The city may also initiate nuisance abatement proceedings in the municipal court of the city, as an alternate remedy.

Civil penalties: Any user who has violated or continues to violate the division or any order or permit issued hereunder, shall be liable to the city for a civil penalty of up to at least one thousand dollars ($1,000.00) plus actual damages incurred by the POTW per violation per day for as long as the violation continues. In addition to the above described penalty and damages, the city may recover

Reasonable attorneys' fees, court costs, and other expenses associated with the enforcement activities, including sampling and monitoring expenses.

The city shall petition the municipal court of the city or any state court having jurisdiction to impose, assess, and recover such sums. In determining amount of liability, the municipal court of the city or any state court having jurisdiction shall take into account all relevant circumstances, including, but not limited to, the extent of harm caused by the violation, the magnitude and duration, any economic benefit gained through the user's violation, corrective actions by the user, the compliance history of the user, and any other factors as justice requires.

Criminal prosecution: Any user who willfully or negligently violates any provision of this division or any orders or permits issued hereunder shall, upon conviction in the municipal court of the city, be guilty of a misdemeanor, punishable by a fine not to exceed one thousand hundred dollars ($1000.00) per violation per day or imprisonment for not more than six (6) months or both.

Any user who knowingly makes any false statements, representations, or certifications in any application, record, report, plan or other document filed or required to be maintained pursuant to this division, or wastewater permit, or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required under this division shall, upon conviction, be punished by a fine of not more than one thousand dollars ($1000.00) per day or imprisonment for not more than six (6) months or both.

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The City of Waycross prohibits the discharge of hazardous materials as defined in 40 CFR Part 261. Any user who commences the discharge of hazardous waste shall notify the POTW, the EPA Regional Waste Management Division Director, and Georgia Environmental Protection Division Hazardous Waste Program, in writing, of any discharge into the POTW of a substance which, otherwise disposed of, would be a hazardous waste under 40 CFR Part 261.

At least once every two (2) years, the director of public works shall evaluate whether each significant industrial user needs an accidental discharge/slug control plan. The City Manager may require any user to develop, submit for approval, and implement such a plan. Alternatively, the director of public works may develop such a plan for any user. An accidental discharge/slug control plan shall address, at a minimum, the following:

a. Description of discharge practices, including non-routine batch discharges;
b. Description of stored chemicals;
c. Procedures for immediately notifying the POTW superintendent of any accidental or slug discharge, as required by section 32-37(d)(6)a. of the Sewer Use Ordinance.
d. Procedures to prevent adverse impact from any accidental or slug discharge. Such procedures include, but are not limited to, inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site runoff, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants, including solvents, and/or measures and equipment for emergency response.

J. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit for any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

Appendix A
Priority Pollutant Metals and Detection Limits

Antimony	5 µg/l
Arsenic	5 µg/l
Beryllium	1 µg/l
Cadmium	0.7 µg/l
Chromium (Total)	5 µg/l
Copper	6 µg/l
Lead	1 µg/l
Mercury	0.6 µg/l
Nickel	5 µg/l
Selenium	5 µg/l
Silver	5 µg/l
Thallium	1 µg/l
Zinc	10 µg/l

Appendix B
** Total Toxic Organic Pollutant list and Detection Limits

Methoxychlor	0.3 µg/l
2,4-Dichlorphenoxyacetic acid (2,4-D)	5.0 µg/l
2,4,5-Trichlorphenoxy propionic acid (TP Silvex)	10 µg/l
Cyanide	25 µg/l
Acrolein	50 µg/l
Acrylonitrile	50 µg/l
Benzene	2.0 µg/l
Bromoform (tribromomethane)	10 µg/l
Carbon tetrachloride (tetrachloromethane)	2.0 µg/l
Chlorobenzene	10 µg/l
Chlorodibromomethane	10 µg/l
Chloroethane	5.0 µg/l
2-Chloroethyl (vinyl ether)	10 µg/l
Chloroform (trichloromethane)	2.0 µg/l
Dichlorobromomethane	10 µg/l
1,1-dichloroethane	2.0 µg/l
1,2-dichloroethane	2.0 µg/l
1,1-dichloroethylene	2.0 µg/l
1,2-dichloropropane	2.0 µg/l
1,3-dichloropropylene (cis)	2.0 µg/l
1,3-dichloropropylene (trans)	2.0 µg/l
Ethylbenzene	2.0 µg/l
Methyl bromide (bromomethane)	10 µg/l
Methylene chloride (dichloromethane)	10 µg/l
Methyl chloride	10 µg/l
1,1,2,2-tetrachloroethane	2.0 µg/l

Tetrachloroethylene	2.0 µg/l	
Toluene	2.0 µg/l	
1,2-trans-dichloroethylene	2.0 µg/l	
1,1,1-trichloroethane	2.0 µg/l	
1,1,2-trichloroethane	2.0 µg/l	
Trichloroethylene	2.0 µg/l	
Vinyl chloride (chloroethylene)	10 µg/l	
2-Chlorophenol	10 µg/l	
2,4 – dichlorophenol	10 µg/l	
2,4 – dimethylphenol	10 µg/l	
2-Methyl-4,6-Dinitrophenol	50 µg/l	
2,4-dinitrophenol	50 µg/l	
2-nitrophenol	50 µg/l	
4-nitrophenol	50 µg/l	
3-Methyl-4-Chlorophenol	50 µg/l	
Pentachlorophenol	20 µg/l	
Phenol	10 µg/l	
2,4,6-trichlorophenol	10 µg/l	
Acenaphthene	10 µg/l	
Acenaphthylene	10 µg/l	
Anthracene	10 µg/l	
Benzidene		80 µg/l
Benzo(a)anthracene	10 µg/l	
Benzo(a)pyrene	10 µg/l	
3,4-Benzofluoranthene	10 µg/l	
Benzo(ghi)perylene		10 µg/l
Benzo(k)fluoranthene	10 µg/l	
Bis (2-chloroethoxy) methane	10 µg/l	
Bis (2-chloroethyl) ether	10 µg/l	
Bis (2-chloroisopropyl) ether	10 µg/l	
Bis (2-ethylhexyl) phthalate	10 µg/l	
4-bromophenyl phenyl ether	10 µg/l	
Butyl benzyl phthalate	10 µg/l	
2-chloronaphthalene	10 µg/l	
4-chlorophenyl phenyl ether	10 µg/l	
Chrysene	10 µg/l	
Dibenzo (a,h) anthracene	10 µg/l	
1,2-dichlorobenzene	10 µg/l	
1,3-dichlorobenzene	10 µg/l	
1,4-dichlorobenzene	10 µg/l	
3,3-dichlorobenzidine	20 µg/l	
Diethyl phthalate	10 µg/l	
Dimethyl phthalate	10 µg/l	
Di-n-butyl phthalate	10 µg/l	
2,4-dinitrotoluene	20 µg/l	
2,6-dinitrotoluene	20 µg/l	
Di-n-octyl phthalate	10 µg/l	
1,2-diphenylhydrazine	10 µg/l	
Fluoranthene	10 µg/l	
uorene	10 µg/l	

Hexachlorobenzene	10 µg/l
Hexachlorobutadiene	10 µg/l
Hexachlorocyclopentadiene	10 µg/l
Hexachloroethane	1.0 µg/l
Indeno (1,2,3-cd) pyrene	10 µg/l
Isophorone	10 µg/l
Naphthalene	10 µg/l
Nitrobenzene	10 µg/l
N-nitrosodimethylamine	10 µg/l
N-nitrosodi-n-propylamine	10 µg/l
N-nitrosodiphenylamine	10 µg/l
Phenanthrene	10 µg/l
Pyrene	10 µg/l
1,2,4-trichlorobenzene	10 µg/l
Aldrin	0.1 µg/l
a-BHC –Alpha	0.1 µg/l
b-BHC-Beta	0.1 µg/l
Lindane	0.1 µg/l
d-BHC-Delta	0.1 µg/l
Chlordane	0.5 µg/l
4,4-DDT	0.2 µg/l
4,4-DDE	0.2 µg/l
4,4-DDD	0.2 µg/l
Dieldrin	0.1 µg/l
a-Endosulfan	0.5 µg/l
-Endosulfan	0.5 µg/l
Endosulfan sulfate	0.5 µg/l
Endrin	0.2 µg/l
Endrin aldehyde	0.2 µg/l
Heptachlor	0.1 µg/l
Heptachlor epoxide	0.1 µg/l
PCB-1242 (Arochlor 1242)	1.0 µg/l
PCB-1254 (Arochlor 1254)	1.0 µg/l
PCB-1221 (Arochlor 1221)	1.0 µg/l
PCB-1232 (Arochlor 1232)	1.0 µg/l
PCB-1248 (Arochlor 1248)	1.0 µg/l
PCB-1260 (Arochlor 1260)	1.0 µg/l
PCB-1016 (Arochlor 1016)	1.0 µg/l
Toxaphene	2.0 µg/l

Reference 17

(17)

Georgia Department of Natural Resourc
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-
Lonice C. Barrett, Commis
Environmental Protection Di
Harold F. Reheis, Di
Office: 404/657-8831 FAX: 404/463

June 6, 2003

Mr. Allen Bryson
CEO
BCX Waycross Facility
901 Francis Street
Waycross, GA 31501

SUBJECT: **USED OIL TRANSPORTER REQUIREMENTS**
BCX Waycross Facility
Waycross, Ware County
EPA I.D. Number GAR000030007

Dear Mr. Bryson:

On April 22, 2003, Marie Humphreys of the Brunswick EPD office and I conducted a Used Oil processor compliance evaluation inspection of your business. This inspection was conducted to determine your compliance status with Georgia's Rules for Recycled Used Oil Management Standards ("Rules"), Section 391-3-11-.17. It was determined that BCX has not received used oil for processing as of the inspection date, and that no violations of the Rules were observed. Please ensure that all used oil facility requirements are satisfied prior to the acceptance of used oil.

Please be advised that this business may be periodically inspected to ensure compliance with Georgia's Rules for Used Oil Management. Enclosed is a Used Oil Management Inspection Report used during the inspection. Should you have any questions or concerns, please contact me at (404) 657-8831. Thank you for your cooperation in protecting Georgia's environment.

Sincerely,

John Short
Environmental Specialist
Hazardous Waste Compliance Unit

JES/js
Enclosure: Used Oil Management Inspection Report
c: Renée Hudson Goodley
Freddie L. Dunn, Jr.
File: BCX Waycross Facility, Waycross
S:rdrive\jshort\bcx cal.doc

Georgia Department of Natural Resourc
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-
Lonice C. Barrett, C
Environmental Protec
Harold F. Reheis, Di
Phone: 404/657-8831 FAX: 404/463-

USED OIL MANAGEMENT INSPECTION REPORT

SECTION I
FACILITY INFORMATION

Facility Name: BCX Waycross Facility		
EPA Identification Number: GAR000030007		NAICS Code:
Location Address: 901 Francis Street		
City: Waycross	County: Ware	Zip Code: 31501
Mailing Address: same		
City:	State:	Zip Code:
Officials Contacted:		
Name: Allen Bryson	Title: CEO	Telephone Number: (912) 338-04

SECTION II
SUMMARY OF FINDINGS

BCX was receiving industrial wastewater during this inspection. The wastewater treatment facility plans to receive used oil from the railroad industry and possible from a military installatior according to Mr. Bryson.

The following checklist is mostly not applicable because BCX has not begun to accept, store, or process used oil.

Based on this inspection, this facility is a: Industrial Wastewater Treatment Facility			
Generator Used Oil:		Burner of Used Oil Fuel:	
Transporter of Used Oil:		Marketer of Used Oil Fuel:	
Collection/Aggregation Center of Used Oil:		Processor and/or Refiner of Used Oil:	
Samples: No		Number of Samples:	None
Photographs: Yes		Number of Photographs:	4
Inspected by: John E. Short and Marie Humphreys (Brunswick EPD Office) JES		Inspection Date: 4/22/2003	
Reviewed by: Freddie L. Dunn		Review Date: 06/02/2003	
Attachments: Facility Brochure, Photographs, Manifest Documents			
File Name: BCX Waycross Facility, Waycross		Submission for Review Date: 5/15/2003	

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SECTION III
USED OIL SPECIFICATION & REBUTTABLE PRESUMPTION (CONTINUED)

B. REBUTTABLE PRESUMPTION (279.44, 279.53, 279.63)	Yes	No	N/A	Violation
1. Does the used oil contain more than 1,000-ppm total halogens?		X	X	
a) Is the used oil metalworking oils/fluids containing paraffins that is processed, through a tolling arrangement, to reclaim metalworking oils/fluids? (If yes, the rebuttable presumption does not apply.)		X	X	
b) Is the used oil contaminated with chlorofluorocarbons (CFCs) removed from refrigeration units where CFCs are destined for reclamation? (If yes, the rebuttable presumption does not apply.)		X	X	
2. Does the facility rebut the presumption that the used oil is a hazardous waste?		X	X	
3. Does the facility demonstrate that the used oil does not contain hazardous waste? (For example, by using an analytical method from SW-846, Edition III, to show that the used oil does not contain significant concentrations of halogenated hazardous constituents listed in Appendix VIII of Part 261.)		X	X	

COMMENTS: An on-site laboratory will test for flash point, water content and halogen content. Another lab (ENCO) will test for PCB's and metals. The lab will provide BCX with a lab report for each load that leaves the site. This will ensure that the used oil is on-spec.

SECTION IV
GENERAL REQUIREMENTS

A. NOTIFICATION (279.42, 279.51, 279.62, 279.73)	Yes	No	N/A	Violation
1. Did the facility notify? (not applicable to generators)	X			
B. USED OIL STORAGE (279.22, 279.45, 279.45, 279.64)				
1. Does the facility store used oil?		X	X	
2. Is the used oil stored in tanks, containers, or units subject to regulation under 40 CFR Parts 264 or 265?	X			
3. Are the containers and aboveground tanks in good condition with no leaks?	X			

COMMENTS:
Mr. Bryson notified on December 5, 2001 in anticipation of the facility operating as a marketer and processor of used oil. There was no used oil stored in the tanks during the inspection according to Mr. Bryson.

SECTION IV
GENERAL REQUIREMENTS (CONTINUED)

	Yes	No	N/A	Violat
7. Do the records include a cross-reference to the record of used oil analyses or other information used to make the determination that the used oil meets specification? (fuel marketers only)		X	X	
8. Are records retained for at least three years?		X	X	
MANAGEMENT OF RESIDUES (279.47, 279.59, 279.67)				
1. Are materials reclaimed from the residues and used beneficially? (If yes, not a solid waste nor subject to Part 279.)		X	X	
2. Are materials produced from the residues that are burned for energy recovery? (If yes, subject to Part 279.)		X	X	
3. Are materials derived from the residues that are disposed of or used in a manner constituting disposal? (If yes, not used oil, not subject to Part 279, but are solid wastes and subject to Parts 260 through 266, 268.)		X	X	
4. Is the residue re-refining distillation bottoms used as feedstock to manufacture asphalt products? (If yes, not subject to Part 279 or Parts 260 through 266, 268.)		X	X	

COMMENTS:

IV. B. 5. The tanks are clearly labeled "used oil" even though they are not currently storing or processing used oil.

V. C. 7. BCX will be able to cross check used oil analytical by comparing the manifest with the matching analytical data supplied by ENCO.

SECTION V
SUBPART C – USED OIL GENERATOR (CONTINUED)

	Yes	No	N/A	Violation
a) Does the contract indicate the type of used oil and the frequency of shipments?		X	X	
b) Does the contract indicate that the vehicle used to transport the used oil to the processing/re-refining facility and to deliver recycled used oil back to generator is owned and operated by the used oil processor/re-refiner?		X	X	
c) Does the contract indicate that reclaimed oil will be returned to the generator?		X	X	
4. Does the generator ensure that the used oil is transported only by transporters who have obtained EPA identification numbers?		X	X	
USED OIL FILTER EXCLUSION [261.4(b)(13)]				
1. Does the generator manage used oil filters?		X	X	
a) Are the filters non-terne plated		X	X	
b) Are the filters gravity hot-drained?		X	X	

COMMENTS:

Filters will not be managed by BCX according to Mr. Bryson.

SECTION VI
SUBPART D – USED OIL COLLECTION CENTERS & AGGREGATION POINTS

	Yes	No	N/A	Violation
A. Is the facility a do-it-yourselfer used oil collection center? (If yes, used oil generator requirements apply)		X	X	
B. Is the facility a used oil collection center? (If yes, used oil generator requirements apply)		X	X	
C. Is the facility registered/licensed/permitted/recognized by a state/county/municipal government to manage used oil?		X	X	
D. Is the facility a used oil aggregation point owned by the generator? (If yes, used oil generator requirements apply)		X	X	
E. Does the facility only accept used oil collected from other used oil sites owned by the generator and/or from household do-it-yourselfers?		X	X	

COMMENTS:

SECTION VIII
SUBPART F - USED OIL PROCESSORS AND RE-REFINERS

A. PREPAREDNESS AND PREVENTION [279.529(a)]

	Yes	No	N/A	Ia
1. Is the facility maintained and operated to minimize the possibility of a fire, explosion, or any unplanned sudden or non-sudden release of used oil to air, soil, or surface water?		X	X	
2. Is the facility equipped with the following:		X	X	
a) Internal communications or alarm system?		X	X	
b) Telephone or two-way radio?		X	X	
c) Portable fire extinguishers, fire control equipment, spill control equipment, and decontamination equipment?	X		X	
d) Water or foam?		X	X	
3. Is all emergency equipment tested and maintained?		X	X	
4. Do personnel have immediate access to communications and/or alarm system?		X	X	
5. Is adequate aisle space maintained to allow the unobstructed movement or personnel, fire protection equipment, spill control equipment, and decontamination equipment to any area of the facility in an emergency?		X	X	
6. Have local authorities inspected the facility?		X	X	

B. CONTINGENCY PLAN AND EMERGENCYPROCEDURES [279.52(b)]

1. Does the facility have a contingency plan or an SPCC plan?		X	X	
2. Does the contingency/SPCC plan include:		X	X	
a) A description of arrangements agreed to by local police, fire departments, hospitals, contractors, and State and local emergency response teams?		X	X	
b) A list of names, addresses, and phone numbers (office and home) of all persons qualified to act as emergency coordinator?		X	X	
c) A list of all emergency equipment at the facility and the location and physical description of each item and its capabilities?		X	X	
d) An evacuation plan, which includes signals to be used, evacuation routes, and alternate evacuation routes?		X	X	
3. Are copies of the contingency plan and all revisions:		X	X	
a) Maintained at the facility?		X	X	
b) Submitted to all local police departments, fire departments, hospitals, and State and local emergency response teams?		X	X	
4. Is the contingency plan amended as necessary?		X	X	

SECTION VIII
PROCESSORS/REFINERS (CONTINUED)

	Yes	No	N/A	Violation
ii. The frequency of sampling to be performed and whether the analysis will be performed on-site or off-site?		X	X	
iii. The methods used to analyze used oil for the parameters specified in 279.53 or 270.72?		X	X	
iv. Whether used oil will be sampled and analyzed prior to or after any processing/re-refining?		X	X	
c) The type of information that will be used to determine the halogen content or make the on-specification used oil fuel determination?		X	X	
F. OPERATING RECORD AND REPORTING (279.57)				
1. Does the facility keep a written operating record at the facility?		X	X	
a) Does the record contain records and results of used oil analyses performed as described in the analysis plan?		X	X	
b) Does the record contain summary reports and details of all incidents that require implementation of the contingency plan?		X	X	
2. Did the facility submit a biennial report on its used oil activities? (due by March 1 even years for previous year)		X	X	
G. OFF-SITE SHIPMENTS (279.58)				
1. Does the facility use a transporter with an EPA identification number?		X	X	

COMMENTS:

This company was not receiving used oil at the time of the inspection.

VIII. B. The contingency plan is currently being finalized.

VIII. E./F. An Analysis Plan and Operating Record will be created and maintained prior to this company's acceptance of used oil according to Mr. Bryson.

VIII. F. 2. A biennial report will be required in 2004 addressing 2003 used oil activities.

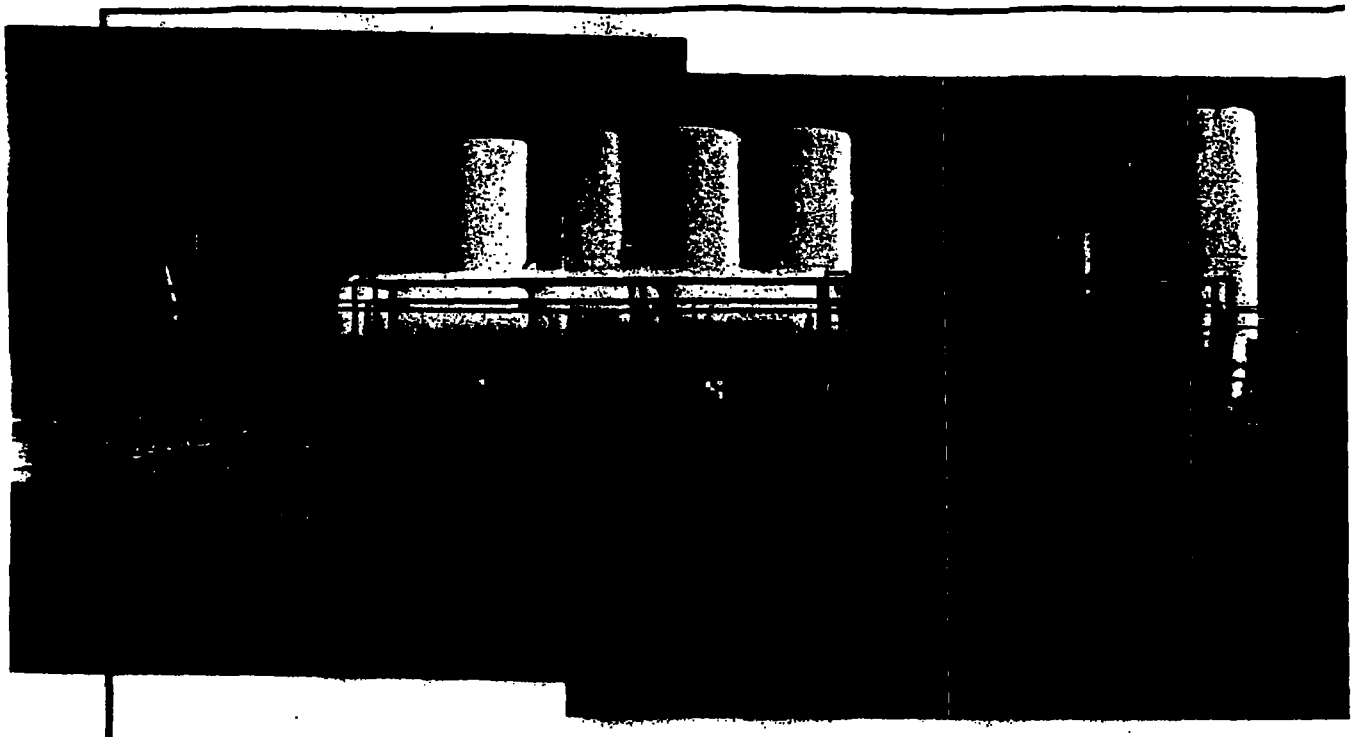
SECTION X
SUBPART H – USED OIL FUEL MARKETERS

A. PROHIBITIONS (279.71)	Yes	No	N/A	Violatio
1. Does the facility initiate shipments to burners:		X	X	
a) With an EPA identification number?		X	X	
b) That only burn in acceptable devices?		X	X	
B. ON-SPECIFICATION USED OIL FUEL (279.72)				
1. Does the facility market on-specification used oil for energy recovery?		X	X	
a) Does the facility first claim the used oil met the specifications?		X	X	
b) Are copies of analyses and/or other information retained for three years?		X	X	

C. NOTICES (279.75)				
1. Is notice obtained from the burner before the first shipment of off-specification used oil?		X	X	
a) Does the notice certify that the burner notified EPA/EPD stating the location and general description of used oil management activities?		X	X	
b) Does the notice certify that the burner will burn the off-specification used oil only in acceptable devices?		X	X	
2. Are notices retained for three years from the date of the last shipment?		X	X	

COMMENTS:

N/A is defined as not applicable

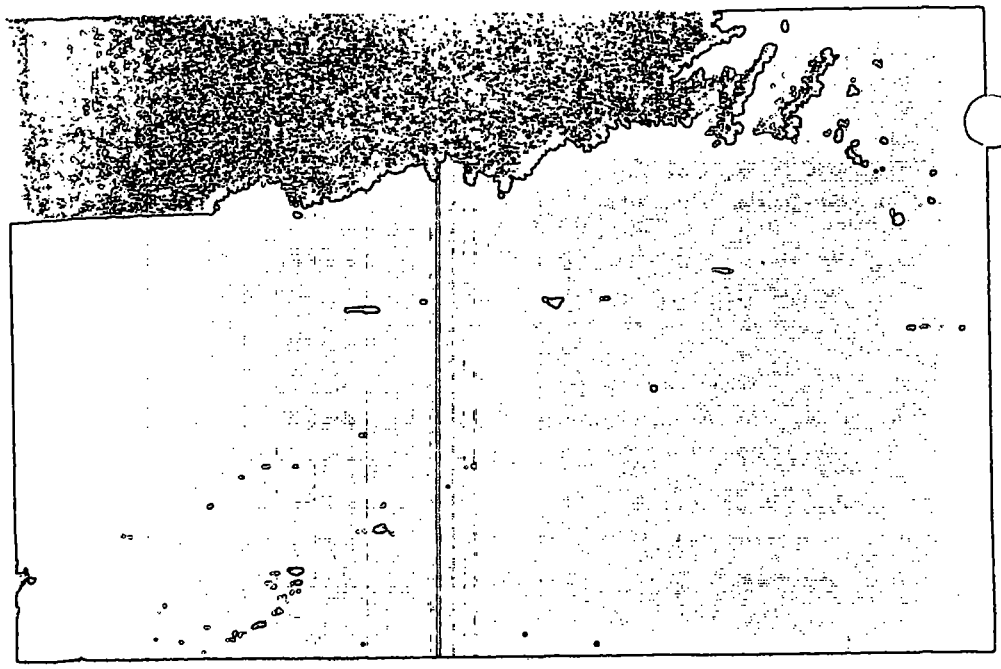


Site Name: BCX Waycross	Picture 1 and 2 of 4	County Name: Ware
Date: 4/22/2003	Photographer: John Short	

Explanation: Overview of tank farm and wastewater treatment plant (to rear of photo).

Site Name: BCX Waycross	Picture 3 of 4	County Name: Ware
Date: 4/22/2003	Photographer: John Short	

Explanation: This is where used oil will be unloaded. Solids will be collected in the green unit that will filter incoming used oil prior to storage and processing. Currently, only industrial wastewater is unloaded into the units.



Site Name: BCX Waycross	Picture 4 of 4	County Name: Ware
Date: 04/22/2003	Photographer: John Short	

Explanation: These are empty tanks and totes on the BCX Waycross Facility property. Some of these tanks will be scrapped but Mr. Bryson said the majority of them are usable and saleable. A contractor certified the tanks as empty, as documented by BCX.

Reference 18

18

City of Waycross

Office of City Engineer

ALLEN BRYSON
BCX CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR BRYSON

THIS IS A FORMAL "NOTICE OF VIOLATION" FOR THE MONTH OF MAY,2003. THE PARAMETERS IN QUESTION ARE:
TN
BOD
COD
NH3
COPPER
ZINC
PLEASE SEND ME A UPDATED CORRECTIVE ACTION PLAN. FAILURE TO CORRECT THESE VIOLATIONS COULD RESULT IN FINES, SURCHARGES AND /OR SEWER USE DISCONNECTION.
IF YOU HAVE ANY QUESTIONS CALL ME AT 912-287-2945

HENRY MCLAUGHLIN
PRETREATMENT COORDINATOR

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

Office of City Engineer

May 23, 2003

Mr. Alan Bryson
B.C.K. Corporation
3 Folk Street
Waycross, Georgia 31501

Dear Mr. Bryson:

During my annual inspection on May 22, 2003, I saw that your self-monitoring reports indicated that the following parameters have been left off. During the inspection we spoke of this and you showed me a letter from your laboratory stating this was a mistake on their part. At this time, this is acceptable, but in the future I will expect to see these parameters on your self-monitoring reports. The following are the parameter in question:

Carabazole
O-Cresol
P-Cresol
N-Decane
2,3-Dichloroanilina
N-Octadecane

This letter is a formal notice that I am aware of this matter and your corrective action. Thanks for your continued cooperation.

If you have any questions regarding this matter please feel free to call 287-2945.

Sincerely,

Henry McLaughlin
Industrial Pretreatment Coordinator

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

Office of City Engineer

7-21-03

ALLEN BRYSON
BCX CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR BRYSON
AFTER REVIEW OF YOUR JUNE 2003 SAMPLE REPORTS I AM ISSUING A FORMAL "NOTICE OF VIOLATION". YOU MUST SUBMIT A CORRECTIVE PLAN OF ACTION IMMEDIATELY.SINCE NITROGEN,TOTAL AND NH3 ARE DAILY SAMPLES NO REPEAT SAMPLE IS REQUIRED.WEEKLY SAMPLES SHOLD BE RESAMPLED AND SENT IN WITH CORRECTIVE PLAN OF ACTION.THE FOLLOWING IS THE PARAMETERS AND DATES OF CONCERN. FURTHER PERMIT VIOLATIONS COULD RESULT IN SERVICE DISCONNECT AND/OR SURCHARGES.

PERMIT VIOLATION FOR MONTH OF JUNE 2003

PARAMETERS	DATES
NITROGEN, TOTAL	6/2,6/3,6/5,6/9,6/10,6/11,6/12,6/25,
NH3	6/2,6/4,6/5,6/9,6/18,6/24,6/30
COPPER	6/6,6/27
ZINC	6/6,6/27
MERCURY	6/27
CYANIDE	6/27

TOTAL OF 21 PERMIT VIOLATIONS FOR MONTH OF JUNE, 2003.

IF YOU HAVE ANY QUESTIONS YOU MAY CONTACT ME AT 912-287-0342

HENRY McLaughlin
PRETREATMENT MANAGER

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

Office of City Engineer

ALLEN BRYSON
BCX CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR BRYSON

THIS IS A FORMAL "NOTICE OF VIOLATION" FOR THE MONTH OF JULY,2003. THE PARAMETERS IN QUESTION ARE:
NH3
TN
COPPER
ZINC
PLEASE SEND ME A UPDATED CORRECTIVE ACTION PLAN. FAILURE TO CORRECT THESE VIOLATIONS COULD RESULT IN FINES, SURCHARGES AND /OR SEWER USE DISCONNECTION.
IF YOU HAVE ANY QUESTIONS CALL ME AT 912-287-2945

HENRY MCLAUGHLIN
PRETREATMENT COORDINATOR

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

BCX, incorporated
An Environmental / Energy Company

July 25, 2003

Scott Murphy
Plant Engineer
BCX Inc.
912-338-0402 ext. 106

Dear Henry,

On July 24, 2003, I received a copy of our formal notice of violation for the period of June, 2003. Please note that due to our internal sampling program, we were aware of many of the problems listed and had already begun to take steps to address those problems. Even though there were 21 permit violations during the month of June, this is a significant improvement over the 86 violations that were noted during the previous month. Our corrective plan of action is currently being implemented and is already producing much improved results. What follows is a summary of the corrective steps that we have taken to date and a synopsis of the corrective actions we intend to take during the next few weeks.

Phase One: The first phase of our corrective action plan actually began back in May. During this time, BCX initiated a nation wide search for a chemist with a background in contract water treatment and a history of correcting compliance issues. The new chemist was hired during the month of June and began work for BCX during the first week of July. During that first week of July, changes to our treatment programs were immediately put into place in order to address the compliance problems that were known at that time. Since that first week our daily and weekly samples have shown continual improvement.

Phase Two: During the second week of July, the BCX Water Treatment Operators went through daily training on the proper use and application of both the water treatment equipment and the water treatment chemicals. Also during this time, careful attention was paid to proper treatment pH and the careful application of a carbamate in order to remove *soluble metals*. Preliminary analytical results from this second

1859 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356.3391 • FAX (904)355 0885
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)338.0402 • FAX (912)338.090:

week of July have shown that the application of the carbamate and proper treatment pH have reduced effluent metal loading to within permit limitations.

Phase Three: During the second week of July, BCX began an intensive research project with the goal of determining the most effective means for meeting our permit requirements. This research included experiments using many types of activated carbon, bentonite clay, and several other treatment chemistries, all aimed at yielding effluent consistently within permit guidelines. Also, during this time period research was conducted and continues to be conducted on the possible application of new equipment such as a pH control system, sand filters, ammonia air-stripper, ozone generators, and activated carbon filters.

Phase Four: In order to help meet compliance guidelines, BCX has begun training its sales force on the types of waters that will and will not be accepted by this facility. Also, all existing accounts are in the process of being characterized by our internal laboratory to identify those accounts which contain contaminants that would contribute to a possible permit violation. As this process is completed, those waste streams identified as containing high levels of ammonia, nitrogen, and other problematic pollutants will be segregated for individual treatment using specialized treatment processes.

Phase Five: On July 22, 2003, a shipment of new water treatment chemicals was received by BCX and immediately implemented into our water treatment processes. The use of these chemicals is a direct result of the research that was conducted during the first two weeks of July. This represents a significant investment by BCX with the goal of meeting our permit requirements. Also, on the same date, new laboratory equipment was ordered, which will allow BCX to test for such problematic contaminants as ammonia and total nitrogen in-house without the delay of waiting for results from an outside laboratory. Our intention is to test all water prior to discharge in our laboratory in order to determine whether or not further treatment is necessary to lower parameters such as COD, TSS, TN, Ammonia, and metals such as Copper, Zinc, and Lead.

BCX, Incorporated

An Environmental / Energy Company

Phase Six: BCX management has made a commitment to the production and/or purchase of new equipment such as: a pH control system, sand filtration system, and a carbon filtration system. We are currently doing extensive research into the best equipment for our particular application. As soon as we have determined the best equipment for our application, I will submit to you a detailed explanation of the equipment and copies of the research that helped to make the determination.

During the last week we have implemented new techniques and new chemistries, which will have a major impact on the quality of our effluent. As soon as our new test equipment arrives, we will begin holding all effluent prior to release while analytical work is done by our in-house lab. If we have any indication of a potential parameter violation, the water will be held and retreated. As soon as BCX has made the determination on which equipment will be built or purchased, we will notify your office and seek your input and approval.

If you have any questions, please contact me at (912) 338-0402.

Thank you,

Scott Murphy

1859 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356.3391 • FAX (904)356.0885
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)338.0402 • FAX (912)338.0903

City of Waycross

Office of City Engineer

9-16-03

ALLEN BRYSON
BCX CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR BRYSON

AFTER REVIEW OF YOUR AUGUST 2003 SAMPLE REPORTS I AM ISSUING A FORMAL "NOTICE OF VIOLATION". YOU MUST SUBMIT A CORRECTIVE PLAN OF ACTION IMMEDIATELY.WEEKLY SAMPLES SHOLD BE RESAMPLED AND RESULTS SENT IN WITH CORRECTIVE PLAN OF ACTION.THE FOLLOWING IS THE PARAMETERS OF CONCERN. FURTHER PERMIT VIOLATIONS COULD RESULT IN SERVICE DISCONNECT AND/OR SURCHARGES.

PERMIT VIOLATION FOR MONTH OF AUGUST 2003

<u>PARAMETERS</u>
NH3
TN
COPPER
ZINC
P-CRESOL

IF YOU HAVE ANY QUESTIONS YOU MAY CONTACT ME AT 912-287-2945

HENRY McLaughlin
PRETREATMENT MANAGER

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

Office of City Engineer

10-16-03

SCOTT MURPHY
BCX CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR MURPHY

AFTER REVIEW OF YOUR SEPTEMBER 2003 SAMPLE REPORTS I AM ISSUING A FORMAL "NOTICE OF VIOLATION". YOU MUST SUBMIT A CORRECTIVE PLAN OF ACTION IMMEDIATELY.SINCE NITROGEN, TOTAL AND NH3 ARE DAILY SAMPLES NO REPEAT SAMPLE IS REQUIRED.WEEKLY SAMPLES SHOLD BE RESAMPLED AND SENT IN WITH CORRECTIVE PLAN OF ACTION.THE FOLLOWING IS THE PARAMETERS. FURTHER PERMIT VIOLATIONS COULD RESULT IN SERVICE DISCONNECT AND/OR SURCHARGES.

PERMIT VIOLATION FOR MONTH OF: SEPT 2003
PARAMETERS

NITROGEN, TOTAL
NH3
ZINC
SILVER

ZINC AND SILVER ARE CONSIDERED INSIGNIFICANT VIOLATIONS. NH3 AND TOTAL NITROGEN ARE CONSIDER SIGNIFICANT VIOLATIONS. THIS NEEDS YOUR IMMEDIATE ATTENTION.

IF YOU HAVE ANY QUESTIONS YOU MAY CONTACT ME AT 912-287-2945

Henry S McLaughlin

HENRY McLaughlin
PRETREATMENT MANAGER

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

Office of City Engineer

11-19-03

SCOTT MURPHY
BCK CORPORATION
3 FOLK ST
WAYCROSS GA 31502

MR MURPHY

THIS IS A FORMAL "NOTICE OF VIOLATION" FOR THE MONTH OF OCTOBER 2003. THE PARAMETERS IN QUESTION ARE:
NITROGEN, TOTAL (TN)
AMMONIA
BARIUM
PLEASE SEND ME AN UPDATED CORRECTIVE ACTION PLAN. FAILURE TO CORRECT THESE VIOLATIONS COULD RESULT IN FINES, SURCHARGES AND/OR SEWER USE DISCONNECTION. WHILE I UNDERSTAND YOUR EFFLUENT IS IMPROVING THIS TYPE OF PERMIT VIOLATION IS UNACCEPTABLE. AT PRESENT OUR TREATMENT PLANT IS HAVING AN AMMONIA REMOVAL PROBLEM AND CAN HANDLE NO MORE THAN PERMITTED LEVELS. IF YOU HAVE A PLAN TO ADDRESS YOUR AMMONIA PROBLEM THEN FORWARD THIS TO ME IMMEDIATELY.
IF YOU HAVE ANY QUESTIONS CALL ME AT 912-287-2945

Henry S McLaughlin

HENRY MCLAUGHLIN
PRETREATMENT COORDINATOR

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

BCX, Incorporated
An Environmental / Energy Company

Henry Mclaughlin
Pretreatment Coordinator
Waycross, GA 31501
November 29, 2003

Mr Mclaughlin:

I sincerely apologize for any additional burden that BCX is placing on the treatment plant in terms of additional ammonia loading. I understand that we need to correct our ammonia problem as quickly as possible in order to relieve this burden from your plant. As the weather has cooled substantially and the leachate ammonia levels coming to us have increased, we have found it increasingly difficult to meet our permit requirements. The analytical results that I have thus far for November show an increase in both our influent and effluent ammonia levels, this at a time when Waycross is having so much difficulty with the same issue. I'm including in this letter our plan for dealing with this ammonia problem as well as our plan for some radical changes to our plant design, which should help to make BCX a better partner with the city for waste water treatment.
I ask for your patience over the next few weeks as we implement these changes. We hope to have these changes implemented by the end of January, 2004.

Step One: We have ordered and expect to take delivery of a ISCO autosampler model 3710FR with the next week. This model is fully flow proportional and is currently being programmed for our flowmeter. This will help to get completely accurate flow proportioned analytical results for our plant. Currently, the best way we have to composite sample is to pull samples from every tank before we discharge and combine them for our sample.

Step Two: We are having a steam system installed which will allow us bring the water up to temperature in order to allow our activated carbon to function more efficiently. The steam injections will also help to strip off our ammonia. This work is currently in process and should be finished by December 6.

Step Three: After we are able to get our water to the proper temperature, I am sending off samples to a company called Aeromix in Minneapolis MN. They will use this information to size a stripper to remove the vast majority of our ammonia, certainly enough to meet our permit requirements. I am including two of the quotes they have sent

1859 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356.3391 • FAX (904)356.0885
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)338.0402 • FAX (912)338.090:

BCX, Incorporated
An Environmental / Energy Company

me for your scrutiny. If you have any concerns please touch base with me so that we can answer them be fore we commit to the purchase. Also, if you plan to revise down my ammonia limit, please give me some idea of what the new limit might be, as I will definitely need to take this into consideration when determining which model to purchase.

Step Four: We are taking the two large 44,000 gallon tanks currently on the lot and are converting them to equalize our effluent flow. Currently we discharge all of our water during one shift, which may be causing the treatment plant some difficulty because of our loading. With the tanks in place, our discharge will drop to a steady 35gpm (based on current flows) instead of the 150gpm pulses of flow from individual treatment tanks that we currently release. I am currently trying to find or develop a level sensing system which I can install to accomplish this.

Step Five: I am currently conducting biotoxicty studies of all of my individual accounts in order to determine if we are processing something, which may be causing harm to the city treatment system. If something does come back as toxic we will develop an alternative treatment for the water from the account. Please forward to me the name and number of the lab that you recommend for the new style of test.

Step Six: You have indicated that you may need to adapt our discharge permit to reduce BOD and COD loadings on the plant. If you would get those new numbers to me as quickly as possible I would greatly appreciate it as I may need to change some plans I have to meet those new levels. If they are lowered substantially, I will need to investigate further effluent polishing techniques such as ultra filtration or carbon filtration.

If you have any questions, please call me at 338-0402.

Sincerely,

Scott Murphy
General Manager

1859 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356.3391 • FAX (904)356.0885
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)338.0402 • FAX (912)338.0802

City of Waycross

Office of City Engineer

01-26-04

SCOTT MURPHY
BCX CORPORATION
901 FRANCIS ST
WAYCROSS GA 31502

MR MURPHY

AFTER REVIEW OF YOUR DECEMBER 2003 SAMPLE REPORTS I AM ISSUING A FORMAL "NOTICE OF VIOLATION". YOU MUST SUBMIT A CORRECTIVE PLAN OF ACTION IMMEDIATELY.SINCE B.O.D, COD, NITROGEN, TOTAL AND NH3 ARE DAILY SAMPLES NO REPEAT SAMPLE IS REQUIRED.WEEKLY SAMPLES SHOLD BE RESAMPLED AND SENT IN WITH CORRECTIVE PLAN OF ACTION. THIS CORRECTIVE ACTION PLAN SHOULD INCLUDED STEPS BEING TAKEN AND PROCESS BEING ADDED TO PUT YOUR FACILITY DISCHARGING WITHIN PERMIT [illegible] THE FOLLOWING IS THE PARAMETERS. FURTHER PE[illegible] ULD RESULT IN SERVICE DISCONNECT AND/OR S[illegible]RGES.

PERMIT VIOLATION FOR MONTH OF DEC 2003

<u>PARAMETERS</u>
BOD
COD
NITROGEN, TOTAL
NH3
COPPER
ZINC

BOD, COD, NH3 AND TOTAL NITROGEN ARE CONSIDER SIGNIFICANT VIOLATIONS. THIS NEEDS YOUR IMMEDIATE ATTENTION

IF YOU HAVE ANY QUESTIONS YOU MAY CONTACT ME AT 912-287-2945

HENRY MCLAUGHLIN
PRETREATMENT MANAGER

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

Reference 19

City of Waycross

Office of City Engineer

February 18, 2004

Mr. Scott Murphy
BCX Corporation
901 Francis Street
Waycross, Georgia 31502

Mr. Murphy:

After reviewing your January 2004 sample reports, The City of Waycross is issuing a formal *"Notice of Violation"*. BCX should submit a corrective action plan immediately. Since B.O.D., COD, Nitrogen, Total and NH3 are daily samples, no repeat sampling is required. Only weekly samples should be re-sampled and submitted with the corrective action plan. The corrective action plan should include steps taken and the process added to put your facility discharging within permitted levels. Further permit violations could result in a disconnected service and/or surcharges.

Permit Violations for month of January 2004

Parameters:
BOD
COD
Nitrogen, Total
NH3
Lead
Barium
Cadmium
Copper
Zinc

BOD, COD, NH3 and Total Nitrogen are considered significant violations. This matter needs your immediate attention. BCX's DMR should be updated with the correct parameter limits.

If you have any question you may call 912-287-2945

Sincerely,

Henry McLaughlin
Pre-treatment Manager

P.O. Drawer 99
Waycross, Georgia 31502
912/287-2945

City of Waycross

OFFICE OF CITY MANAGER

CONSENT ORDER

CITY OF WAYCROSS, GEORGIA

IN THE MATTER OF	ADMINISTRATIVE ORDER	
BCX, Incorporated 901 Francis Street Waycross, Georgia 31501	CONSENT ORDER	

LEGAL AUTHORITY

The following findings are made and order issued pursuant to the authority vested on the City Manager, under Section 32-38 of the City's Industrial Waste Development for the City of Waycross for NPDES Permit No. [illegible] and [illegible] pursuant to City's Sewer Use Ordinance ("Local Limit Regs."). This order is based on findings of violation of the conditions of the wastewater discharge permit issued under Section 32-37 of the City's Local Limit Regs.

FINDINGS

1. BCX, Incorporated [illegible] charges non-domestic wastewater containing pollutants into the sanitary sewer system of the City of Waycross (hereafter, "City").

2. BCX, Incorporated [illegible] "significant industrial user" as defined by Section 32-31 of the City's Local Limit Regs.

3. BCX, Incorporated was issued wastewater discharge permit (Industrial Pretreatment Program, Permit Number [illegible] hereinafter referred to as "Permit") on April 1, 2002 which contains prohibitions, [illegible] and limitations on the quality of the wastewater it discharges to the sanitary sewer.

4. Pursuant to the ordinance, Local Limit Regs., and the above-referenced Permit, data is routinely collected or submitted on the compliance status of BCX, Incorporated.

5. This data shows that BCX, Incorporated has violated its Permit in the following manner:

   - BCX, Incorporated has been issued notice of violations for the following months: May 2003, June 2003, July 2003, August 2003, September 2003, October 2003, December 2003, and January 2004. Details of the violations are more specifically set forth in the individual notices which have been forwarded to BCX, Incorporated for each month listed herein.

   - Each of the notices sent to BCX, Incorporated required BCX, Incorporated to submit a corrective action plan to address the violations. BCX, Incorporated has failed to submit a Corrective Action Plan that addresses how it will comply with its Permit for discharge of non-domestic wastewater under the Permit.

   - All of these violations satisfy the City's definition of significant violations.

P.O. DRAWER 99
WAYCROSS, GEORGIA 31502-0099
912/287-2812
FAX 912/287-2990
cmanager@waycrossga.com

City of Waycross

OFFICE OF CITY MANAGER

ORDER

THEREFORE, BASED ON THE ABOVE FINDINGS, BCX, INCORPORATED IS HEREBY ORDERED TO:

1. Take whatever steps necessary to adequately treat the wastewater of BCX, Incorporated to a level which will comply with its wastewater discharge permit immediately.

2. Prior to March 10, 2004, provide sufficient documentation in the form of a corrective action plan to demonstrate that the waste of BCX, Incorporated will be in compliance with its wastewater discharge permit.

3. Beginning March 10, 2004, BCX, Incorporated will be assessed a fine of $1,000 per day for each day in which BCX, Incorporated violates its discharge permit in accordance with Section 32-38 (f) of the Local Limit Regs. Fines shall be paid on a monthly basis and are due within 10 days of notice of violation.

4. If permit violations continue for the period from April 1, 2004 through April 15, 2004 City may, with notice to BCX, Incorporated, terminate the Permit and BCX, Incorporated will no longer be allowed to discharge wastewater into the City of Waycross sanitary sewer system.

5. All reports and notices required by this order shall be sent, in writing, to the following address:

   Mr. Henry McLaughlin
   Pretreatment Manager
   Wastewater Treatment Plant
   P. O. Box 99
   Waycross, Georgia 31502

6. This consent order does not constitute a waiver of the Permit, which Permit remains in full force and effect. The City reserves the right to seek any and all remedies available to it under Section 32-89 of the Local Limit Regs. and pursuant to applicable law for any violation cited by this order as well as any violation that takes place hereafter.

7. Failure to comply with the requirements of this order shall constitute further violation of the Sewer Use Ordinance and Local Limit Regs. and may subject BCX, Incorporated to civil or criminal penalties or such other appropriate enforcement response as may be appropriate.

8. This Consent Order is effective March 10, 2004 and shall remain in effect until March 1, 2005, unless modified, extended, or terminated by the Parties or by order of any court of competent jurisdiction.

P.O. DRAWER 99
WAYCROSS, GEORGIA 31502-0099
912/287-2812
FAX 912/287-2990
cmanager@waycrossga.com

City of Waycross

OFFICE OF CITY MANAGER

This the 27 day of Jan, 2004.

Signed: _____
James H. Nulley, Jr.
City Manager

Agreed to and consented to, BCK, Incorporated

By: _____

P.O. DRAWER 99
WAYCROSS, GEORGIA 31502-0099
912/287-2912
FAX 912/287-2990
cmanager@waycrossga.com

Reference 20

Scan 4.5
Copy

BCX, Incorporated
An Environmental / Energy Company

March 3, 2004

Mr. Henry McLaughlin
Industrial Pretreatment Coordinator
City of Waycross
Water and Wastewater Department
PO Drawer 99
Waycross, GA 31502

Dear Mr. McLaughlin;

This letter will confirm our discussion at the City Manager's office earlier this afternoon.

BCX has immediately and voluntarily disconnected its facility located at #3 Folks Street, Waycross, Georgia from the City of Waycross Municipal Wastewater System.

Our facility will remain disconnected until the City of Waycross and BCX agree in writing that the connection may be restored. As agreed, we are working on a plan which we will present to you next week.

We sincerely appreciate everyone's participation in today's meeting.

Sincerely,

Ferrell J Carden
President

Cc: James H. Nalley, Jr. City Manager
Neal L. Conner, Jr., Esq
W.E. Bland City Engineer
Daniel E. Groselle, PE
J. Clay Sykes, PE

1859 EAST ADAMS ST. · JACKSONVILLE, FL 32202 · TEL. (904)356.3391 · FAX (904)356.0885
901 FRANCIS ST. · WAYCROSS, GA 31501 · TEL. (912)338.0402 · FAX (912)338.0902

Reference 21

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-9000
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Office: 404/657-8831 404FAX: 404/657-8831

TRIP REPORT

April 8, 2004

SITE NAME AND LOCATION:	BCX Waycross Facility (BCX, Incorporated) 901 Frances Street Waycross, GA 31501
EPA ID NUMBER:	GAR000030007
COUNTY:	Ware
TRIP BY:	John E. Short JES Environmental Specialist Hazardous Waste Compliance Unit
DATE OF INVESTIGATION:	April 6, 2004
OFFICIALS CONTACTED:	Phil DeMarco, Plant Manager John Kalp, Environmental Specialist, EPD Coastal District Municipal Team
REFERENCE:	March 2003 Inspection Report

COMMENTS:

I. Background

This inspection was to be conducted as an evaluation of a used oil facility that notified as a used oil processor. This company ceased accepting industrial wastewater and stopped discharging to the Waycross POTW on March 1, 2004.

The City of Waycross issued Notices of Violation and an Administrative Order to BCX, Inc. due to many exceedances of the company's pre-treatment permit. This facility voluntarily shutdown on March 1, 2004 after their third wastewater pre-treatment permit with the city of Waycross went into effect. Allegedly, the new permit was issued in January and went into effect March 1, 2004 required parameters that were lower than in the previous two permits with the city. According to Mr. DeMarco, parameters set in the permit were cut in half, which would require different treatment including ultra filtration. BCX, Inc. viewed the permit as impossible to meet and therefore voluntarily

closed. Additionally, the company had received 8 enforcement letters from May 2003 to December 2003 from the city of Waycross. In January, an Administrative Order was issued to BCX, Inc. from the city.

II. Findings

Wastewater is treated with the treatment process being adjusted (based on the results of treatability testing for each customer) for each batch to ensure the end product meets pretreatment standards. In general, the following wastewater steps are employed: Metals removal, Biological Oxygen Demand adjustment, total nitrogen removal, pH adjustment, total suspended solids removal, solids removal to filter press, sampling, analysis, and discharge to the city of Waycross. The following treatment chemicals are stored in bulk within secondary containment: Ferric acid, aluminum sulfate, sodium hydroxide and sulfuric acid.

Water is sent to through the wastewater treatment process (and eventually discharged to the City of Waycross POTW) and filter press sludge is sent to a Title V landfill (Broadhurst Environmental owned by Republic Services in Screvin, Georgia). Filter press sludge analytical (TCLP results) tested non-hazadous two separate times and is attached.

Each tank is equipped with an electronic high-level indicator that sounds a horn to alert employees that the pump failed or level dropped in the event of a release. The secondary containment holds the capacity of the 3 largest tanks. A recommendation was made to Mr. DeMarco to have the tank farm fenced in because it is very accessible to the public.

Some tanks are clearly labeled "used oil" even though they are not currently storing or processing used oil. The oil-water separator near the treatment tanks has not been used very often according to Mr. DeMarco. When it was used, a "miniscule" amount of oil was generated as stated by Mr. DeMarco. The separator was empty during the inspection. According to records, there have not been shipments of used oil from the facility. It is not clear where an oil layer, if present in wastewaters accepted, is sent to, be it the oil/water separator or a tank. Any oil would need to be tested for halogens and then sent off-site for energy recovery.

Mr. DeMarco stated that some of the tanks contained treated wastewater, untreated wastewater, and mixtures of various wastewaters from different customers. There was no documentation available that demonstrated exactly what was in each tank. Tanks were holding "retreated liquid, off-product, and mixtures" in different tanks. Mr. DeMarco indicated that the liquid stored in the containers was intended to go thru the treatment process and discharged to the city.

III. Record Review

Waste profiles for all customers (except the Bold and Hawaiian Tropic facilities) daily and weekly laboratory analytical wastewater effluent data (April 2003 – September 2003), manifests for January – May 2003 and a manifest/client summary document (attached).

A hand-written document dated 3/12/04 was obtained (attached) that indicated the gallons of liquid in each tank and the source, if applicable. Two of the tanks were empty according to the log. The only three customers referenced are GA Pacific, Colomer and Hawaiian Tropic.

Some of the profiles in the facility files were not for material accepted by BCX, Inc. according to Mr. DeMarco and manifests. For example, International Agile Mfg. (profile attached as "IAM") generates used oil and water and the company was a potential BCX, Inc. client; however, the material was never accepted by BCX, Inc. The profiles for Bold and Hawaiian Tropic were not reviewed during the inspection.

BCX, Inc. mainly receives "non-hazardous wastewater" as identified on manifests. Water from used oil refineries such as Four-Way Oil, Inc. in Cairo and Coastal Refining Co. in the past have sent "petroleum contact water/non-regulated wastewater (oily)" to BCX, Inc. for treatment. The waste profile and manifests for Four-Way Oil, Inc. are attached.

This company also receives landfill leachate from two different landfills – Nassau County, Florida landfill and Broadhurst Environmental in Screvin, Georgia. Vegetable oil and water is received from Colomer, which is similar to the Hawaiian Tropic wastewater according to Mr. DeMarco.

CONCLUSIONS:

This facility is not currently a used oil processor. However, facility representatives plan on processing used oil at some point.

There was one violation observed during the inspection:

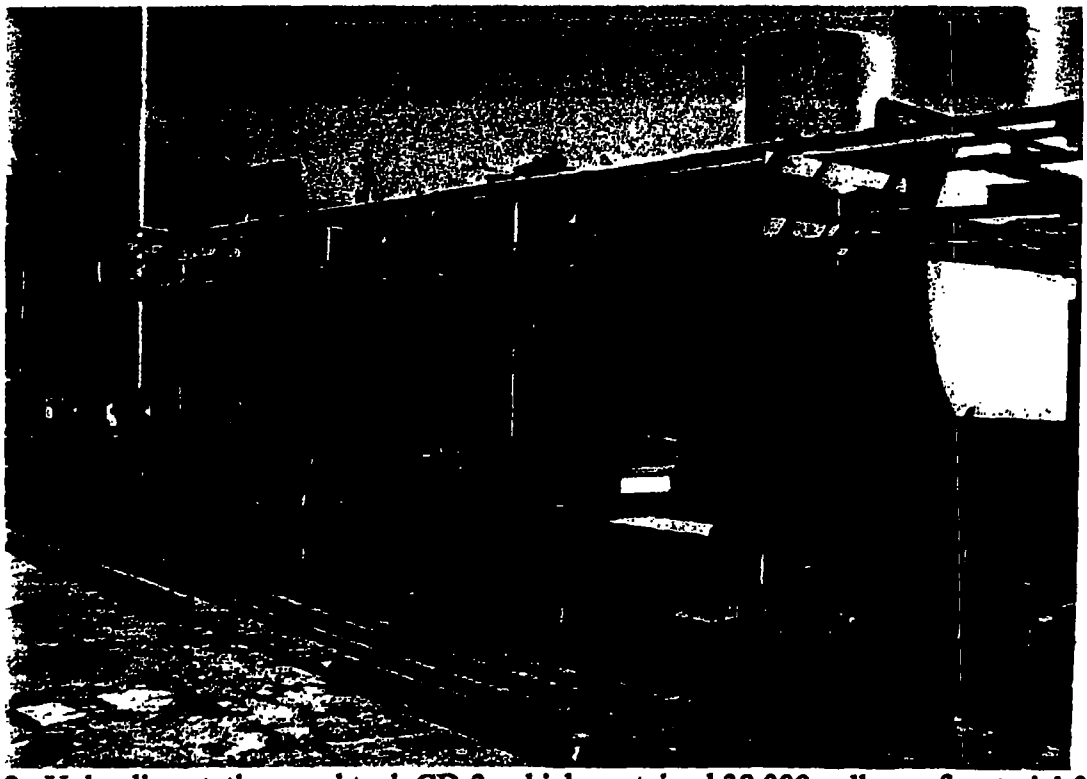
40 CFR Section 262.11, "Hazardous Waste Determination" – because the owner/operator failed to determine the contents of 27 tanks located in the facility aboveground tank farm and in the flocculation containers.

There were no violations of 40 CFR Part 279 observed during the inspection.

BCX WAYCROSS FACILITY
WAYCROSS, WARE COUNTY

APRIL 6, 2003
PHOTOS BY JOHN SHORT

1. Overview of BCX tank farm as viewed from the office. This is where various transporters contracted thru BCX, Inc. unload incoming material. The four unloading stations are the darkened areas in front of the secondary containment curbing.

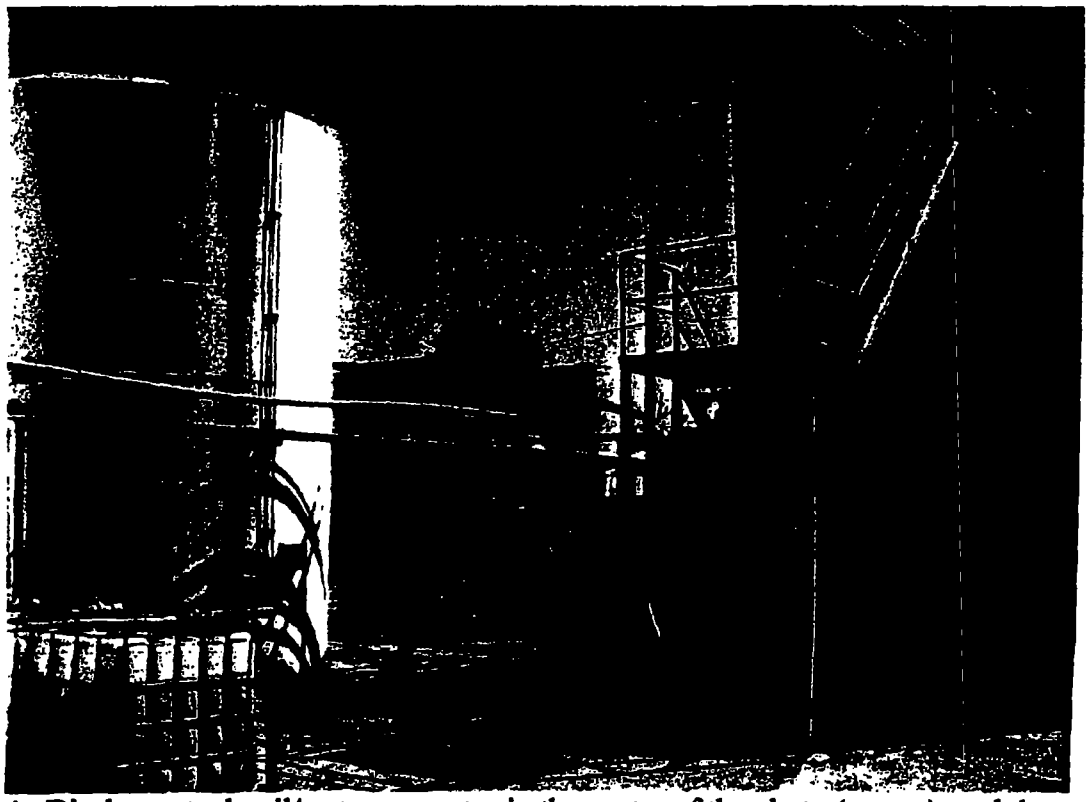


2. Unloading stations and tank CD-3, which contained 30,000 gallons of material from Georgia Pacific.

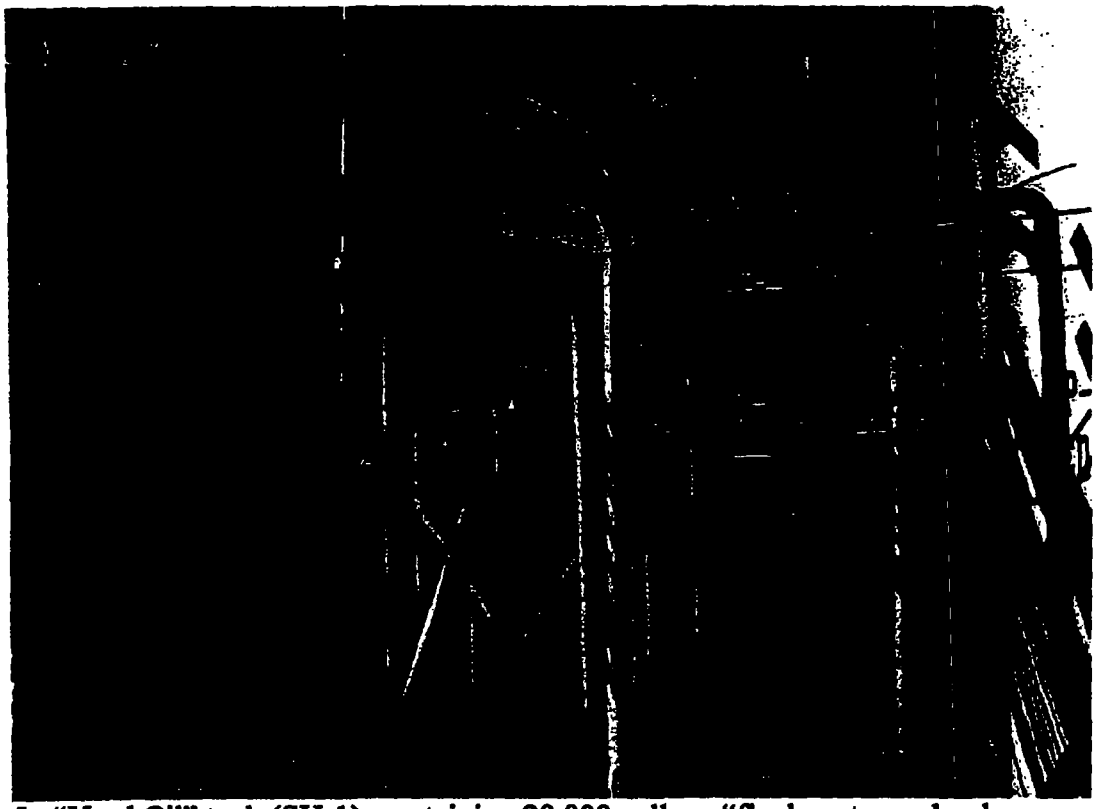
BCX WAYCROSS FACILITY
WAYCROSS, WARE COUNTY

APRIL 6, 2003
PHOTOS BY JOHN SHORT

3. Two discharge tanks, two detention tanks in the center, and the city effluent monitoring/sampling unit to the far right.



4. Discharge tank, oil/water separator in the center of the photo (empty), and the treatment area.



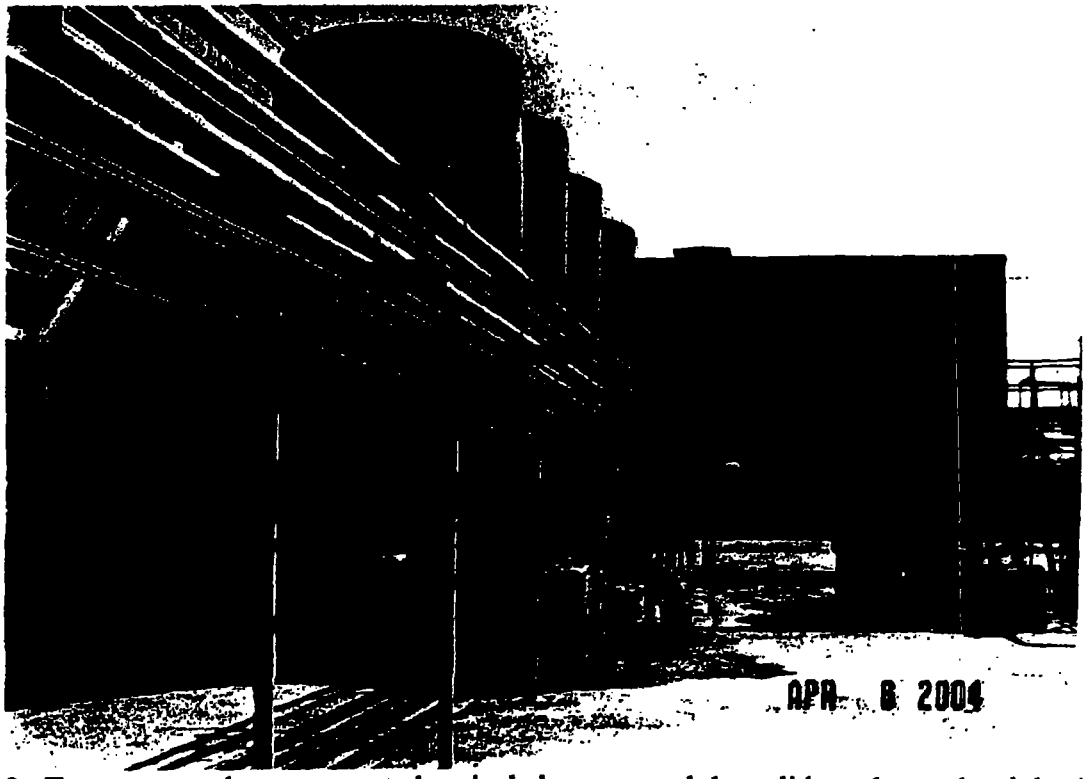
5. "Used Oil" tank (SH-1), containing 20,000 gallons "flock water and unknown mixture," boiler (not used), air compressor, air tank, and pump station.

6. "Used Oil" tanks that actually each contain 20,000 gallons "flock water and unknown mixture."

BCX WAYCROSS FACILITY
WAYCROSS, WARE COUNTY

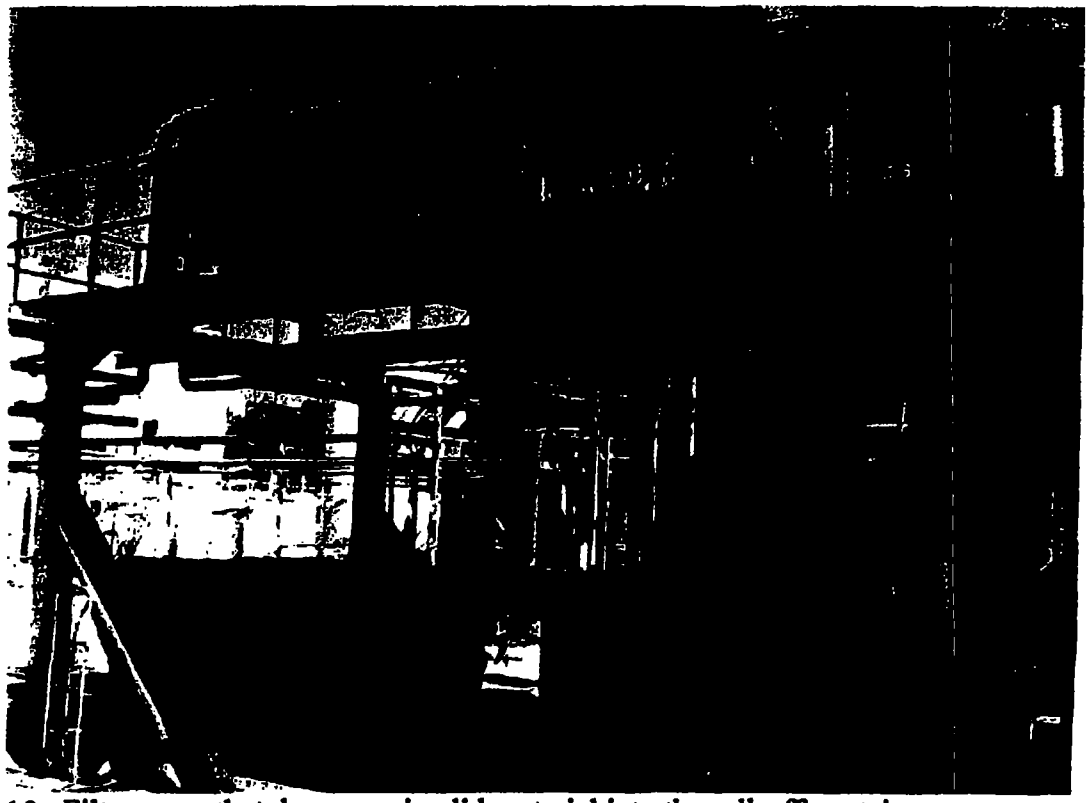
APRIL 6, 2003
PHOTOS BY JOHN SHORT

7. Treatment tanks, fill station (small green unit) and bulk storage of treatment chemicals. One of the two spill containment traps/sumps can be seen in the foreground.

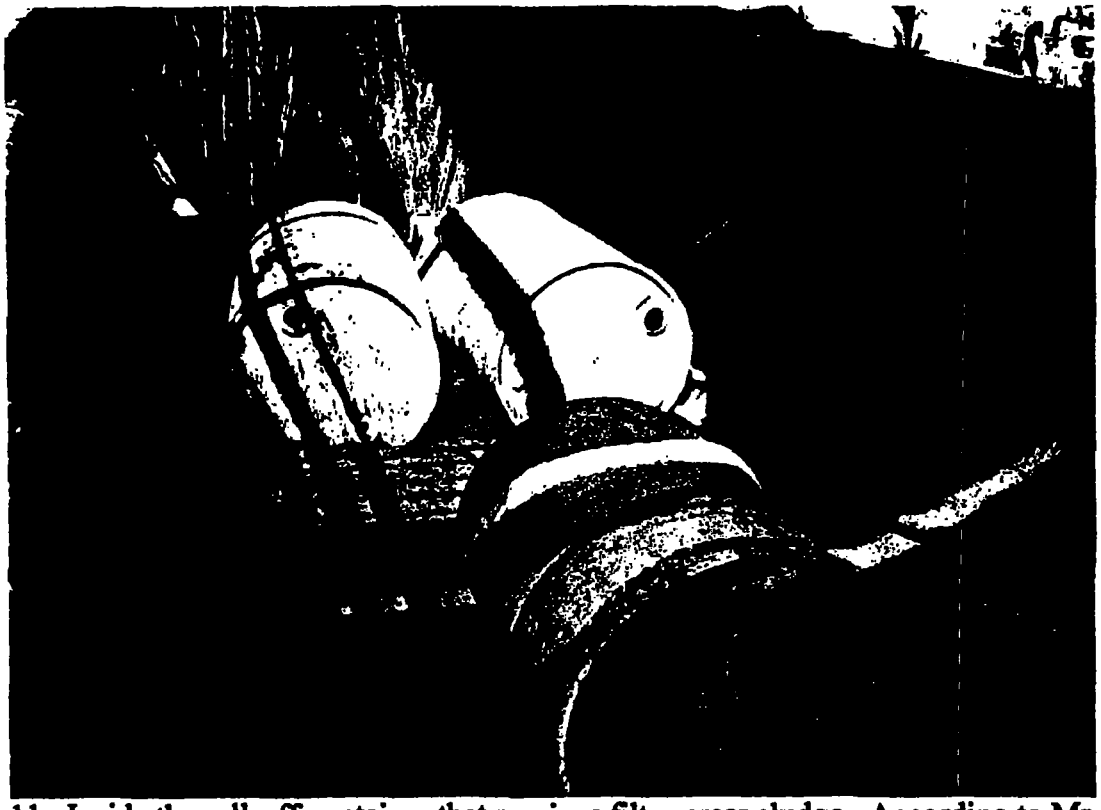


8. Treatment tanks, treatment chemicals in totes, and the solids tanks on the right that are connected to the filter press. The smaller containers on the right are used for polymer and lime mixing.

9. Solids tanks and filter press. RW-2 in the foreground contained filter press water, which is reused in the treatment process.



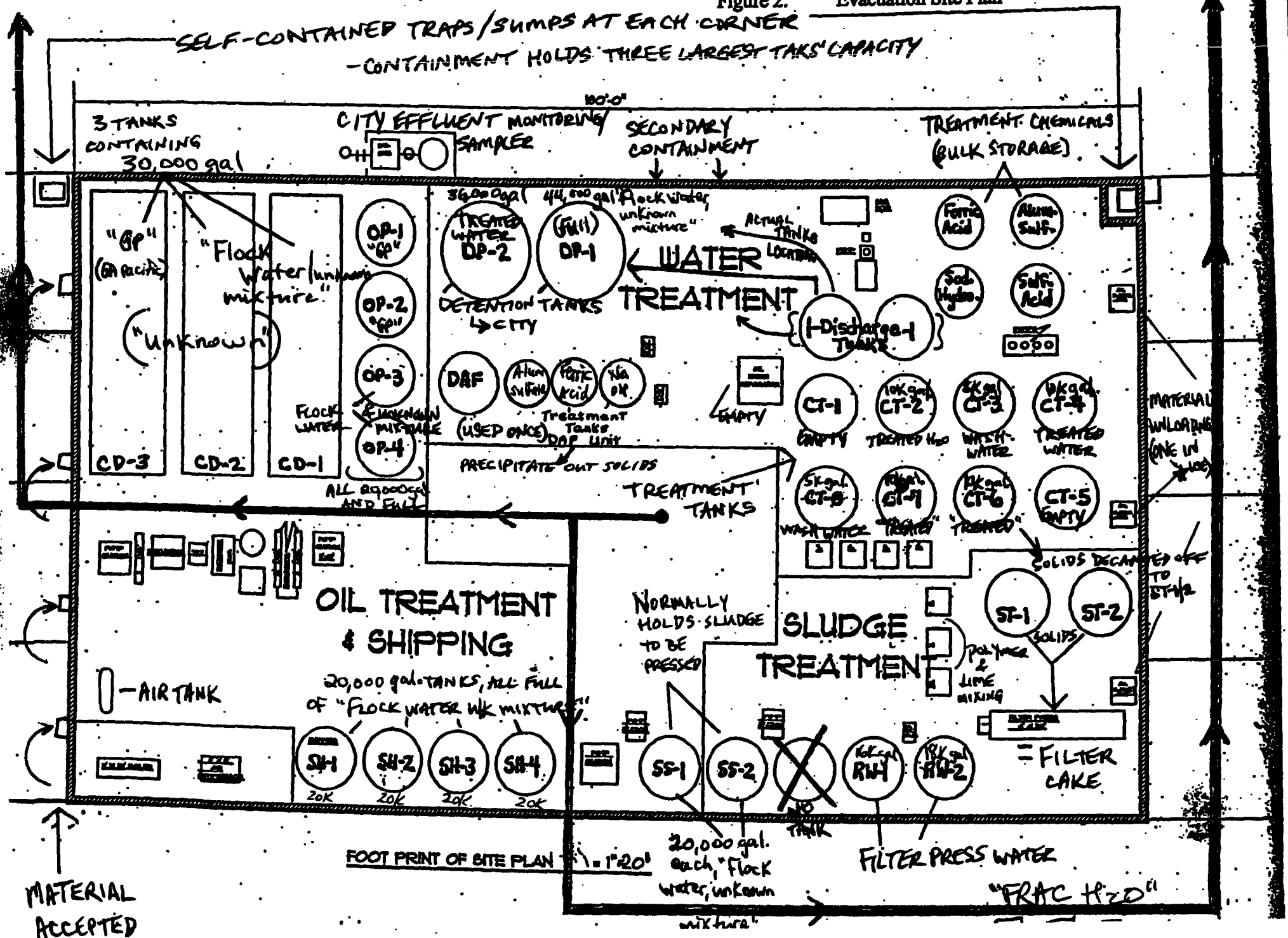
10. Filter press that drops semi-solid material into the roll-off container.



11. Inside the roll-off container that receives filter press sludge. According to Mr. DeMarco, there is some liquid that is released to the container. The landfill requires the filter sludge to be as dry as possible, so BCX adds sand to further solidify the watery sludge. The filter press was not in use during the inspection. The empty drums seen in this photo were going to the landfill for disposal as solid waste according to Mr. DeMarco.

Figure 2. Evacuation Site Plan

SOURCE:



3/12/04

APR 6 2004

SS 1	20,000	Flock water uk mixt
SS 2	20,000	Flock water uk mixtu
RW 1	16,000	Filter press water
RW 2	18,000	Filter press water
SH 1	20,000	Flock water u/k mixture
SH 2	20,000	Flock water u/k mixtur
SH 3	20,000	Flock water u/k mixtur
SH 4	20,000	Flock water u/k mixture
CD 1	30,000	Flock water u/k mixture
CD 2	30,000	Flock water u/k mixture
CD 3	30,000	GP
OP 1	20,000	GP
OP 2	20,000	GP
OP 3	20,000	Flock water u/k mixture
OP 4	20,000	Flock water u/k mixture
DP 1	44,000	Flock water u/k mixture
DP 2	36,000	Treated water

CT 1	empty	
CT 2	10,000	Treated water
CT 3	8,000	washwater
CT 4	10,000	Treated water
CT 5	empty	
CT 6	10,000	Treated
CT 7	10,000	Trea
CT 8	5,000	wash wa

Frac A 18,000 GP
Frac B 18,000 GP
Frac C 18,000 GP
Frac D 22,000 Hawaiian Tropic / Colom

APR 6 2004

Totals OF ALL water

Treated: 76,000 - 80,000

Filter press water 34,000

C-A Pacific: 124,000

wash water: 13,000

Flock water: 264,000

Hawaiian T/colomer 22,000

Reference 22

Georgia Department of Natural Resource
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-90
Lonice C. Barrett, Commissior
Environmental Protection Divisi
Carol A. Couch, Ph.D., Direc
PHONE 404/657-8831 FAX 404/463-66

April 23, 2004

Mr. Phil DeMarco
Plant Manager
BCX, Incorporated
901 Frances Street
Waycross, GA 31501

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SUBJECT: **NOTICE OF VIOLATION**
Used Oil Processor Inspection
BCX Waycross Facility (BCX, Incorporated)
Waycross, Ware County
EPA I.D. Number GAR000030007

Dear Mr. DeMarco:

On April 6, 2004, John Short of the Generator Compliance Program conducted a compliance evaluation inspection of the referenced facility. BCX, Inc. was evaluated for used oil processing activities because the facility notified as a Used Oil Processor in 2001.

BCX, Inc. was observed storing unidentified waste on-site in aboveground storage tanks. Because BCX, Inc. cannot discharge treated industrial wastewater to the City of Waycross POTW, tanks holding material became waste accumulation tanks and are therefore subject to hazardous waste requirements since BCX, Inc. has not determined if wastes stored in these tanks are hazardous or non-hazardous wastes.

Hazardous waste generators in Georgia are required to comply with Georgia's Hazardous Waste Management Act (O.C.G.A. 12-8-60 et. seq.), the Georgia Rules of Hazardous Waste Management (Chapter 391-3-11), and the Federal regulations adopted by reference. The following violation of Title 40 of the Code of Federal Regulations (CFR), Part 262 was observed during the inspection:

> 40 CFR Section 262.11, "Hazardous Waste Determination" – because the owner/operator failed to determine the contents of 27 tanks located in the facility's aboveground tank farm and in the four flocculation box tanks.

This violation should be corrected immediately. Please notify the Environmental Protection Division (EPD) how BCX, Inc. plans to handle the material in each container for disposal.

BCX, Incorporated
An Environmental / Energy Company

June 3, 2004

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Dr., SE
Suite 1066
East Atlanta, GA 30334-9000

Freddie L. Dunn, Jr.
Unit Coordinator
Hazardous Waste Compliance Unit

Dear Mr. Dunn:

In response to the Notice of Violation dated April 23, 2004, the materials contained on-site at the BCX Wastewater Treatment Facility, 3 Folks Street, Waycross, GA. are non-hazardous. Mr. Scott Murphy, who was formerly our Chief Chemist and Compliance Officer during the period that the existing material was delivered, processed, and treated, and was in charge of the identity and profiling of this material.

Mr. Murphy would have in-depth knowledge about the remaining product in the twenty-seven (27) tanks and I respectfully ask that you contact him as he would be better able to identify and explain the chemical makeup of this non-hazardous material.

Mr. Murphy is currently employed by ESG Engineering and is in charge of rectifying the problems at the City of Waycross Treatment Plant. Mr. Murphy may be reached at the following numbers: Cell (912) 218-2476, Office (912) 285-9621, Home (912) 287-2995.

If I can be of further assistance please do not hesitate to contact me.

Sincerely,

Ferrell J. Carden
President

FJC/st

RECEIVED
JUN 3 2004
GENERATOR COMPLIANCE PROGRAM
HAZARDOUS WASTE MANAGEMENT BRANCH

1889 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356 3391 • FAX (904)356.0885
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)285.0402 • FAX (912)338.0802

Reference 23

BCX, Incorporated
An Environmental / Energy Company

CST
Wave

June 2, 2004

RECEIVED
JUN 07 2004
ENVIRONMENTAL PROTECTION DIV
COASTAL DISTRICT
BRUNSWICK OFFICE

Environmental Protection Division
Carolyn Hill
4220 International Parkway
Suite 101
Atlanta, GA 30354

Dear Mrs. Hill;

In reference to our telephone conversation of June 2, 2004, regarding the accidental discharge of non-hazardous waste water I provide you with the following information, as you requested. The discharge of approximately 4-5,000 gallons on non-hazardous waste water occurred at #3 Folks Street, Waycross, Georgia 31501. The cause appeared to be from a broken gasket from the front manhole cover of a frac-tank. The frac-tank number is F33RR and is a tank that was rented by our company, BCX, Inc.

The manhole cover was tightened and the product remaining in the tank is below the manhole cover and there appears to be no further danger of discharge from this tank.

I will report any other findings regarding this subject area. Please do not hesitate to give me a call.

Sincerely,

Ferrell J. Carden
President

FJC/st

859 EAST ADAMS ST. • JACKSONVILLE, FL 32202 • TEL. (904)356.3391 • FAX (904)356.0861
901 FRANCIS ST. • WAYCROSS, GA 31501 • TEL. (912)338.0402 • FAX (912)338.0902

Reference 24

Georgia Department of Natural Resourc
2 Martin Luther King Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334
Lonice C. Barrett, Commi
Environmental Protection D
Carol A. Couch, Ph.D., D
Office: 404/657-8831 FAX: 404/46

MEMORANDUM

DATE: July 29, 2004

TO: Freddie L. Dunn, Jr. FLD

FROM: Valincia Darby VD

SUBJECT: **Sampling Results**
BCX, Incorporated
Waycross, Ware County
GAR00003007

BCX, Inc. is a solid waste treatment facility that also notified as a used oil facility on December 11, 2001. The facility is located in downtown Waycross at the intersection of Francis Street and Folks Street. On June 14th Darrell Crosby, Manager of the EPD's Coastal District, informed the Generator Compliance Program of the June 2, 2004, release of 4,000-5,000 gallons of unknown liquid waste from a 10,000-gallon portable tank. The tank was leased by BCX for extra storage capacity. The Generator Compliance Program responded by initiating an investigation of the facility on June 23, 2004. This investigation consisted of the sampling of two locations. First, the background sample was obtained from a condensed, vegetated area upgradient from the release. The other sample was obtained from the spill site approximately two feet from the tank that had the release. The samples were placed on ice and transported to the EPD Laboratory on June 24th in order to be tested for metals, volatiles and semivolatiles.

The laboratory results indicate that the soil sample that was obtained from the area of the release contained 13 mg/kg of barium, but this was not enough to warrant a TCLP analysis. Analysis of the background sample detected levels of arsenic at 12 mg/kg, barium at 44 mg/kg, cadmium at 1.0 mg/kg, chromium at 15 mg/kg and lead at 110 mg/kg. Notification is required under the Hazardous Sites Response Act (HSRA) since the soil concentration for lead exceeded the 75 mg/kg HSRA trigger. Because of the amount of lead in the sample, TCLP extraction was warranted. The sample did not fail for TCLP, but barium was detected at .24 mg/L. The regulatory level for barium is 100 mg/L. The analytical results from the EPD Laboratory are attached.

Attachments: Chart Summarizing Laboratory Results
Aerial Photograph of sample locations
Chain of Custody
Laboratory Sample Request
Laboratory Results (2)

c: Renée Hudson Goodley
File: BCX, Incorporated, Waycross
S:\rdrive\Darby\fy04\bcx sampling results memo1.doc

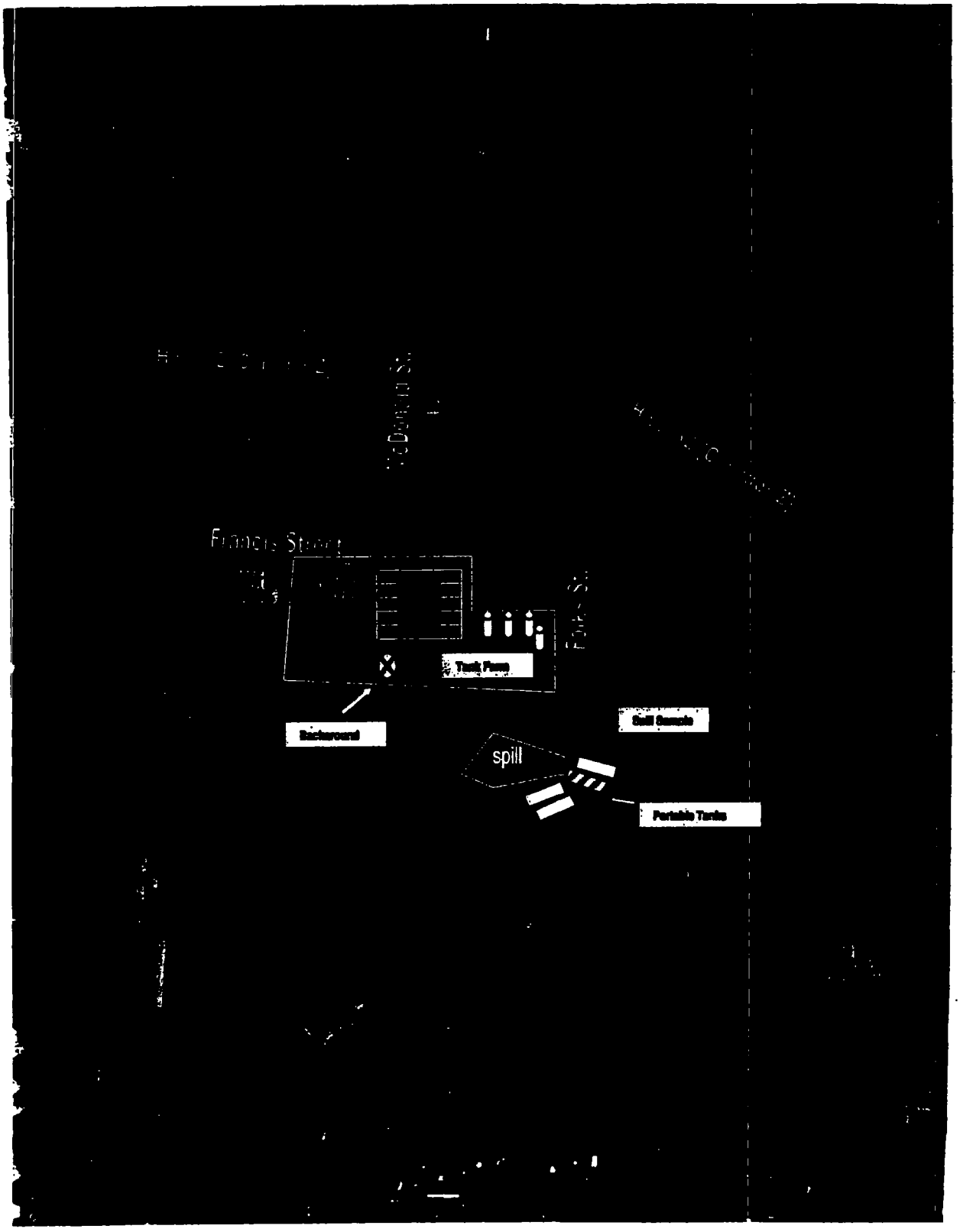
BCX
LABORATORY RESULTS

LABORATORY NUMBER	SAMPLE TYPE	PARAMETER ANALYZED	ANALYTICAL RESULTS	TCLP REGULATORY LIMIT	HSRA REGULATORY LIMIT
9773	Background soil sample	TCLP Metals Volatiles Semi-Volatiles	Arsenic – 12 mg/kg Barium – 44 mg/kg Cadmium – 1.0 mg/kg Chromium – 15 mg/kg Lead – 110 mg/kg	5.0 mg/L 100.0 mg/L 1.0 mg/L 5.0 mg/L 5.0 mg/L	20 mg/kg 1000 mg/kg 2.0 mg/kg 100 mg/kg 75 mg/kg
9774	Soil sample of waste	TCLP Metals Volatiles Semi-Volatiles	Barium – 13 mg/kg	100.0 mg/L	1000.0 mg/kg

1. The analytical results are totals presented in mg/kg.
2. The TCLP regulatory limits are presented in mg/L.
3. The HSRA regulatory limits are presented in mg/kg.
4. Lead exceeded the 75 mg/kg HSRA regulatory limit which trigger notification under the Hazardous Sites Response Act.

S:\rdrive\darby\fy2004\BCX lab results.doc

BCX, Incorporated
Waycross, Ware County
GAR000030007



Legend
⊗ Background Sample
Spill Tank

Arial photograph taken from Terra-server.Microsoft.com

HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)
REQUEST FOR LABORATORY ANALYSIS

Facility Name/Location: BCX Waycross Facility, Waycross Georgia

Sample Collected By/Phone: Valincia Darby, Freddie Dunn (404) 657-8824

Collection Date: 6/23/04 **LAB No.** _____

Date Submitted To Lab: 9773 6/24/04

HWMB LOG NUMBER: _____

File a separate Request Sheet for each sample point)

Analysis Needed By: Routine ✓ Other (specify) _____

Sample Description (check one)

Waste		Soil/Sediment	✓	Sludge	
Ground Water		Surface Water		Drinking Water Well	

Concentration of Organics Requested (estimated): High ___ Low ___ Other (e.g., rinse blank - specify) _____

Describe Sample Including Source and Known Properties (e.g. p

Sample ID AE53881
Location: HWMB
Description: BCX WAYCROSS FACILITY AEW9773
Collector: DUNN/DARBY
Site:

Applicable Hazardous Waste Codes (if known) _____

Special Precautions: _____

RECEIVED
JUL 20 2004
GENERATOR COMPLIANCE PROGRAM
HAZARDOUS WASTE MANAGEMENT BRANCH

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP [illegible])

1. TOTAL ORGANICS

Semi-Volatiles (Acid & Base/Neutral)	✓	
Volatiles	✓	
Pesticides		
Herbicides		
Organophosphorus Pesticides		
PCB		1 4 OZ. JARS
BETX		6 8 OZ. JARS
Total Petroleum Hydrocarbon		2 16 OZ. JARS

2. TOTAL METALS

ICP Metals Scan (Ag,As,Ba,Cd,Cr,Ni,Pb,Se)	✓
Mercury	
Metals Special Requests:	

Organics Special Requests: 4 Encores

3. TCLP ORGANICS *If warranted*

Volatiles	✓	Pesticides	
Semi-Volatiles (Acid & Base/Neutral)	✓	Herbicides	

Additional Specific Organics for TCLP: _____

4. TCLP METALS ANALYSIS *If warranted*

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se)	✓	Additional Metals for TCLP:
Mercury	✓	

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): _____

TNB

Reviewed By: (HWMB): F.J. Dunn Date: 6/18/04 Reviewed By (EPD Lab):
Approved By:(HWMB): [illegible] Date: 6-18-04 Date (EPD Lab):

Preservative Confirmed
Ph <2 _____ >12 _____
Temp 6.0

S:/rdrive/forms/Request for Lab Analysis.doc

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

455 14th Street NW, Atlanta, GA 30318-7900
(404) 206-5269

LABORATORY REPORT

TO: Georgia Env Protection Divison
Hazardous Waste Mgmt Branch
205 Butler St SE Suite 1154E
Atlanta, GA 30334

Date Collected:	6/23/2004
Time Collected:	12:57
Sample Collector:	DUNN/DARBY
Chlorination:	
Sample Type:	
Received By:	TNB
Date Received:	6/24/2004
Time Received:	2:44 PM
Project:	HW
Reporting Date:	7/16/2004
Received Temperature:	0.0 ° C

Sample ID:	AE53881
Facility Name:	Bcx Waycross Facility /Hw9773
Site ID:	HWMB
Location ID:	
Location Descr:	HW9773 BACKGROUND

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	QUALIFIER	UNITS	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
8260B in Soil QC Batch 68932										
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260B	45		ug/Kg	5.8	KDD	6/28/2004	*41 to 63.5*
1,2-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260B	44		ug/Kg	5.8	KDD	6/28/2004	*36 to 62.5*
To[illegible]e-d8(Surrogate QC Std.)			EPA 8260B	47		ug/Kg	5.8	KDD	6/28/2004	*34.5 to 56.5*
[illegible]luorobenzene(Surrogate QC Std.)			EPA 8260B	43		ug/Kg	5.8	KDD	6/28/2004	*35.5 to 58.5*
[illegible]orodifluoromethane	34668		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Chloromethane	34418		EPA 8260B	Not Detected		ug/Kg	12	KDD	6/28/2004	
Vinyl chloride	39175		EPA 8260B	Not Detected		ug/Kg	2.3	KDD	6/28/2004	
Bromomethane	34413		EPA 8260B	Not Detected		ug/Kg	12	KDD	6/28/2004	
Chloroethane	34311		EPA 8260B	Not Detected		ug/Kg	12	KDD	6/28/2004	
Trichlorofluoromethane	34488		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
1,1-Dichloroethene	34501		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Acetone	81552		EPA 8260B	Not Detected		ug/Kg	120	KDD	6/28/2004	
1,1,2-Trichlorotrifluoroethane	81611		EPA 8260B	Not Detected		ug/Kg	12	KDD	6/28/2004	
Iodomethane	77424		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Carbon disulfide	77041		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Methyl acetate	77032		EPA 8260B	Not Detected		ug/Kg	12	KDD	6/28/2004	
Methylene chloride	34423		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
trans-1,2-Dichloroethene	34546		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Methyl tert-butyl ether	46491		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
1,1-Dichloroethane	34496		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
Vinyl acetate	77057		EPA 8260B	Not Detected		ug/Kg	58	KDD	6/28/2004	
2,2-Dichloropropane	77170		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
cis-1,2-Dichloroethene	77093		EPA 8260B	Not Detected		ug/Kg	5.8	KDD	6/28/2004	
2-Butanone	81595		EPA 8260B	Not Detected		ug/Kg	120	KDD	6/28/2004	

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GC Mass Spec:	Steve Bryan	404-206-5260
Microbiology:	Viola Reynolds	404-206-5210

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Br[illegible]chloromethane	77297		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
[illegible]orm	32106		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,1,1-Trichloroethane	34506		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Cyclohexane	81570		EPA 8260B	Not Detected	ug/Kg	12	KDD	6/28/2004	
Carbon tetrachloride	32102		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,1-Dichloropropene	77168		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Benzene	34030		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2-Dichloroethane	32103		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Trichloroethene	39180		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Methylcyclohexane			EPA 8260B	Not Detected	ug/Kg	12	KDD	6/28/2004	
1,2-Dichloropropane	34541		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Dibromomethane	77596		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Bromodichloromethane	32101		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
cis-1,3-Dichloropropene	34704		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
4-Methyl-2-pentanone	81596		EPA 8260B	Not Detected	ug/Kg	58	KDD	6/28/2004	
Toluene	34010		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
trans-1,3-Dichloropropene	34699		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,1,2-Trichloroethane	34511		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Tetrachloroethene	34475		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,3-Dichloropropane	77173		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
2-Hexanone	77103		EPA 8260B	Not Detected	ug/Kg	58	KDD	6/28/2004	
Dibromochloromethane	32105		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2-Dibromoethane	77651		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Chlorobenzene	34301		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,1,1,2-Tetrachloroethane	77562		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Ethylbenzene	34371		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
[illegible]lene	77135		EPA 8260B	Not Detected	ug/Kg	12	KDD	6/28/2004	
[illegible]ne	77135		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Styrene	77128		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Bromoform	32104		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Isopropylbenzene	77223		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Bromobenzene	81555		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,1,2,2-Tetrachloroethane	34516		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2,3-Trichloropropane	77443		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
N-Propylbenzene	77224		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
2-Chlorotoluene	77275		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
4-Chlorotoluene	77277		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,3,5-Trimethylbenzene	77226		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
tert-Butylbenzene	77353		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2,4-Trimethylbenzene	77222		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
sec-Butylbenzene	77350		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,3-Dichlorobenzene	34566		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
p-Isopropyltoluene	77356		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,4-Dichlorobenzene	34571		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2-Dichlorobenzene	34536		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
n-Butylbenzene	77342		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2-Dibromo-3-chloropropane			EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	

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1,2,4-Trichlorobenzene	34551		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Hexachlorobutadiene	38702		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Naphthalene	34696		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
1,2,3-Trichlorobenzene	77613		EPA 8260B	Not Detected	ug/Kg	5.8	KDD	6/28/2004	
Total Hydrocarbons			EPA 8260B	170 TIE	ug/Kg		KDD	6/28/2004	
Total Aldehydes			EPA 8260B	130 TIE	ug/Kg		KDD	6/28/2004	
8270 Semi-Vol in SOIL QC Batch 68933									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	88	ug/kg (dw)	0.00	PS	7/1/2004	*30 to 108*
Phenol-d5(Surrogate QC Std.)			EPA 8270C	94	ug/kg (dw)	0.00	PS	7/1/2004	*43 to 111*
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	89	ug/kg (dw)	0.00	PS	7/1/2004	*54 to 112*
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	92	ug/kg (dw)	0.00	PS	7/1/2004	*57 to 120*
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	100	ug/kg (dw)	0.00	PS	7/1/2004	*20 to 130*
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS	7/1/2004	*64 to 123*
Pyridine	77045		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
n-Nitrosodimethylamine	34438		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
2-Picoline	77088		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Methylmethanesulfonate	73595		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Ethylmethanesulfonate	73571		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/1/2004	
Aniline	77089		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Phenol	34694		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
bis(2-Chloroethyl)ether	34273		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
2-Chlorophenol	34586		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
1,3-Dichlorobenzene	34566		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
1,4-Dichlorobenzene	34571		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Benzyl Alcohol	77147		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/1/2004	
1,2-Dichlorobenzene	34536		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Bis(2-Chloroisopropyl)ether	34283		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Acetophenone	81553		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
N-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Hexachloroethane	34396		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Nitrobenzene	34447		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
N-Nitrosopiperidine	73619		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/1/2004	
Isophorone	34408		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
2-Nitrophenol	34591		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
2,4-Dimethylphenol	34606		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Bis(2-Chloroethoxy)methane	34278		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Benzoic Acid	77247		EPA 8270C	Not Detected	ug/kg (dw)	5600	PS	7/1/2004	
2,4-Dichlorophenol	34601		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
1,2,4-Trichlorobenzene	34551		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
aa-Dimethyl-Phenethylamine	73564		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Naphthalene	34696		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
4-Chloroaniline	73529		EPA 8270C	Not Detected	ug/kg (dw)	2200	PS	7/1/2004	
2,6-Dichlorophenol	77541		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	
Hexachlorobutadiene	38702		EPA 8270C	Not Detected	ug/kg (dw)	1100	PS	7/1/2004	

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Ca[illegible]'actam			EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
[illegible] so-di-n-butylamine	73609		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4-Chloro-3-Methylphenol	34452		EPA 8270C	Not Detected		ug/kg (dw)	2200	PS	7/1/2004	
2-Methylnaphthalene	77416		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
1,2,4,5-Tetrachlorobenzene	77734		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Hexachlorocyclopentadiene	34386		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,4,6-Trichlorophenol	34621		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,4,5-Trichlorophenol	77687		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
1,1'-Biphenyl			EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2-Chloronaphthalene	34581		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
1-Chloronaphthalene			EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2-Nitroaniline	78142		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
Dimethylphthalate	34341		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Acenaphthylene	34200		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,6-Dinitrotoluene	34626		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
3-Nitroaniline	78300		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
Acenaphthene	34205		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,4-Dinitrophenol	34616		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
4-Nitrophenol	34646		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
Dibenzofuran	81302		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Pentachlorobenzene	77793		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,4-Dinitrotoluene	34611		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
1-Naphthylamine	73600		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2-Naphthylamine	73601		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Diethylphthalate	34336		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
[illegible] e	34381		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4[illegible]rophenyl-Phenylether	34641		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4-Nitroaniline	30342		EPA 8270C	Not Detected		ug/kg (dw)	2200	PS	7/1/2004	
Diphenylamine	77579		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4,6-Dinitro-2-Methylphenol	34657		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
N-Nitrosodiphenylamine	34433		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
1,2-Diphenylhydrazine	34346		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4-Bromophenyl-phenylether	34636		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Phenacetin	62018		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Hexachlorobenzene	39700		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Atrazine	39033		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
4-Aminobiphenyl	77581		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Pentachlorophenol	39032		EPA 8270C	Not Detected		ug/kg (dw)	5600	PS	7/1/2004	
Pronamide	39080		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Pentachloronitrobenzene	81316		EPA 8270C	Not Detected		ug/kg (dw)	2200	PS	7/1/2004	
Phenanthrene	34461		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Anthracene	34220		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Carbazole	82618		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Di-n-Butylphthalate	39110		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Fluoranthene	34376		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	
Benzidine	39120		EPA 8270C	Not Detected		ug/kg (dw)	1100	PS	7/1/2004	

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Pyrene	34469		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
[illegible]ethylaminoazobenzene	73558		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Butylbenzylphthalate	34292		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Benzo[a]anthracene	34526		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
3,3'-Dichlorobenzidine	34631		EPA 8270C	Not Detected	ug/kg (dw)		2200	PS	7/1/2004	
Chyrsene	34320		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Bis(2-Ethylhexyl)phthalate	39100		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Di-n-octylphthalate	34596		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Benzo[b]fluoranthene	34230		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Benzo[k]fluoranthene	34242		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
7,12-Dimethylbenz(a)anthracen	73559		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Benzo[a]pyrene	34247		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
3-Methylcholanthrene	73591		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Indeno[1,2,3-cd]pyrene	34403		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Dibenz[a,h]anthracene	34556		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Benzo[g,h,i]perylene	34621		EPA 8270C	Not Detected	ug/kg (dw)	J	1100	PS	7/1/2004	
Alpha-BHC	39337		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Gamma-BHC	39340		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Beta-BHC	39338		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Delta-BHC	34259		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Heptachlor	39410		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Aldrin	39330		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Heptachlor Epoxide	39420		EPA 8270C	Not Detected	ug/kg (dw)		2800	PS	7/1/2004	
Endosulfan 1	34361		EPA 8270C	Not Detected	ug/kg (dw)		5600	PS	7/1/2004	
Dieldrin	39380		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
[illegible]DE	39320		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
[illegible]	39390		EPA 8270C	Not Detected	ug/kg (dw)		2700	PS	7/1/2004	
Endosulfan 2	34356		EPA 8270C	Not Detected	ug/kg (dw)		5600	PS	7/1/2004	
p,p'-DDD	39310		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Endrin Aldehyde	34366		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Endosulfan Sulfate	34351		EPA 8270C	Not Detected	ug/kg (dw)		2800	PS	7/1/2004	
p,p'-DDT	39300		EPA 8270C	Not Detected	ug/kg (dw)		1100	PS	7/1/2004	
Hexadecanoic acid			EPA 8270C	1300 TIE	ug/kg (dw)			PS	7/1/2004	
Octadecanoic acid			EPA 8270C	4300 TIE	ug/kg (dw)			PS	7/1/2004	
Dibenzylbutyrolactone			EPA 8270C	1300 TIE	ug/kg (dw)			PS	7/1/2004	
Total Hydrocarbons			EPA 8270C	4400 TIE	ug/kg (dw)			PS	7/1/2004	
QC Batch 68952										
Semi-Volatile TCLP Warranted?			EPA 1311	No	Yes/No		REG.LEV.	PS	7/2/2004	
QC Batch 68954										
Volatile TCLP Warranted?			EPA 1311	No	Yes/No		REG.LEV.	KDD	7/1/2004	
ICP Metals HW in TCLP Extracts QC Batch 69245										
Silver	01077		EPA 6010B	Not Detected	mg/L		0.01	LA	7/14/2004	5
Arsenic	01002		EPA 6010B	Not Detected	mg/L		0.08	LA	7/14/2004	5
Barium	01007		EPA 6010B	0.24	mg/L		0.01	LA	7/14/2004	100
Cadmium	01027		EPA 6010B	Not Detected	mg/L		0.01	LA	7/14/2004	1
Chromium	01034		EPA 6010B	Not Detected	mg/L		0.02	LA	7/14/2004	5

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LSPC: result less than lower specification
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Organics:	Danny Reed	404-206-5252
GC Mass Spec:	Steve Bryan	404-206-5260
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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	QUALIFIER	UNITS	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Le[illegible]	01051		EPA 6010B	Not Detected		mg/L	0.09	LA	7/14/2004	5
S[illegible]m	01147		EPA 6010B	Not Detected		mg/L	0.19	LA	7/14/2004	1
ICP Metals HW in Solids QC Batch 68919										
Silver	01078		EPA 6010B	Not Detected		mg/kg (dw)	10	LA	7/7/2004	
Arsenic	01003		EPA 6010B	12		mg/kg (dw)	8.0	LA	7/7/2004	
Barium	01008		EPA 6010B	44		mg/kg (dw)	1.0	LA	7/7/2004	
Cadmium	01028		EPA 6010B	1.0		mg/kg (dw)	1.0	LA	7/7/2004	
Chromium	01029		EPA 6010B	15		mg/kg (dw)	2.0	LA	7/7/2004	
Lead	01052		EPA 6010B	110		mg/kg (dw)	9.0	LA	7/7/2004	
Selenium	01148		EPA 6010B	Not Detected		mg/kg (dw)	19	LA	7/7/2004	
QC Batch 68953										
Metals TCLP Warranted?			EPA 1311	yes		Yes/No	REG.LEV.	AGV	7/13/2004	

COMMENTS: $827CS- EPA 8270C- Sample had one internal standard compound, Perylene-d12 (41% response, limits 50-200%) with area response outside acceptable control limits. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-070204-274.

COMMENTS: ICPHS-6010B: ICP Metals - Reporting limits raised due to matrix interference.

COMMENTS: $R_ICPHS-6010B: ICP Metals - Matrix Spike had one analyte, Lead (146% recovery, limits 75-125%), with a percent recovery outside acceptable control limits due to high concentration of target analytes in sample. LCS results acceptable for all analytes. 2-070704-202

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HAZARDOUS WASTE MANAGEMENT BRANCH (HWMB)
REQUEST FOR LABORATORY ANALYSIS

Facility Name/Location: BCX Waycross Facility, Waycross Georgia

Sample Collected By/Phone: Valincia Darby, Freddie Dunn (404) 657-8831

Collection Date: 6/23/04 **LAB No.** _____

Date Submitted To Lab: 9774 6/24/04

HWMB LOG NUMBER: _____

File a separate Request Sheet for each sample point)

Analysis Needed By: Routine ✓ Other (specify) _____

Sample Description (check one)

Waste		Soil/Sediment	✓	Sludge	
Ground Water		Surface Water		Drinking Water Well	

Concentration of Organics Requested (estimated): High ___ Low ___ Other (e.g., rinse blank - specify) _____

Describe Sample Including Source and Known Properties (e.g. r[illegible]

Applicable Hazardous Waste Codes (if known) _____

Special Precautions:

Sample ID AE53883
Location: HWMB
Description: BCX WAYCROSS FACILITY /HW9774
Collector: DUNN/DARBY
Site:

ANALYSIS REQUIRED

(Note: Totals will always be run first. A TCLP will subsequently be run only if the total value indicates a positive TCLP could results)

1. TOTAL ORGANICS

Semi-Volatiles (Acid & Base/Neutral)	✓
Volatiles	✓
Pesticides	
Herbicides	
Organophosphorus Pesticides	
PCB	
BETX	
Total Petroleum Hydrocarbon	

2. TOTAL METALS

ICP Metals Scan (Ag,As,Ba,Cd,Cr,Ni,Pb,Se)	✓
Mercury	
Metals Special Requests:	

1 4 OZ JARS
6 8 OZ JARS
2 16 OZ JARS

Organics Special Requests: _____

4 Encores

3. TCLP ORGANICS *If warranted*

Volatiles	✓	Pesticides	
Semi-Volatiles (Acid & Base/Neutral)	✓	Herbicides	

Additional Specific Organics for TCLP: _____

4. TCLP METALS ANALYSIS *If warranted*

TCLP Metals (Ag,As,Ba,Cd,Cr,Ni,Pb,Se)	✓	Additional Metals for TCLP:
Mercury	✓	

5. ADDITIONAL ANALYSIS REQUESTED (see list on back): _____

Reviewed By: (HWMB): [illegible] Date: 6/18/04 Reviewed By (EPD Lab): _____
Approved By:(HWMB): [illegible] Date: 6/18/04 Date (EPD Lab): _____

Preservative Confirmed
Ph <2 _____ >12 _____
Temp 0-0

S:/rdrive/forms/Request for Lab Analysis.doc

GEORGIA DEPARTMENT OF NATURAL RESOURCES
ENVIRONMENTAL PROTECTION DIVISION

455 14th Street NW, Atlanta, GA 30318-7900
(404) 206-5269

LABORATORY REPORT

TO: Georgia Env Protection Divison Hazardous Waste Mgmt Branch 205 Butler St SE Suite 1154E Atlanta, GA 30334	Date Collected: 6/23/2004 Time Collected: 14:05 Sample Collector: DUNN/DARBY Chlorination: Sample Type:
Sample ID: AE53883 Facility Name: Bcx Waycross Facility /Hw9774 Site ID: HWMB Location ID: Location Descr: HW9774 SPILL SITE	Received By: TNB Date Received: 6/24/2004 Time Received: 2:44 PM Project: HW Reporting Date: 7/16/2004 Received Temperature: 0.0 °C

ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
8260B in Soil QC Batch 68932										
Dibromofluoromethane(Surrogate QC Std.)			EPA 8260B	45	ug/Kg		5.5	KDD	6/28/2004	41 to 63.5
1,2-Dichloroethane-d4(Surrogate QC Std.)			EPA 8260B	45	ug/Kg		5.5	KDD	6/28/2004	36 to 62.5
Toluene-d8(Surrogate QC Std.)			EPA 8260B	45	ug/Kg		5.5	KDD	6/28/2004	34.5 to 56.5
Bromofluorobenzene(Surrogate QC Std.)			EPA 8260B	44	ug/Kg		5.5	KDD	6/28/2004	35.5 to 58.5
Bromodifluoromethane	34668		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Chloromethane	34418		EPA 8260B	Not Detected	ug/Kg		11	KDD	6/28/2004	
Vinyl chloride	39175		EPA 8260B	Not Detected	ug/Kg		2.2	KDD	6/28/2004	
Bromomethane	34413		EPA 8260B	Not Detected	ug/Kg		11	KDD	6/28/2004	
Chloroethane	34311		EPA 8260B	Not Detected	ug/Kg		11	KDD	6/28/2004	
Trichlorofluoromethane	34488		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
1,1-Dichloroethene	34501		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Acetone	81552		EPA 8260B	Not Detected	ug/Kg		110	KDD	6/28/2004	
1,1,2-Trichlorotrifluoroethane	81611		EPA 8260B	Not Detected	ug/Kg		11	KDD	6/28/2004	
Iodomethane	77424		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Carbon disulfide	77041		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Methyl acetate	77032		EPA 8260B	Not Detected	ug/Kg		11	KDD	6/28/2004	
Methylene chloride	34423		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
trans-1,2-Dichloroethene	34546		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Methyl tert-butyl ether	46491		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
1,1-Dichloroethane	34496		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
Vinyl acetate	77057		EPA 8260B	Not Detected	ug/Kg		55	KDD	6/28/2004	
2,2-Dichloropropane	77170		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
cis-1,2-Dichloroethene	77093		EPA 8260B	Not Detected	ug/Kg		5.5	KDD	6/28/2004	
2-Butanone	81595		EPA 8260B	Not Detected	ug/Kg		110	KDD	6/28/2004	

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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	QUALIFIER	UNITS	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Br[illegible]chloromethane	77297		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
[illegible]orm	32106		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,[illegible]-Trichloroethane	34506		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Cyclohexane	81570		EPA 8260B	Not Detected		ug/Kg	11	KDD	6/28/2004	
Carbon tetrachloride	32102		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,1-Dichloropropene	77168		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Benzene	34030		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2-Dichloroethane	32103		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Trichloroethene	39180		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Methylcyclohexane			EPA 8260B	Not Detected		ug/Kg	11	KDD	6/28/2004	
1,2-Dichloropropane	34541		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Dibromomethane	77596		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Bromodichloromethane	32101		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
cis-1,3-Dichloropropene	34704		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
4-Methyl-2-pentanone	81596		EPA 8260B	Not Detected		ug/Kg	55	KDD	6/28/2004	
Toluene	34010		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
trans-1,3-Dichloropropene	34699		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,1,2-Trichloroethane	34511		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Tetrachloroethene	34475		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,3-Dichloropropane	77173		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
2-Hexanone	77103		EPA 8260B	Not Detected		ug/Kg	55	KDD	6/28/2004	
Dibromochloromethane	32105		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2-Dibromoethane	77651		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Chlorobenzene	34301		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,1,1,2-Tetrachloroethane	77562		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Ethylbenzene	34371		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
[illegible]lene	77135		EPA 8260B	Not Detected		ug/Kg	11	KDD	6/28/2004	
[illegible]ne	77135		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Styrene	77128		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Bromoform	32104		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Isopropylbenzene	77223		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
Bromobenzene	81555		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,1,2,2-Tetrachloroethane	34516		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2,3-Trichloropropane	77443		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
N-Propylbenzene	77224		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
2-Chlorotoluene	77275		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
4-Chlorotoluene	77277		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,3,5-Trimethylbenzene	77226		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
tert-Butylbenzene	77353		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2,4-Trimethylbenzene	77222		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
sec-Butylbenzene	77350		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,3-Dichlorobenzene	34566		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
p-Isopropyltoluene	77356		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,4-Dichlorobenzene	34571		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2-Dichlorobenzene	34536		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
n-Butylbenzene	77342		EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	
1,2-Dibromo-3-chloropropane			EPA 8260B	Not Detected		ug/Kg	5.5	KDD	6/28/2004	

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1,2,4-Trichlorobenzene	34551		EPA 8260B	Not Detected	ug/Kg	5.5	KDD	6/28/2004	
Hexachlorobutadiene	38702		EPA 8260B	Not Detected	ug/Kg	5.5	KDD	6/28/2004	
Naphthalene	34696		EPA 8260B	Not Detected	ug/Kg	5.5	KDD	6/28/2004	
1,2,3-Trichlorobenzene	77613		EPA 8260B	Not Detected	ug/Kg	5.5	KDD	6/28/2004	
8270 Semi-Vol in SOIL QC Batch 68933									
2-Fluorophenol(Surrogate QC Std.)			EPA 8270C	85	ug/kg (dw)	0.00	PS	7/1/2004	*30 to 108*
Phenol-d5(Surrogate QC Std.)			EPA 8270C	91	ug/kg (dw)	0.00	PS	7/1/2004	*43 to 111*
Nitrobenzene-d5(Surrogate QC Std.)			EPA 8270C	85	ug/kg (dw)	0.00	PS	7/1/2004	*54 to 112*
2-Fluorobiphenyl(Surrogate QC Std.)			EPA 8270C	91	ug/kg (dw)	0.00	PS	7/1/2004	*57 to 120*
2,4,6-Tribromophenol(Surrogate QC Std.)			EPA 8270C	110	ug/kg (dw)	0.00	PS	7/1/2004	*20 to 130*
Terphenyl-d14(Surrogate QC Std.)			EPA 8270C	120	ug/kg (dw)	0.00	PS	7/1/2004	*64 to 123*
Pyridine	77045		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
n-Nitrosodimethylamine	34438		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
2-Picoline	77088		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Methylmethanesulfonate	73595		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Ethylmethanesulfonate	73571		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/1/2004	
Aniline	77089		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Benzaldehyde			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Phenol	34694		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
bis(2-Chloroethyl)ether	34273		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
2-Chlorophenol	34586		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
1,3-Dichlorobenzene	34566		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
1,4-Dichlorobenzene	34571		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Benzyl Alcohol	77147		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/1/2004	
1,2-Dichlorobenzene	34536		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
2-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Bis(2-chloroisopropyl)ether	34283		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Acetophenone	81553		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
4-Methylphenol			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
N-Nitroso-di-n-propylamine	34428		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Hexachloroethane	34396		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Nitrobenzene	34447		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
N-Nitrosopiperidine	73619		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/1/2004	
Isophorone	34408		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
2-Nitrophenol	34591		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
2,4-Dimethylphenol	34606		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Bis(2-Chloroethoxy)methane	34278		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Benzoic Acid	77247		EPA 8270C	Not Detected	ug/kg (dw)	6600	PS	7/1/2004	
2,4-Dichlorophenol	34601		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
1,2,4-Trichlorobenzene	34551		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
aa-Dimethyl-Phenethylamine	73564		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Naphthalene	34696		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
4-Chloroaniline	73529		EPA 8270C	Not Detected	ug/kg (dw)	2600	PS	7/1/2004	
2,6-Dichlorophenol	77541		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Hexachlorobutadiene	38702		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
Caprolactam			EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	
N-Nitroso-di-n-butylamine	73609		EPA 8270C	Not Detected	ug/kg (dw)	1300	PS	7/1/2004	

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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
4-Chloro-3-Methylphenol	34452		EPA 8270C	Not Detected	ug/kg (dw)		2600	PS	7/1/2004	
[illegible]ylnaphthalene	77416		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
1,2,4,5-Tetrachlorobenzene	77734		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Hexachlorocyclopentadiene	34386		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,4,6-Trichlorophenol	34621		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,4,5-Trichlorophenol	77687		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
1,1'-Biphenyl			EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2-Chloronaphthalene	34581		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
1-Chloronaphthalene			EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2-Nitroaniline	78142		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
Dimethylphthalate	34341		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Acenaphthylene	34200		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,6-Dinitrotoluene	34626		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
3-Nitroaniline	78300		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
Acenaphthene	34205		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,4-Dinitrophenol	34616		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
4-Nitrophenol	34646		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
Dibenzofuran	81302		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Pentachlorobenzene	77793		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,4-Dinitrotoluene	34611		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
1-Naphthylamine	73600		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2-Naphthylamine	73601		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
2,3,4,6-Tetrachlorophenol			EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Diethylphthalate	34336		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Fluorene	34381		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
4-Chlorophenyl-Phenylether	34641		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
[illegible]aniline	30342		EPA 8270C	Not Detected	ug/kg (dw)		2600	PS	7/1/2004	
[illegible]ylamine	77579		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
4,6-Dinitro-2-Methylphenol	34657		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
N-Nitrosodiphenylamine	34433		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
1,2-Diphenylhydrazine	34346		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
4-Bromophenyl-phenylether	34636		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Phenacetin	62018		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Hexachlorobenzene	39700		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Atrazine	39033		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
4-Aminobiphenyl	77581		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Pentachlorophenol	39032		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
Pronamide	39080		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Pentachloronitrobenzene	81316		EPA 8270C	Not Detected	ug/kg (dw)		2600	PS	7/1/2004	
Phenanthrene	34461		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Anthracene	34220		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Carbazole	82618		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Di-n-Butylphthalate	39110		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Fluoranthene	34376		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Benzidine	39120		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Pyrene	34469		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
p-Dimethylaminoazobenzene	73558		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	

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ug/g: micrograms/gram
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[illegible] parts per billion
[illegible]L: organisms/liter

<: less than
MCL: Maximum Contaminant Level
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Laboratory Contacts:

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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER	RL	ANALYST	ANALYSIS DATE	MCL or QC Range
Bu[illegible]nzylphthalate	34292		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
B[illegible]a]anthracene	34526		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
3[illegible]ichlorobenzidine	34631		EPA 8270C	Not Detected	ug/kg (dw)	J	2600	PS	7/1/2004	
Chyrsene	34320		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Bis(2-Ethylhexyl)phthalate	39100		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Di-n-octylphthalate	34596		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Benzo[b]fluoranthene	34230		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Benzo[k]fluoranthene	34242		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
7,12-Dimethylbenz(a)anthracen	73559		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Benzo[a]pyrene	34247		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
3-Methylcholanthrene	73591		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Dibenz(a,j)acridine			EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Indeno[1,2,3-cd]pyrene	34403		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Dibenz[a,h]anthracene	34556		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Benzo[g,h,i]perylene	34621		EPA 8270C	Not Detected	ug/kg (dw)	J	1300	PS	7/1/2004	
Alpha-BHC	39337		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Gamma-BHC	39340		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Beta-BHC	39338		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Delta-BHC	34259		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Heptachlor	39410		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Aldrin	39330		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Heptachlor Epoxide	39420		EPA 8270C	Not Detected	ug/kg (dw)		3300	PS	7/1/2004	
Endosulfan 1	34361		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
Dieldrin	39380		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
p,p'-DDE	39320		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Endrin	39390		EPA 8270C	Not Detected	ug/kg (dw)		3200	PS	7/1/2004	
E[illegible]ulfan 2	34356		EPA 8270C	Not Detected	ug/kg (dw)		6600	PS	7/1/2004	
[illegible]DD	39310		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Endrin Aldehyde	34366		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Endosulfan Sulfate	34351		EPA 8270C	Not Detected	ug/kg (dw)		3300	PS	7/1/2004	
p,p'-DDT	39300		EPA 8270C	Not Detected	ug/kg (dw)		1300	PS	7/1/2004	
Hexadecanoic acid			EPA 8270C	2600 TIE	ug/kg (dw)			PS	7/1/2004	
Complex alcohols			EPA 8270C	25000 TIE	ug/kg (dw)			PS	7/1/2004	
(Z,Z)-9,12-Octadecadienoic acid			EPA 8270C	1600 TIE	ug/kg (dw)			PS	7/1/2004	
Total Hydrocarbons			EPA 8270C	6600 TIE	ug/kg (dw)			PS	7/1/2004	
Octadecanoic acid			EPA 8270C	1500 TIE	ug/kg (dw)			PS	7/1/2004	
QC Batch 68952										
Semi-Volatile TCLP Warranted?			EPA 1311	No	Yes/No		REG.LEV.	PS	7/2/2004	
QC Batch 68954										
Volatile TCLP Warranted?			EPA 1311	No	Yes/No		REG.LEV.	KDD	7/1/2004	
ICP Metals HW In Solids QC Batch 68919										
Silver	01078		EPA 6010B	Not Detected	mg/kg (dw)		10	LA	7/7/2004	
Arsenic	01003		EPA 6010B	Not Detected	mg/kg (dw)		80	LA	7/7/2004	
Barium	01008		EPA 6010B	13	mg/kg (dw)		10	LA	7/7/2004	
Cadmium	01028		EPA 6010B	Not Detected	mg/kg (dw)		10	LA	7/7/2004	
Chromium	01029		EPA 6010B	Not Detected	mg/kg (dw)		20	LA	7/7/2004	
Lead	01052		EPA 6010B	Not Detected	mg/kg (dw)		90	LA	7/7/2004	

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ANALYTE	PARAMETER CODE	NOTE	EPA METHOD	RESULT	UNITS	QUALIFIER RL	ANALYST	ANALYSIS DATE	MCL or QC Range
S[illegible]um	01148		EPA 6010B	Not Detected	mg/kg (dw)	190	LA	7/7/2004	
[illegible]tch 68953									
Metals TCLP Warranted?			EPA 1311	no	Yes/No	REG.LEV.	AGV	7/13/2004	

COMMENTS: *$8:27CS- EPA 8270C- Sample had two internal standard compounds, Chrysene-d12 (48% response, limits 50-200%) and Perylene-d12 (32% response, limits 50-200%) with area responses outside acceptable control limits. All associated compounds are flagged with a "J", for estimated values. LCS results were within acceptable control limits. 7-070204-274.*

COMMENTS: ICPHS-6010B: ICP Metals - Reporting limits raised due to matrix interference.

COMMENTS:

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Reference 25

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-9000
Lonice C. Barrett, Commissioner
Environmental Protection Division
Carol A. Couch, Ph.D., Director
Office: 404/657-8831 FAX: 404/463-6676

July 20, 2004

Mr. Phil DeMarco
Plant Manager
BCX, Incorporated
901 Francis Street
Waycross, Georgia 31501

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

SUBJECT: PROPOSED CONSENT ORDER
BCX, Incorporated
Waycross, Ware County
EPA Identification Number: GAR000030007

Dear Mr. DeMarco:

Please find enclosed a proposed Consent Order between the Georgia Environmental Protection Division ("EPD") and BCX, Incorporated concerning violations of Georgia's Rules of Hazardous Waste Management and Solid Waste Management. The proposed Order is based upon violations observed during inspections conducted at the facility by representatives of the Division on April 23, and June 23, 2004.

The proposed Consent Order offers an amicable disposition of EPD's allegations by complying with certain conditions and paying a monetary settlement, as specified in the proposed Order. We hope to resolve this matter by **August 20, 2004.** If you agree, please sign and date the proposed Consent Order **under the company's name** and return it to the following address by **August 20, 2004:**

Mr. Freddie L. Dunn, Jr.
2 Martin Luther King Jr. Drive, S.E., Suite 1066 East
Atlanta, Georgia 30334-9000

If you have any questions, please contact Mr. Dunn at (404) 657-8831 before **August 20, 2004.** You will be provided a copy of the Consent Order after the Director signs it. Thank you in advance for your cooperation in this matter.

Sincerely,

Jennifer R. Kaduck
Chief
Hazardous Waste Management Branch

JRK/VRD/jkl
Enclosures: (2)
c: Renée Hudson Goodley
✓File: BCX, Incorporated, Waycross
S:RDRIVE\Darby\fy04\BCX CO Letter.doc

Reference 26

LeBoeuf, Lamb, Greene & MacRae
L.L.P.

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50 NORTH LAURA STREET
SUITE 2800
JACKSONVILLE, FL 32202-3650
(904) 354-8000
FACSIMILE: (904) 353-1673

E-MAIL ADDRESS: DRICHARD@LLGM.COM
WRITER'S DIRECT DIAL: (904) 630-5342
WRITER'S DIRECT FACSIMILE: (904) 366-1560

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(AFFILIATED OFFICE)
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ALMATY
BEIJING

August 19, 2004

Mr. Freddie L. Dunn, Jr.
Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East
Atlanta, Georgia 30334-9000

Re: Proposed Consent Order
BCX, Incorporated
Waycross, Ware County
EPA Identification Number: GAR0000300007

Dear Mr. Dunn:

We are very recently in receipt of your letter and proposed Consent Order related to the BCX facility in Waycross, Georgia. BCX has not yet located appropriate local counsel to assist them. However, since we represent them with regard to federal EPA issues, they have asked that we request additional information regarding the calculation of the proposed settlement figure. Please provide your rationale and any matrix information which you have relied upon.

I am advised that the owners of the subject facility are working hard to address your concerns and look forward to resolving all outstanding issues as soon as possible. Part of that effort will include discussions with you. Please forward the requested information for review prior to BCX's further response.

Sincerely,

Daniel D. Richardson

DDR/dw

cc: BCX Inc.

RECORD OF TELEPHONE CONVERSATION
GENERATOR COMPLIANCE PROGRAM

DATE: October 26, 2004
TIME: 4:08 pm

FILE: BCX Waycross
EPA ID#: GAR000030007

SPOKE WITH: Mr. Daniel D. Richardson
TITLE: Attorney with Lewis, Longman and Walker
ADDRESS: 9428 Baymeadows Road
CITY: Jacksonville
STATE/ZIP: Florida - 32256
TELEPHONE NUMBER: (904) 737-2020

SUBJECT: BCX Consent Order

SUMMARY OF CALL: I called Mr. Richardson in response to his letter dated August 19, 2004. In this letter he was asking how EPD determined the $50,000.00 penalty amount. I explained to him the two violations were both maximum for deviation and potential for harm on the EPA matrix. Mr. Richardson no longer works for LeBoeuf, Lamb, Greene & MacRae. He now works for Lewis, Longman and Walker. I told him that we have not yet received the laboratory data from EPA. I indicated that once we get the data we will have an idea what is being stored at the site.

ACTION REQUIRED: Get another response from the company. Wait on laboratory results from EPA.

SIGNATURE: Freddie L. Dennis, Jr.

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

On November 3, 2004, I called Mr. Richardson back and asked that he submit some kind of proposal with his new letterhead and to get the discussion about the facility going and how they plan to resolve the issues at the site. I told him we just have to wait on laboratory date before we can conclude what is being stored on-site.

SIGNATURE:

File: S:\Rdrive\Freddie\Record of Telephone Conversation 10/26/2004.doc

LEWIS, LONGMAN & WALKER, P.A.
ATTORNEYS AT LAW

HELPING SHAPE
FLORIDA'S FUTURE®

www.llw-law.com

REPLY TO JACKSONVILLE

November 10, 2004

Mr. Freddie L. Dunn, Jr.
Unit Coordinator
Hazardous Waste Compliance Unit
Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, SE
Suite 1066
Atlanta, Georgia 30334-9000

Re: BCX, Inc., Waycross, Georgia

Dear Mr. Dunn:

BCX, Inc. has received your proposed Consent Order with regard to its facility in Waycross, Georgia. We have spoken to you about this matter several times and appreciate your indulgence as we attempt to work out a viable plan of action. We are currently waiting on the results of the tank sampling so that we can estimate the cost of removing the material currently on site. Because the facility has no current income, any resources for effectuating an overall resolution must be very carefully managed.

As you know, the BCX facility is in good condition and represents a sizable investment. It appears that any plan must result in bringing the facility back on line. It is possible that additional pretreatment equipment may be necessary in order to meet the concerns of the POTW and to further assure that the POTW is successful in meeting its discharge requirements. As a general concept, we would like you to consider a term of the Consent Order which would give BCX, Inc. credit for dollars spent on new pretreatment equipment against its penalty to your Department.

There is one important assumption in the Consent Order which is in error. In paragraph D it states that the City of Waycross terminated BCX's connection to the sewer system. That is not really the case. BCX felt that during its dialogue with the POTW, it

Bradenton
1001 3rd Avenue West
Suite 670
Bradenton, FL 34205
(941) 708-4040
Fax: (941) 708-4024

Jacksonville
9428 Baymeadows Road
Suite 625
Jacksonville, FL 32256
(904) 737-2020
Fax: (904) 737-3221

Tallahassee
Post Office Box 10788 (32302)
125 South Gadsden Street
Suite 300
Tallahassee, FL 32301
(850) 222-5702
Fax: (850) 224-9242

West Palm Beach
1700 Palm Beach Lakes Blvd.
Suite 1000
West Palm Beach, FL 33401
(561) 640-0820
Fax: (561) 640-8202

did not want to be accused of discharging and causing an upset to the POTW. Therefore, BCX unilaterally halted its discharges. The POTW did not terminate BCX's right to discharge under its pretreatment permit. In fact, the POTW has never done so. We would suggest that this fact impacts the clarity of the alleged violations in the Consent Order. We would suggest the facility continues to be exempt from permitting under the Solid Waste Management Act because, in the final analysis, it still has the permitted right to discharge to the POTW. We would ask you to ponder that concept as we move forward with discussions.

As I have indicated to you in our telephone conferences, my clients are attempting to develop a business plan to resume full operations in Waycross. This is a complex task. A bank, potential investors, the City and your Department are all parts to the puzzle. There is no lack of motivation to find a solution. Immediately after we receive the characterization of the material in the tanks, my clients will confer with consultants to review the possibilities. We look forward to working closely with you to resolve your concerns as part of the overall plan of action. Let's plan to talk again about two weeks after the analytical is received.

Sincerely,

Daniel D. Richardson

DDR:lt

Reference 27

(27)

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 4
ATLANTA FEDERAL CENTER
61 FORSYTH STREET
ATLANTA, GEORGIA 30303-8960

DEC 0 2 2004

RECEIVED
DEC 6 2004
GENERATOR COMPLIANCE PROGRAM
HAZARDOUS WASTE MANAGEMENT BRANCH

Mr. Mark Smith, Chief
Hazardous Waste Management Branch
Environmental Protection Division
Department of Natural Resources
205 Butler Street
Suite 1154, East Tower
Atlanta, GA 30334

SUBJ: Seven Out LLC Site, Waycross, Georgia

Dear Mr. Smith:

The U.S. Environmental Protection Agency's Emergency Response and Removal Branch (ERRB) conducted a site investigation at the above referenced site for potential removal action eligibility under the National Contingency Plan (NCP). The site investigation was conducted at the request of the State of Georgia.

The Seven Out Site is located in Waycross, Ware County, Georgia. The facility operated as an industrial wastewater treatment facility for approximately two years. The Site has 41 storage/treatment tanks with a combined capacity of approximately 450,000 gallons. After treatment, the wastewater was discharged to an on-site City of Waycross publicly owned treatment works (POTW) hook-up. Due to the failure to meet discharge limits throughout its operation, the facility received eight enforcement letters from the City of Waycross. On March 1, 2004, the City of Waycross disconnected the facility's POTW connection.

On August 23, 2004, On-Scene Coordination Terry Stilman conducted a removal assessment at the Site. Almost all of the tanks were found to be full, including 4 temporary 20,000 gallon tanks. Thirty-three of the facility's tanks were sampled for fixed lab analysis. Several soil samples were also taken from stained areas. Analytical results were found as high as 270 mg/L for acetone and 1 mg/L for benzene in the tanks, and 151 mg/kg for arsenic in the soils.

While this Site could be considered a high priority for removal eligibility, the State of Georgia is presently trying to resolve all of the issues related to the contents of the tanks and the future operation of the facility. A final determination by EPA of removal eligibility will therefore await the results of the State of Georgia's negotiations with the facility owner. Should the State of Georgia decide to refer this Site to EPA, a final determination of removal eligibility will be made by the OSC assigned to the Site.

If you have any questions concerning ERRB's determination, please contact Terry Stilman, OSC, at (404) 562-8748, or Matt Taylor, Chief of the Removal Operations Section, at (404) 562-8759.

Sincerely,

A. Shane Hitchcock

A. Shane Hitchcock, Chief
Emergency Response & Removal Branch

Attachment

cc: Fred Dunn, GA-EPD
Stacey Haire, EPA-EAD
Mike Norman, EPA-Site Evaluation Section

Reference 28

Georgia Department of Natural Resource
2 Martin Luther King, Jr. Drive, SE, Suite 1066 East, Atlanta, Georgia 30334-90
Noel Holcomb, Commissior
Environmental Protection Divisi
Carol A. Couch, Ph.D., Direc
Office: 404/657-8831 FAX: 404-463-66

January 21, 2005

28

Mr. Shane Hitchcock
Emergency Response and Removal Branch
U. S. EPA, Region IV
61 Forsyth Street, SW, 11th Floor
Atlanta, Georgia 30303

SUBJECT: BCX Waycross Facility Referral
901 Francis Street
Waycross, Ware County
EPA Identification Number: GAR000030007

Dear Mr. Hitchcock:

The Georgia Environmental Protection Division (EPD) requests EPA's assistance with the remediation of the BCX Waycross Facility in Ware County. This Waycross facility notified EPD as a used oil processor, but operated a wastewater treatment plant that failed to meet the discharge limits for the City of Waycross' Publicly Owned Treatment Works (POTW). On March 1, 2004, the City of Waycross disconnected the facility's connection to the POTW, and the facility has not been in operation since that time. The facility has been storing their acids and bases used for treating wastewater along with their processed and unprocessed wastewaters in storage and process tanks on-site. When the facility discontinued processing wastewaters, it ended up with an overflow of incoming wastewater, which had to be stored in four rented portable/temporary tanks that were placed on the adjoining property owned by CSX. As a result of storing hazardous waste and unidentified wastewaters, the facility has been out of compliance since March of 2004. The owner/operators were sent a proposed Consent Order on July 20, 2004, but have not yet entered into a Consent Order agreement with the EPD.

EPD requested your assistance to sample the waste in tanks and any suspected contaminated soil at the site during the summer. On August 23 to 26, 2004, your contractor, TetraTech, sampled 41 storage and process tanks and stained soil at the site and had them analyzed. The analysis indicated that some hazardous waste constituents were present in some of the tanks and in the soil at the site. The acid and alkaline materials stored in tanks at the site are corrosive (D002) and are considered to be a RCRA hazardous waste. EPD is concerned about this site because this facility has open tanks completely full of waste that may overflow at any time, there are floor drains and vats that are partially covered to prevent someone from falling into them, and there is limited security on-site with no limited access to the site. This site is a potential threat to the local community and the environment.

Our State Superfund Program does not have sufficient money at this time to remove the waste or provide security for this site due to State budget cuts and limited staff resources. Now that the wastes at the site have been characterized, we believe that all of the wastes at the site need to be removed as soon as possible and security provided for this site.

Since EPA is currently working to remediate similar problems found at the corporate office in Jacksonville, Florida, and has been working with BCX's legal and corporate personnel regarding similar environmental issues as determined at the Waycross site, EPA's Emergency Response and Removal Branch is in a better position to quickly resolve the problems at this site.

Thank you in advance for your cooperation in this matter. If you need any additional information, please have your staff contact Mr. Freddie L. Dunn, Jr. or Ms. Renée Hudson Goodley, Manager of the Generator Compliance Program at (404) 657-8831.

Sincerely,

Mark Smith

Mark Smith
Chief
Hazardous Waste Management Branch

MS/FLD/fld

File: BCX Waycross Facility (Seven Out LLC), Waycross
EPA Correspondence - FY2005
Facility Referrals – FY2005

S:\rdrive\Freddie\BCX Seven Out Waycross ERRB Letter.doc

Reference 29

29

United States Environmental Protection Agency
Region IV
POLLUTION REPORT

Date: Thursday, April 07, 2005
From: Terry Stilman, On-Scene Coordinator

Subject: Emergency Response
Seven Out
901 Frances Street, Waycross, GA

POLREP No.:	2	**Site #:**	A4FY
Reporting Period:	1/27 - 4/7	**D.O. #:**	
Start Date:	1/27/2005	**Response Authority:**	CERCLA
Mob Date:	1/27/2005	**Response Type:**	Emergency
Completion Date:		**NPL Status:**	Non NPL
CERCLIS ID #:	GAN000407811	**Incident Category:**	Removal Action
RCRIS ID #:		**Contract #**	

Site Description
The Site is located at 901 Francis Street, Waycross, Georgia. The past operational history of the site involved the storage and treatment of industrial waste water. Most of the tanks are full of waste water from the operation. The tanks are located adjacent to a public road in an area frequented by area residents and workers. Before the start of EPA's action some of the tanks were uncovered and overflowing. Access to the Site is unrestricted.

EPA arrived on-scene to reduce the threats posed by the Site through the following actions:

Emergency stabilization of the secondary containment and the tanks which have been observed to be overflowing;

Sampling of waste from tanks and secondary containment to determine the specific nature of the contents;

Bulking of waste materials and disposal off site;

Determination of the extent of sludge and soil contamination and disposal off-site;

Movement and/or removal of tanks to allow for the safe clean-up of the Site.

Current Activities

During the week of 28-JAN-05, EPA arrived on-scene to stabilize the leaking tanks of waste and overflowing secondary containment. Approximately 60,000 gallons of waste water was pumped to 3 temporary tanks.

After procurement of off-site disposal facilities, EPA remobed to the Site on 28-MAR-05 to remove all pumpable waste from the facilty's tanks. Approximately 280,000 gallons of waste water has been shipped off-site for disposal to date.

n 04-APR-05, drums of waste found on-site were sampled in anticipation of disposal off-site.

Planned Removal Actions
Off-site disposal of pumpable waste to continue.

All tanks will be temporarily covered to prevent further accumulation of rainwater mixed with the sludge remaining in the tanks.

Three of the four temporary tanks found outside of temporary containment during EPA's initial assessment will be deconned and released to the tanks' owner. One tank cannot be deconned due to the large quantity of sludge. Each tank held approximately 20,000 gallons of waste water.

Drummed waste will be disposed of off-site pending results of analysis.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$225,000.00	$128,098.00	$96,902.00	43.07%
USCG- GST	$5,000.00	$3,000.00	$2,000.00	40.00%
Intramural Costs				
Total Site Costs	$230,000.00	$131,098.00	$98,902.00	43.00%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

epaosc.net/sevenout

Reference 30

30

United States Environmental Protection Agency
Region IV
POLLUTION REPORT

Date: Monday, April 18, 2005
From: Terry Stilman, On-Scene Coordinator

Subject: Emergency Response
Seven Out
901 Frances Street, Waycross, GA

POLREP No.:	3	**Site #:**	A4FY
Reporting Period:	4/05/05 - 4/13/05	**D.O. #:**	
Start Date:	1/27/2005	**Response Authority:**	CERCLA
Mob Date:	1/27/2005	**Response Type:**	Emergency
Completion Date:		**NPL Status:**	Non NPL
CERCLIS ID #:	GAN000407811	**Incident Category:**	Removal Action
RCRIS ID #:		**Contract #**	

Site Description
The Site is located at 901 Francis Street, Waycross, Georgia. The past operational history of the site involved the storage and treatment of industrial waste water. Most of the tanks are full of waste water from the operation. The tanks are located adjacent to a public road in an area frequented by area residents and workers. Before the start of EPA's action some of the tanks were uncovered and overflowing. Access to the Site is unrestricted.

EPA arrived on-scene to reduce the threats posed by the Site through the following actions:

Emergency stabilization of the secondary containment and the tanks which have been observed to be overflowing;

Sampling of waste from tanks and secondary containment to determine the specific nature of the contents;

Bulking of waste materials and disposal off site;

Determination of the extent of sludge and soil contamination and disposal off-site;

Movement and/or removal of tanks to allow for the safe clean-up of the Site.

Current Activities

EPA, ERRS and the USCG-GST onsite. USCG-GST providing safety and contractor monitoring.

Waste Water removal and sampling of drums and small tanks continue.

Approximately 292,000 gallons of waste water has been shipped off-site for disposal to date.

All three frac tanks used by EPA to temporarily hold waste water have been deconned and returned to Baker tanks. Three out of the four frac tanks initailly found on-site have been emptied of waste

water and returned to Baker tanks. One frac tank has approximately five feet of hardened sludge and remains on-site.

All drums and small tanks have been sampled and haz-catted. Disposal samples have been submitted for laboratory analysis. Disposal to be determined by the results of the analytical.

Four 5,000 gallon poly tanks of material used by Seven Out for the treatment of waste water have been sampled and submitted to the original chemical supplier for possible return of the product.

The Site was demobbed on April 13, 2005 to await the results of analysis.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$225,000.00	$128,098.00	$96,902.00	43.07%
USCG- GST	$5,000.00	$3,000.00	$2,000.00	40.00%
Intramural Costs				
Total Site Costs	$230,000.00	$131,098.00	$98,902.00	43.00%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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Reference 31

(31)

United States Environmental Protection Agency
Region IV
POLLUTION REPORT

Date: Friday, June 10, 2005
From: Terry Stilman, On-Scene Coordinator

Subject: Final POLREP
Seven Out
901 Frances Street, Waycross, GA

POLREP No.:	4	**Site #:**	A4FY
Reporting Period:	1/27/05 - 6/10/05	**D.O. #:**	
Start Date:	1/27/2005	**Response Authority:**	CERCLA
Mob Date:	1/27/2005	**Response Type:**	Emergency
Completion Date:		**NPL Status:**	Non NPL
CERCLIS ID #:	GAN000407811	**Incident Category:**	Removal Action
RCRIS ID #:		**Contract #**	

Site Description

The Site is located at 901 Francis Street, Waycross, Georgia. The past operational history of the site involved the storage and treatment of industrial waste water. Most of the tanks were full of waste water from the operation. The tanks are located adjacent to a public road in an area frequented by area residents and workers. Before the start of EPA's action some of the tanks were uncovered and overflowing. Access to the Site is unrestricted.

On 27 January 2005, OSC Stilman mobilized to the Seven Out Tank Site to conduct a removal site evaluation, based on a request from the State of Georgia, Department of Natural Resources, Environmental Protection Division (EPD) and the City of Waycross. On 26 January 2005, both EPD and the City of Waycross contacted EPA regarding an overflow of facility tanks, causing wastes from the tanks to overflow into secondary containment. Secondary containment was also reportedly overflowing. While conducting a reconnaissance of the site, OSC Stilman discovered approximately forty-one abandoned tanks on the site, located near a public road bordering the site. Thirty-seven of the tanks are located within a low concrete secondary containment wall that was overflowing. Four of the tanks were outside of secondary containment. The secondary containment was overflowing with a mixture of rainwater and waste (waste water) from uncovered tanks. The waste water was flowing over the secondary containment wall into a drainage ditch. The total amount of waste water in the tanks were estimated to be 450,000 gallons.

The Seven Out facility notified EPD as a used oil processor, but operated a wastewater treatment plant that failed to meet the discharge limits for the City of Waycross's Publicly Owned Treatment Works (POTW). On March 1, 2004, the City of Waycross disconnected the facility's connection to the POTW, and the facility has not been in operation since that time. When the facility discontinued processing wastewaters, it ended up with an overflow of incoming wastewater, which had to be stored in four rented portable/temporary tanks that were placed on the adjoining property owned by CSX. At the time of EPA's assessment those tanks were still on-site. The EPD considered the facility to be incorrectly storing hazardous waste and out of compliance with State of Georgia regulations.

During the week of August 23, 2004, EPA sampled the tanks, at the request of the EPD. Acetone, benzene, sulfuric acid, sodium hydroxide and other hazardous constituents were found. On 27 January 2005, OSC Stilman found the facility abandoned. Facility buildings were also found open and unlocked. One facility building housed what appeared to be a small testing laboratory.

EPA arrived on-scene to reduce the threats posed by the Site through the following actions:

Emergency stabilization of the secondary containment and the tanks which had been observed to be overflowing;

Sampling of waste from tanks and secondary containment to determine the specific nature of the contents;

Bulking of waste materials and disposal off site;

Determination of the extent of sludge and soil contamination and disposal off-site;

Movement and/or removal of tanks to allow for the safe clean-up of the Site.

Current Activities
EPA, ERRS and the USCG-GST arrived onsite to stabilize the Site. USCG-GST providing safety and contractor monitoring.

Based on the analytical information collected by EPA's START contractor, waste water from the on-site tanks was shipped off-site.

Approximately 350,000 gallons of waste water was shipped off-site for disposal.

All three frac tanks used by EPA to temporarily hold waste water were deconned and returned to Baker tanks. Three out of the four frac tanks initially found on-site have been emptied of waste water and returned to Baker tanks. One frac tank has approximately five feet of hardened sludge and remains on-site. Of the tanks remaining, all contain some amount of sludge. All pumpable waste has been removed.

All drums and small tanks have been sampled and haz-catted. Based on laboratory analysis, the containers were consolidated and the waste disposed of off-site.

In addition approximately 3,000 gallons of sodium hydroxide and 3,000 gallons of feric chloride have been shipped off-site for recycling. Four 5,000 gallon poly tanks of low and high pH material used by Seven Out for the treatment of waste water remain on-site.

The Site was demobbed on June 10, 2005.

Planned Removal Actions
EPA Fund lead activies have been completed.

Next Steps
A determination will be made as to the appropriate mechanism to address the remaining Site wastes. An additional removal action may be necessary to address the sludge in the tanks and the reactive materials still stored on Site.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
ERRS - Cleanup Contractor	$225,000.00	$211,257.00	$13,743.00	6.11%
USCG- GST	$5,000.00	$3,000.00	$2,000.00	40.00%
Intramural Costs				
Total Site Costs	$230,000.00	$214,257.00	$15,743.00	6.84%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Disposition of Wastes

Waste Stream	Quantity	Manifest #	Disposal Facility
Corrosive (Acidic) D002, D007	1100 gallons	1	Clean Harbors, Baltimore, MD
Corrosive (Basic) D002	275 gallons	1	Clean Harbors, Baltimore, MD
Potassium Permanganate, D001	55 gallons	1	Clean Harbors, Baltimore, MD
Bisulfites D002	55 gallons	1	Clean Harbors, Baltimore, MD
Hydrogen Peroxide D001	55 gallons	1	Clean Harbors, Baltimore, MD
Oxidizing Liquid D001	55 gallons	1	Clean Harbors, Baltimore, MD
Non-Haz Waste Water	352,600 gallons		Water Recovery, Jacksonville, FL and Onyx Pecan Road Landfill, Valdosta, GA

www.epaosc.org/sevenout

Reference 32

(32)

EMERGENCY AND RAPID RESPONSE SERVICES

EPA REGION 4

Final Report
Task Order # F4-0032
Seven Out LLC Tank Site
Waycross, Georgia

Contract No. 68-S4-02-06

Prepared By:
WRS Infrastructure & Environment, Inc.
5555 Oakbrook Pkwy, Suite 175
Norcross, Georgia 30093

May 2, 2006

Table of Contents

1.0 INTRODUCTION

WRS was issued Task Order F4-0032 under ERRS contract number S4-68-02-06 on January 27, 2005, to mobilize personnel, materials, and equipment to complete the requested Task Order Statement of Work activities at this facility that operated as an industrial wastewater treatment plant until March 2004. The facility property has 37 storage/treatment tanks and four frac tanks with a combined capacity of over 450,000 gallons. Waste water was previously treated in the batch mode process with chemicals normally stored on site consisting of sodium hydroxide, aluminum sulfate, ferric acid, and sulfuric acid. The Task Order Statement of Work requested the liquids in the AST's and containment area be containerized to mitigate the threat of potential release and stabilize the site to assist future operations in the tank farm containment area. In addition, the Statement of Work requested the removal, transportation, and disposal of the wastewater contained in the bulk storage tanks and secondary containment area, as directed by the OSC. WRS was issued a ceiling of $100,000, with modification 0001 increasing the ceiling to $225,000.

2.0 SUMMARY OF ACTIVITIES

As stated above, WRS was issued an emergency response Task Order on January 27, 2005 to respond to liquids in the tank farm secondary containment area, potentially from rainwater and possible overflow from the open top process tanks. As directed by the OSC, WRS mobilized personnel, materials and equipment to stabilize the site with the transfer of liquids from the tank farm containment area and the open top process and storage tanks into temporary storage tanks. WRS personnel completed the transfer of approximately 40,000 gallons of liquids into temporary storage tanks and demobilized the site on January 30, 2005 pending solicitation of subsequent transportation and disposal services. WRS issued an IFB for site disposal services to execute a subcontract for site T&D services following proper EPA review and consent procedures.

WRS personnel mobilized to site on March 28, 2005 to continue Task Order Statement of Work activities and perform site T&D operations through selected subcontractor Environmental Outsource. Site activities in April 2005 involved the removal, transportation and disposal of approximately 330,000 gallons of non-hazardous liquids from the site AST's, including approximately 198,200 gallons for solidification and disposal at Onyx Pecan Row Landfill in Valdosta, Georgia and 137,900 gallons for waste water treatment at Water Recovery Incorporated in Jacksonville, Florida.

WRS also sampled four 6,000 gallon storage tanks of virgin products used for processing at the site. These samples were to verify purity of these products for WRS to recycle as a cost savings to the EPA versus disposal costs. A WRS Chemist was on site this month to HazCat several drums, totes and other miscellaneous containers. Mike Ingle, WRS Chemist II, developed the IFB for disposal of these waste streams.

Site activities resumed as scheduled on June 6, 2005. WRS disposed of the following five waste streams: acidic liquid, caustic liquid, potassium permanganate, hydrogen peroxide, and oxidizer liquid. In addition, WRS shipped off for recycling 3500 gallons each of sodium chlorite solution and aluminum ferric solution. Demobilization occurred on June 10, 2005.

Utilized Resources

Personnel	Equipment	Materials
Project Manager (1) Field Accountant (1) Foreman (1) Chemist (1) Equipment Operator (1) Laborer (2)	Pick up Truck (3) Forklift (1) Frac Tank (3) 3" Transfer Pump (2) 60' Man Lift (1) 30 Ton Crane (1) 1" Chemical Pump(1) 185 CFM Air Compressor 16" Cargo Trailer	40' X 80' Tarpaulin (1) 1000" X 3/8" Rope 3" Suction Hose 4" PVC Pipe and Various Fittings

3.0 TRANSPORTATION AND DISPOSAL

Description	EPA Waste Codes	Quantity	Unit of Measure
Non-Haz Industrial Waste Water		336600	Gallons
Waste Corrosive Liquid, Acidic, Inorganic, NOS (Sulfuric & Hydrochloric Acid) 8, UN3264, Pg II	D002, D007	1100	Gallons
Waste Corrosive Liquid, Basic, Inorganic, NOS (Sodium Hydroxide) 8 UN3266, Pg II	D002	275	Gallons
Potassium Permanganate Solid, 5.1 UN1490, Pg II	D001	55	Gallons
Bisulfite Aqueous Solution, NOS 8 UN2693, Pg II	D002	55	Gallons
Hydrogen Peroxide Aqueous Solution, > 40% < 60% Hydrogen Peroxide, 5.1 UN2014, Pg II	D001	55	Gallons
Oxidizing Liquids, NOS 5.1 UN3139, Pg I	D001	110	Gallons

4.0 HEALTH AND SAFETY

WRS personnel adhered strictly to the Site Specific Health and Safety Plan as prepared by the WRS Corporate Health and Safety Officer. There were no accidents or injuries on the site. All operations were conducted in accordance with the health and safety plan.

5.0 PROBLEMS AND RESOLUTION

WRS encountered no problems performing this Task Order Statement of Work.

6.0 FINANCIAL SUMMARY

As stated in Section 1 of the report, Task Order F4-0032 under contract number 68-S4-02-06 for the ceiling amount of $ 100,000 for the specified scope of work. Modification 0001 was issued to increase the ceiling to $ 225,000. No provisional rates were established under this Task Order.

Description	Vendor	Cost Of Services	Percent of Total Cost
Transportation and Disposal of regulated and non-regulated wastes	Environmental Outsource	$ 97,238.01	46.87 %

The projected Final Cost for the Task Order is $ 207,466.52, recognizing a balance of funding for de-obligation of $ 17,533.48. A detailed cost breakdown for this Task Order is provided in Appendix A. The current summary of the project financials through April 4, 2006 is as follows:

TO #	Obligated Ceiling	Deobligated Funds	Cumulative Personnel	Cumulative Equipment	Cumulative OFCs	Pending Total	Cumulative Total	% of Ceiling
F4-0032	$ 225,000	$ 0	$ 52,394.90	$ 5,387.90	$ 149,683.72	$ 0	$ 207,466.52	92.21 %

APPENDIX B
WASTE MANIFESTS/CERCLA OFF-SITE DISPOSAL REPORTS AND CERTIFICATES OF DISPOSAL/DESTRUCTION

WRS Infrastructure and Environment, Inc.

5555 Oakbrook Parkway
Norcross, Georgia 30093
Tel (770) 446-0002
Fax (770) 446-6999

February 20, 2006

Mr. Terry Stillman
On Scene Coordinator
U.S. EPA Region IV, ERRB
Atlanta Federal Center, 11th floor
61 Forsyth Street, SW
Atlanta, Georgia 30303

Dear Mr. Stillman,

In accordance with Section J, Attachment F-1, the CERCLA Off-site Disposal Report for the Seven Out site, Task Order number 0032 under contract number 68-S4-02-06 is enclosed with this correspondence. In addition, this letter contains the completed disposal information, including a waste generation report, copies of all signed manifests and the corresponding Certificate of Disposal.

I appreciate your time and attention regarding this matter. If there are any questions or comments concerning this report, I may be contacted at (770) 446-0002.

Sincerely,

Mark Bicksler, CHMM
Program Manager
WRS Infrastructure & Environment, Inc.
mbicksler@wrsie.com

CERCLA OFF-SITE DISPOSAL REPORT
Acid

Information Required for CERCLA Off-site Waste Management Activities.

1. *Superfund Site name/State/CERCLIS SSID number:* **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

___X___Removal	___X___Fund-financed
_____Remedial	_____PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

_____ solvents
_____ dioxins/furans
_____ cyanides
_____ heavy metals
(specify metals)
_X_ acids
_____ PCBs
_____ halogenated organics
_____ other RCRA-listed hazardous
Wastes (specify waste)
____ non-hazardous or de-listed wastes

Form:

_____ wastewater
_X_ liquid waste
_____ organic sludge
(> 1% total solids)
_____ inorganic sludge
(< 1% total org. carbon)
_____ contaminated soil
and debris
_____ solidified sludges

4. Quantity of waste:

1100 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:
>40% & <60% concentrated solution

6. Pre-treatment of waste before transportation: **None**

_____precipitation	_____neutralization
_____solidification	_____fixation
_____stabilization	_____other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
1100 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
___X___*incineration*	_____ *solidification / landfill*
_____land treatment	_____ injection
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:
Total for Project:
Transportation & Disposal for Solidification only: **$2,5019.00**

CERCLA OFF-SITE DISPOSAL REPORT
Caustic

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

__X__ Removal	__X__ Fund-financed
_____ Remedial	_____ PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:	Form:
_____ solvents	_____ wastewater
_____ dioxins/furans	_X_ liquid waste
_____ cyanides	_____ organic sludge (> 1% total solids)
_____ heavy metals (specify metals)	_____ inorganic sludge (< 1% total org. carbon)
_X_ caustic	_____ contaminated soil and debris
_____ PCBs	_____ solidified sludges
_____ halogenated organics	
_____ other RCRA-listed hazardous Wastes (specify waste)	
____ non-hazardous or de-listed wastes	

4. Quantity of waste:

275

5. Range, average, and/or representative concentrations of contaminates of concern:
>40% & <60% concentrated solution

6. Pre-treatment of waste before transportation: **None**

_____ precipitation	_____ neutralization
_____ solidification	_____ fixation
_____ stabilization	_____ other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
275 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____ precipitation	_____ neutralization
__X__ incineration	_____ solidification / landfill
_____ land treatment	_____ injection
_____ Recovery / re-use	_____ other (__)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal for Solidification only: **$500.00**

CERCLA OFF-SITE DISPOSAL REPORT
Hydrogen Peroxide

Information Required for CERCLA Off-site Waste Management Activities.

1. *Superfund Site name/State/CERCLIS SSID number:* **SevenOut Site**
   Waycross, GA.
   ID# GAND00407811

2. Type of action (Check two)

   ___X___Removal ___X___Fund-financed
   _____Remedial _____PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

_____ solvents
_____ dioxins/furans
_____ cyanides
_____ heavy metals
(specify metals)
_____ acids
_____ PCBs
_____ halogenated organics
__X__ other RCRA-listed hazardous
Wastes (specify waste)
____ non-hazardous or de-listed wastes

Form:

_____ wastewater
__X__ liquid waste
_____ organic sludge
(> 1% total solids)
_____ inorganic sludge
(< 1% total org. carbon)
_____ contaminated soil
and debris
_____ solidified sludges

4. Quantity of waste:

   55 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:
   >40% & <60% concentrated solution

6. Pre-treatment of waste before transportation: **None**

   _____precipitation _____neutralization
   _____ solidification _____fixation
   _____stabilization _____other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
1100 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
___X__incineration	_____ solidification / landfill
_____land treatment	_____ injection
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal for Solidification only: $399.00

CERCLA OFF-SITE DISPOSAL REPORT
Oxidizing Liquid

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

___X___Removal	___X___Fund-financed
_____Remedial	_____PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

_____ solvents
_____ dioxins/furans
_____ cyanides
_____ heavy metals
(specify metals)
_____ acids
_____ PCBs
_____ halogenated organics
__X__ other RCRA-listed hazardous
Wastes (specify waste)
____ non-hazardous or de-listed wastes

Form:

_____ wastewater
__X__ liquid waste
_____ organic sludge
(> 1% total solids)
_____ inorganic sludge
(< 1% total org. carbon)
_____ contaminated soil
and debris
_____ solidified sludges

4. Quantity of waste:

110 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:

6. Pre-treatment of waste before transportation: **None**

_____precipitation	_____neutralization
_____ solidification	_____fixation
_____stabilization	_____other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
110 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
___X__incineration	_____ solidification / landfill
_____land treatment	_____ injection
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal for Solidification only: **$310.00**

CERCLA OFF-SITE DISPOSAL REPORT
Potassium Permanganate

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

___X___Removal	___X___Fund-financed
_____Remedial	_____PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

- _____ solvents
- _____ dioxins/furans
- _____ cyanides
- _____ heavy metals (specify metals)
- __X__ acids
- _____ PCBs
- _____ halogenated organics
- _____ other RCRA-listed hazardous Wastes (specify waste)
- ____ non-hazardous or de-listed wastes

Form:

- _____ wastewater
- _____ liquid waste
- _____ organic sludge (> 1% total solids)
- _____ inorganic sludge (< 1% total org. carbon)
- _____ contaminated soil and debris
- _____ solidified sludges
- __X__solids

4. Quantity of waste:

55 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:
Commercial use concentration

6. Pre-treatment of waste before transportation: **None**

_____precipitation	_____neutralization
_____ solidification	_____fixation
_____*stabilization*	_____other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
55 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
__X__incineration	_____ solidification / landfill
_____land treatment	_____ injection
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal for Solidification only: $370.00

CERCLA OFF-SITE DISPOSAL REPORT
Sodium Bisulfite

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

__X__ Removal	__X__ Fund-financed
_____ Remedial	_____ PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:	Form:
_____ solvents	_____ wastewater
_____ dioxins/furans	__X__ liquid waste
_____ cyanides	_____ organic sludge (> 1% total solids)
_____ heavy metals (specify metals)	_____ inorganic sludge (< 1% total org. carbon)
_____ acids	_____ contaminated soil and debris
_____ PCBs	_____ solidified sludges
_____ halogenated organics	_____ solids
__X__ other RCRA-listed hazardous Wastes (specify waste)	
____ non-hazardous or de-listed wastes	

4. Quantity of waste:

55 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:
Commercial use aqueous solution

6. Pre-treatment of waste before transportation: **None**

_____ precipitation	_____ neutralization
_____ solidification	_____ fixation
_____ stabilization	_____ other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Clean Harbors
1910 Russell St
Baltimore, MD
USEPA ID# MDD98055189
55 Gallons

8. Receiving Region:

9. Receiving Region Off-site Contact (RROC):

10. Date (s) of shipments: **06/01/05**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
___X__incineration	_____ solidification / landfill
_____*land treatment*	_____ *injection*
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal for Solidification only: $159.00

CERCLA OFF-SITE DISPOSAL REPORT
Solidification

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

___X___ Removal	___X___ Fund-financed
_____ Remedial	_____ PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

- _____ solvents
- _____ dioxins/furans
- _____ cyanides
- _____ heavy metals (specify metals)
- _____ acids
- _____ PCBs
- _____ halogenated organics
- _____ other RCRA-listed hazardous Wastes (specify waste)
- ___X___ non-hazardous or de-listed wastes

Form:

- ___X___ wastewater
- _____ liquid waste
- _____ organic sludge (> 1% total solids)
- _____ inorganic sludge (< 1% total org. carbon)
- _____ contaminated soil and debris
- _____ solidified sludges

4. Quantity of waste:

192,500 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:

See attached analytical report

6. Pre-treatment of waste before transportation: **None**

_____ precipitation	_____ neutralization
_____ solidification	_____ fixation
_____ stabilization	_____ other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

Chesser Island Rd. Landfill, Inc. **Folkston, GA.**	**Onyx Pecan Row Landfill, LLC** **Valdosta, GA.**
10,500 Gallons	**191,000 Gallons**

8. Receiving Region: **IV**

9. Receiving Region Off-site Contact (RROC): **Terry Stillman**

10. Date (s) of shipments: **See attachment # 1, waste generation report**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
_____incineration	__X__ solidification / landfill
_____land treatment	_____ injection
_____ Recovery / re-use	_____ other (___)

13. Cost of activities:

Total for Project:

Transportation & Disposal for Solidification only: **$62,560.00**

CERCLA OFF-SITE DISPOSAL REPORT
Water Treatment

Information Required for CERCLA Off-site Waste Management Activities.

1. Superfund Site name/State/CERCLIS SSID number: **SevenOut Site**
Waycross, GA.
ID# GAND00407811

2. Type of action (Check two)

___X___ Removal	___X___ Fund-financed
_____ Remedial	_____ PRP-financed

3. Type (check one) and form (check one) of waste; if more than one type, attach separate sheets for this and remaining questions for each type:

Type:

- _____ solvents
- _____ dioxins/furans
- _____ cyanides
- _____ heavy metals (specify metals)
- _____ acids
- _____ PCBs
- _____ halogenated organics
- _____ other RCRA-listed hazardous Wastes (specify waste)
- ___X___ non-hazardous or de-listed wastes

Form:

- ___X___ wastewater
- _____ liquid waste
- _____ organic sludge (> 1% total solids)
- _____ inorganic sludge (< 1% total org. carbon)
- _____ contaminated soil and debris
- _____ solidified sludges

4. Quantity of waste:

134,600 gallons

5. Range, average, and/or representative concentrations of contaminates of concern:

See attached analytical report

6. Pre-treatment of waste before transportation: **None**

_____ precipitation	_____ neutralization
_____ solidification	_____ fixation
_____ stabilization	_____ other(_____)

7. Receiving RCRA facility name/location/I.D. number/units:

   1. Water Recovery Inc.
      1819 Albert St.
      Jacksonville, FL
      RCRA ID# FLR000069062

8. Receiving Region: **IV**

9. Receiving Region Off-site Contact (RROC): **Terry Stillman**

10. Date (s) of shipments: **See attachment # 1, waste generation report**

11. Pre-treatment of waste at site before final treatment or disposal: **None**

12. Final method of treatment or disposal/unit receiving:

_____precipitation	_____ neutralization
_____incineration	_____ landfill
_____land treatment	_____ injection
___X___recovery / re-use	_____ other (___)

13. Cost of activities:
    Total for Project:
    Transportation & Disposal Waste Water only: **$30,422.00**

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-015

Client Sample ID: F237
Collection Date: 8/25/2004 3:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP		SW1311/7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00400		mg/L	49366	1	9/8/2004 10:54:04 AM
ICP METALS, TCLP		SW1311/6010B			(SW3010A)		Analyst: BB
Arsenic	BRL	0.250		mg/L	49227	1	9/2/2004 3:13:00 AM
Barium	BRL	0.500		mg/L	49227	1	9/2/2004 3:13:00 AM
Cadmium	BRL	0.0250		mg/L	49227	1	9/2/2004 3:13:00 AM
Chromium	BRL	0.0500		mg/L	49227	1	9/2/2004 3:13:00 AM
Lead	0.0630	0.0500		mg/L	49227	1	9/2/2004 3:13:00 AM
Selenium	BRL	0.100		mg/L	49227	1	9/2/2004 3:13:00 AM
Silver	BRL	0.0250		mg/L	49227	1	9/2/2004 3:13:00 AM
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Aluminum	BRL	1.00		mg/L	49140	1	9/1/2004 9:42:00 PM
Antimony	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Arsenic	BRL	0.250		mg/L	49140	1	9/1/2004 9:42:00 PM
Barium	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Beryllium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Cadmium	BRL	0.0250		mg/L	49140	1	9/1/2004 9:42:00 PM
Calcium	7.23	0.500		mg/L	49140	1	9/1/2004 9:42:00 PM
Chromium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Cobalt	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Copper	0.142	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Iron	11.1	0.500		mg/L	49140	1	9/1/2004 9:42:00 PM
Lead	BRL	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Magnesium	0.902	0.500		mg/L	49140	1	9/1/2004 9:42:00 PM
Manganese	0.112	0.0250		mg/L	49140	1	9/1/2004 9:42:00 PM
Nickel	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Potassium	7.17	2.50		mg/L	49140	1	9/3/2004 10:52:00 AM
Selenium	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Silver	BRL	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Sodium	1450	5.00		mg/L	49140	1	9/3/2004 10:52:00 AM
Thallium	BRL	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
Vanadium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:42:00 PM
Zinc	2.03	0.100		mg/L	49140	1	9/1/2004 9:42:00 PM
MERCURY, TOTAL		SW7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00020		mg/L	49318	1	9/3/2004 12:47:00 PM
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
1,1'-Biphenyl	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2,4,5-Trichlorophenol	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
2,4,6-Trichlorophenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-015

Client Sample ID: F237
Collection Date: 8/25/2004 3:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
2,4-Dichlorophenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2,4-Dimethylphenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2,4-Dinitrophenol	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
2,4-Dinitrotoluene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2,6-Dinitrotoluene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Chloronaphthalene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Chlorophenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Methylnaphthalene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Methylphenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Nitroaniline	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
2-Nitrophenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
3,3'-Dichlorobenzidine	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
3-Nitroaniline	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
4,6-Dinitro-2-methylphenol	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Bromophenyl phenyl ether	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Chloro-3-methylphenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Chloroaniline	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Chlorophenyl phenyl ether	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Methylphenol	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Nitroaniline	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
4-Nitrophenol	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
Acenaphthene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Acenaphthylene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Acetophenone	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Anthracene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Atrazine	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benz(a)anthracene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benzaldehyde	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benzo(a)pyrene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benzo(b)fluoranthene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benzo(g,h,i)perylene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Benzo(k)fluoranthene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Bis(2-chloroethoxy)methane	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Bis(2-chloroethyl)ether	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Bis(2-chloroisopropyl)ether	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Bis(2-ethylhexyl)phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Butyl benzyl phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Caprolactam	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Carbazole	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Chrysene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-015

Client Sample ID: F237
Collection Date: 8/25/2004 3:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
Dibenz(a,h)anthracene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Dibenzofuran	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Diethyl phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Dimethyl phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Di-n-butyl phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Di-n-octyl phthalate	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Fluoranthene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Fluorene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Hexachlorobenzene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Hexachlorobutadiene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Hexachlorocyclopentadiene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Hexachloroethane	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Indeno(1,2,3-cd)pyrene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Isophorone	150	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Naphthalene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Nitrobenzene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
N-Nitrosodi-n-propylamine	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
N-Nitrosodiphenylamine	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Pentachlorophenol	BRL	250		µg/L	49104	1	8/31/2004 8:35:00 PM
Phenanthrene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Phenol	260	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Pyrene	BRL	100		µg/L	49104	1	8/31/2004 8:35:00 PM
Surr: 2,4,6-Tribromophenol	37.5	47-146	S	%REC	49104	1	8/31/2004 8:35:00 PM
Surr: 2-Fluorobiphenyl	34.3	37-135	S	%REC	49104	1	8/31/2004 8:35:00 PM
Surr: 2-Fluorophenol	45.7	23.9-109		%REC	49104	1	8/31/2004 8:35:00 PM
Surr: 4-Terphenyl-d14	26.2	21.9-145		%REC	49104	1	8/31/2004 8:35:00 PM
Surr: Nitrobenzene-d5	49.4	32.3-136		%REC	49104	1	8/31/2004 8:35:00 PM
Surr: Phenol-d5	45.9	10-109		%REC	49104	1	8/31/2004 8:35:00 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
1,1,1-Trichloroethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,1,2,2-Tetrachloroethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,1,2-Trichloroethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,1-Dichloroethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,1-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2,4-Trichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2-Dibromo-3-chloropropane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2-Dibromoethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2-Dichloroethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,2-Dichloropropane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-015

Client Sample ID: F237
Collection Date: 8/25/2004 3:35:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: AD**
1,3-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
1,4-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
2-Butanone	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
2-Hexanone	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
4-Methyl-2-pentanone	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
Acetone	BRL	400		µg/L	49197	20	8/31/2004 4:50:00 PM
Benzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Bromodichloromethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Bromoform	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Bromomethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Carbon disulfide	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Carbon tetrachloride	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Chlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Chloroethane	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
Chloroform	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Chloromethane	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
cis-1,2-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
cis-1,3-Dichloropropene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Cyclohexane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Dibromochloromethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Dichlorodifluoromethane	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
Ethylbenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Freon-113	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
Isopropylbenzene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
m,p-Xylene	BRL	200		µg/L	49197	20	8/31/2004 4:50:00 PM
Methyl acetate	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Methyl tert-butyl ether	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Methylcyclohexane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Methylene chloride	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
o-Xylene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Styrene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Tetrachloroethene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Toluene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
trans-1,2-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
trans-1,3-Dichloropropene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Trichloroethene	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Trichlorofluoromethane	BRL	100		µg/L	49197	20	8/31/2004 4:50:00 PM
Vinyl chloride	BRL	40		µg/L	49197	20	8/31/2004 4:50:00 PM
Surr: 4-Bromofluorobenzene	103	63.1-121		%REC	49197	20	8/31/2004 4:50:00 PM
Surr: Dibromofluoromethane	97.3	69.5-126		%REC	49197	20	8/31/2004 4:50:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT:	Tetra Tech EM Inc.	**Client Sample ID:**	F237
Lab Order:	0408B38	**Collection Date:**	8/25/2004 3:35:00 PM
Project:	Seven Out		
Lab ID:	0408B38-015	**Matrix:**	AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
Surr: Toluene-d8	101	74.2-120		%REC	49197	20	8/31/2004 4:50:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-017

Client Sample ID: G107D
Collection Date: 8/25/2004 4:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP		SW1311/7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00400		mg/L	49366	1	9/8/2004 10:57:44 AM
ICP METALS, TCLP		SW1311/6010B			(SW3010A)		Analyst: BB
Arsenic	BRL	0.250		mg/L	49227	1	9/2/2004 3:30:00 AM
Barium	BRL	0.500		mg/L	49227	1	9/2/2004 3:30:00 AM
Cadmium	BRL	0.0250		mg/L	49227	1	9/2/2004 3:30:00 AM
Chromium	BRL	0.0500		mg/L	49227	1	9/2/2004 3:30:00 AM
Lead	BRL	0.0500		mg/L	49227	1	9/2/2004 3:30:00 AM
Selenium	BRL	0.100		mg/L	49227	1	9/2/2004 3:30:00 AM
Silver	BRL	0.0250		mg/L	49227	1	9/2/2004 3:30:00 AM
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Aluminum	2.22	0.200		mg/L	49140	1	9/1/2004 9:50:00 PM
Antimony	BRL	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Arsenic	BRL	0.0500		mg/L	49140	1	9/1/2004 9:50:00 PM
Barium	0.175	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Beryllium	BRL	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Cadmium	BRL	0.0050		mg/L	49140	1	9/1/2004 9:50:00 PM
Calcium	182	0.100		mg/L	49140	1	9/1/2004 9:50:00 PM
Chromium	BRL	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Cobalt	BRL	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Copper	0.130	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Iron	140	0.100		mg/L	49140	1	9/1/2004 9:50:00 PM
Lead	BRL	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Magnesium	26.1	0.100		mg/L	49140	1	9/1/2004 9:50:00 PM
Manganese	3.09	0.0050		mg/L	49140	1	9/1/2004 9:50:00 PM
Nickel	0.139	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Potassium	94.1	5.00		mg/L	49140	10	9/3/2004 11:01:00 AM
Selenium	BRL	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Silver	BRL	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Sodium	3640	10.0		mg/L	49140	10	9/3/2004 11:01:00 AM
Thallium	BRL	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
Vanadium	BRL	0.0100		mg/L	49140	1	9/1/2004 9:50:00 PM
Zinc	1.38	0.0200		mg/L	49140	1	9/1/2004 9:50:00 PM
MERCURY, TOTAL		SW7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00020		mg/L	49318	1	9/3/2004 12:47:00 PM
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
1,1'-Biphenyl	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2,4,5-Trichlorophenol	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
2,4,6-Trichlorophenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-017

Client Sample ID: G107D
Collection Date: 8/25/2004 4:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
2,4-Dichlorophenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2,4-Dimethylphenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2,4-Dinitrophenol	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
2,4-Dinitrotoluene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2,6-Dinitrotoluene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Chloronaphthalene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Chlorophenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Methylnaphthalene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Methylphenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Nitroaniline	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
2-Nitrophenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
3,3'-Dichlorobenzidine	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
3-Nitroaniline	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
4,6-Dinitro-2-methylphenol	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Bromophenyl phenyl ether	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Chloro-3-methylphenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Chloroaniline	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Chlorophenyl phenyl ether	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Methylphenol	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Nitroaniline	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
4-Nitrophenol	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
Acenaphthene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Acenaphthylene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Acetophenone	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Anthracene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Atrazine	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benz(a)anthracene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benzaldehyde	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benzo(a)pyrene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benzo(b)fluoranthene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benzo(g,h,i)perylene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Benzo(k)fluoranthene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Bis(2-chloroethoxy)methane	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Bis(2-chloroethyl)ether	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Bis(2-chloroisopropyl)ether	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Bis(2-ethylhexyl)phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Butyl benzyl phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Caprolactam	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Carbazole	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Chrysene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-017

Client Sample ID: G107D
Collection Date: 8/25/2004 4:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
Dibenz(a,h)anthracene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Dibenzofuran	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Diethyl phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Dimethyl phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Di-n-butyl phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Di-n-octyl phthalate	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Fluoranthene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Fluorene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Hexachlorobenzene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Hexachlorobutadiene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Hexachlorocyclopentadiene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Hexachloroethane	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Indeno(1,2,3-cd)pyrene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Isophorone	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Naphthalene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Nitrobenzene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
N-Nitrosodi-n-propylamine	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
N-Nitrosodiphenylamine	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Pentachlorophenol	BRL	2500		µg/L	49109	10	9/1/2004 10:56:00 PM
Phenanthrene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Phenol	30000	10000		µg/L	49109	100	9/3/2004 3:17:00 PM
Pyrene	BRL	1000		µg/L	49109	10	9/1/2004 10:56:00 PM
Surr: 2,4,6-Tribromophenol	70.2	47-146		%REC	49109	10	9/1/2004 10:56:00 PM
Surr: 2-Fluorobiphenyl	63.0	37-135		%REC	49109	10	9/1/2004 10:56:00 PM
Surr: 2-Fluorophenol	40.0	23.9-109		%REC	49109	10	9/1/2004 10:56:00 PM
Surr: 4-Terphenyl-d14	9.00	21.9-145	S	%REC	49109	10	9/1/2004 10:56:00 PM
Surr: Nitrobenzene-d5	84.2	32.3-136		%REC	49109	10	9/1/2004 10:56:00 PM
Surr: Phenol-d5	67.1	10-109		%REC	49109	10	9/1/2004 10:56:00 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
1,1,1-Trichloroethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,1,2,2-Tetrachloroethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,1,2-Trichloroethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,1-Dichloroethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,1-Dichloroethene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2,4-Trichlorobenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2-Dibromo-3-chloropropane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2-Dibromoethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2-Dichlorobenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2-Dichloroethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,2-Dichloropropane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-017

Client Sample ID: G107D
Collection Date: 8/25/2004 4:30:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: AD**
1,3-Dichlorobenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
1,4-Dichlorobenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
2-Butanone	180	100		µg/L	49197	10	8/31/2004 4:22:00 PM
2-Hexanone	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
4-Methyl-2-pentanone	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
Acetone	8600	1000		µg/L	49197	50	9/1/2004 12:17:00 PM
Benzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Bromodichloromethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Bromoform	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Bromomethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Carbon disulfide	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Carbon tetrachloride	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Chlorobenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Chloroethane	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
Chloroform	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Chloromethane	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
cis-1,2-Dichloroethene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
cis-1,3-Dichloropropene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Cyclohexane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Dibromochloromethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Dichlorodifluoromethane	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
Ethylbenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Freon-113	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
Isopropylbenzene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
m,p-Xylene	BRL	100		µg/L	49197	10	8/31/2004 4:22:00 PM
Methyl acetate	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Methyl tert-butyl ether	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Methylcyclohexane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Methylene chloride	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
o-Xylene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Styrene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Tetrachloroethene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Toluene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
trans-1,2-Dichloroethene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
trans-1,3-Dichloropropene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Trichloroethene	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Trichlorofluoromethane	BRL	50		µg/L	49197	10	8/31/2004 4:22:00 PM
Vinyl chloride	BRL	20		µg/L	49197	10	8/31/2004 4:22:00 PM
Surr: 4-Bromofluorobenzene	98.1	63.1-121		%REC	49197	50	9/1/2004 12:17:00 PM
Surr: 4-Bromofluorobenzene	104	63.1-121		%REC	49197	10	8/31/2004 4:22:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT:	Tetra Tech EM Inc.	**Client Sample ID:**	G107D
Lab Order:	0408B38	**Collection Date:**	8/25/2004 4:30:00 PM
Project:	Seven Out		
Lab ID:	0408B38-017	**Matrix:**	AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: AD
Surr: Dibromofluoromethane	98.9	69.5-126		%REC	49197	50	9/1/2004 12:17:00 PM
Surr: Dibromofluoromethane	95.7	69.5-126		%REC	49197	10	8/31/2004 4:22:00 PM
Surr: Toluene-d8	102	74.2-120		%REC	49197	10	8/31/2004 4:22:00 PM
Surr: Toluene-d8	103	74.2-120		%REC	49197	50	9/1/2004 12:17:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT:	Tetra Tech EM Inc.	**Client Sample ID:**	G300D
Lab Order:	0408B38	**Collection Date:**	8/25/2004 4:10:00 PM
Project:	Seven Out		
Lab ID:	0408B38-018	**Matrix:**	AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
MERCURY, TCLP		SW1311/7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00400		mg/L	49366	1	9/8/2004 10:59:34 AM
ICP METALS, TCLP		SW1311/6010B			(SW3010A)		Analyst: BB
Arsenic	BRL	0.250		mg/L	49227	1	9/2/2004 3:34:00 AM
Barium	BRL	0.500		mg/L	49227	1	9/2/2004 3:34:00 AM
Cadmium	BRL	0.0250		mg/L	49227	1	9/2/2004 3:34:00 AM
Chromium	BRL	0.0500		mg/L	49227	1	9/2/2004 3:34:00 AM
Lead	0.0724	0.0500		mg/L	49227	1	9/2/2004 3:34:00 AM
Selenium	BRL	0.100		mg/L	49227	1	9/2/2004 3:34:00 AM
Silver	BRL	0.0250		mg/L	49227	1	9/2/2004 3:34:00 AM
METALS, TOTAL		SW6010B			(SW3010A)		Analyst: BB
Aluminum	BRL	1.00		mg/L	49140	1	9/1/2004 9:54:00 PM
Antimony	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Arsenic	BRL	0.250		mg/L	49140	1	9/1/2004 9:54:00 PM
Barium	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Beryllium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Cadmium	BRL	0.0250		mg/L	49140	1	9/1/2004 9:54:00 PM
Calcium	8.73	0.500		mg/L	49140	1	9/1/2004 9:54:00 PM
Chromium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Cobalt	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Copper	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Iron	5.47	0.500		mg/L	49140	1	9/1/2004 9:54:00 PM
Lead	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Magnesium	1.25	0.500		mg/L	49140	1	9/1/2004 9:54:00 PM
Manganese	0.123	0.0250		mg/L	49140	1	9/1/2004 9:54:00 PM
Nickel	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Potassium	8.25	2.50		mg/L	49140	1	9/3/2004 11:05:00 AM
Selenium	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Silver	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Sodium	1120	5.00		mg/L	49140	1	9/3/2004 11:05:00 AM
Thallium	BRL	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
Vanadium	BRL	0.0500		mg/L	49140	1	9/1/2004 9:54:00 PM
Zinc	0.700	0.100		mg/L	49140	1	9/1/2004 9:54:00 PM
MERCURY, TOTAL		SW7470A			(SW7470A)		Analyst: EM
Mercury	BRL	0.00160		mg/L	49272	1	9/2/2004 4:32:00 PM
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
1,1'-Biphenyl	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2,4,5-Trichlorophenol	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
2,4,6-Trichlorophenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-018

Client Sample ID: G300D
Collection Date: 8/25/2004 4:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		**SW8270C**			**(SW3520)**		**Analyst: YH**
2,4-Dichlorophenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2,4-Dimethylphenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2,4-Dinitrophenol	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
2,4-Dinitrotoluene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2,6-Dinitrotoluene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Chloronaphthalene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Chlorophenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Methylnaphthalene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Methylphenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Nitroaniline	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
2-Nitrophenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
3,3'-Dichlorobenzidine	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
3-Nitroaniline	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
4,6-Dinitro-2-methylphenol	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Bromophenyl phenyl ether	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Chloro-3-methylphenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Chloroaniline	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Chlorophenyl phenyl ether	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Methylphenol	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Nitroaniline	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
4-Nitrophenol	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
Acenaphthene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Acenaphthylene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Acetophenone	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Anthracene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Atrazine	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benz(a)anthracene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benzaldehyde	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benzo(a)pyrene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benzo(b)fluoranthene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benzo(g,h,i)perylene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Benzo(k)fluoranthene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Bis(2-chloroethoxy)methane	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Bis(2-chloroethyl)ether	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Bis(2-chloroisopropyl)ether	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Bis(2-ethylhexyl)phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Butyl benzyl phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Caprolactam	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Carbazole	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Chrysene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT:	Tetra Tech EM Inc.	**Client Sample ID:**	G300D
Lab Order:	0408B38	**Collection Date:**	8/25/2004 4:10:00 PM
Project:	Seven Out		
Lab ID:	0408B38-018	**Matrix:**	AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL-SEMIVOLATILE ORGANICS		SW8270C			(SW3520)		Analyst: YH
Dibenz(a,h)anthracene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Dibenzofuran	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Diethyl phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Dimethyl phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Di-n-butyl phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Di-n-octyl phthalate	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Fluoranthene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Fluorene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Hexachlorobenzene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Hexachlorobutadiene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Hexachlorocyclopentadiene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Hexachloroethane	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Indeno(1,2,3-cd)pyrene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Isophorone	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Naphthalene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Nitrobenzene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
N-Nitrosodi-n-propylamine	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
N-Nitrosodiphenylamine	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Pentachlorophenol	BRL	250		µg/L	49109	1	9/1/2004 3:23:00 PM
Phenanthrene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Phenol	170	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Pyrene	BRL	100		µg/L	49109	1	9/1/2004 3:23:00 PM
Surr: 2,4,6-Tribromophenol	54.1	47-148		%REC	49109	1	9/1/2004 3:23:00 PM
Surr: 2-Fluorobiphenyl	42.4	37-135		%REC	49109	1	9/1/2004 3:23:00 PM
Surr: 2-Fluorophenol	84.5	23.9-109		%REC	49109	1	9/1/2004 3:23:00 PM
Surr: 4-Terphenyl-d14	21.6	21.9-145	S	%REC	49109	1	9/1/2004 3:23:00 PM
Surr: Nitrobenzene-d5	69.2	32.3-136		%REC	49109	1	9/1/2004 3:23:00 PM
Surr: Phenol-d5	73.8	10-109		%REC	49109	1	9/1/2004 3:23:00 PM
TCL VOLATILE ORGANICS		SW8260B			(SW5030B)		Analyst: AD
1,1,1-Trichloroethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,1,2,2-Tetrachloroethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,1,2-Trichloroethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,1-Dichloroethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,1-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2,4-Trichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2-Dibromo-3-chloropropane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2-Dibromoethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2-Dichloroethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,2-Dichloropropane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT: Tetra Tech EM Inc.
Lab Order: 0408B38
Project: Seven Out
Lab ID: 0408B38-018

Client Sample ID: G300D
Collection Date: 8/25/2004 4:10:00 PM
Matrix: AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		**SW8260B**			**(SW5030B)**		**Analyst: AD**
1,3-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
1,4-Dichlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
2-Butanone	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
2-Hexanone	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
4-Methyl-2-pentanone	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
Acetone	BRL	400		µg/L	49197	20	8/31/2004 3:55:00 PM
Benzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Bromodichloromethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Bromoform	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Bromomethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Carbon disulfide	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Carbon tetrachloride	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Chlorobenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Chloroethane	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
Chloroform	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Chloromethane	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
cis-1,2-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
cis-1,3-Dichloropropene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Cyclohexane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Dibromochloromethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Dichlorodifluoromethane	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
Ethylbenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Freon-113	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
Isopropylbenzene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
m,p-Xylene	BRL	200		µg/L	49197	20	8/31/2004 3:55:00 PM
Methyl acetate	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Methyl tert-butyl ether	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Methylcyclohexane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Methylene chloride	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
o-Xylene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Styrene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Tetrachloroethene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Toluene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
trans-1,2-Dichloroethene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
trans-1,3-Dichloropropene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Trichloroethene	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Trichlorofluoromethane	BRL	100		µg/L	49197	20	8/31/2004 3:55:00 PM
Vinyl chloride	BRL	40		µg/L	49197	20	8/31/2004 3:55:00 PM
Surr: 4-Bromofluorobenzene	103	63.1-121		%REC	49197	20	8/31/2004 3:55:00 PM
Surr: Dibromofluoromethane	94.5	69.5-126		%REC	49197	20	8/31/2004 3:55:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analytic certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

Analytical Environmental Services, Inc.

Date: *14-Sep-04*

CLIENT:	Tetra Tech EM Inc.	**Client Sample ID:**	G300D
Lab Order:	0408B38	**Collection Date:**	8/25/2004 4:10:00 PM
Project:	Seven Out		
Lab ID:	0408B38-018	**Matrix:**	AQUEOUS

Analyses	Result	Rpt. Limit	Qual	Units	BatchID	DF	Date Analyzed
TCL VOLATILE ORGANICS		SW8260B		(SW5030B)			Analyst: AD
Surr: Toluene-d8	100	74.2-120		%REC	49197	20	8/31/2004 3:55:00 PM

Qualifiers:				
	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	BRL	Below Reporting Limit	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	N	Analyte not NELAC certified	P	NELAC analyte certification pending
	Rpt Limit	Reporting Limit	S	Spike Recovery outside accepted recovery limits

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
SEVEN 501
501 FRANCIS ST.
WAYCROSS, GA 31501
4. Generator's Phone (912) 285-9402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L 0 3 3 3 1 0 0 4 1 1

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32206

10. US EPA ID Number
F L R 0 0 0 0 6 9 0 6 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description	12. Containers. No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		TT	4000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
pH Before Adj
Lime In Pins out

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2400
Bill to: Environmental Outsource INC
P.O. Box 715
Round O, SC 29474
Ph. 843-538-6585
Fax 843-538-1028
WRI Approval #

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name | Signature | Month | Day | Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address

901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 338-0402

5. Transporter 1 Company Name: BARNETT TRANSPORTATION, INC.

6. US EPA ID Number: A L T 9 8 3 1 8 6 1 1 7

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address

WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number: F L R 0 0 0 0 2 9 0 6 3

C. Facility's Phone: 904-475-2820

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		T.	[illegible]	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

pH ___ Solids ___ TDS ___

Time In ___ Time out ___

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1010

WRI Approval # ___

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] Signature: [illegible] Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name Signature Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name Signature Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. 58/2005

Generator

Generator's Name and Mailing Address
SEVEN OIL
901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 285-3472

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L D 0 5 3 1 8 6 4 1

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 0 0 3 2

C. Facility's Phone
904-475-0920

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER		T.J	5500	G
b.				
c.				
d.				

Additional Descriptions for Materials Listed Above
DH ___ SOILS ___ PH ___
Time In ___ Time out ___

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715
Round O, SC 29474
Ph 843-538-6085
Fax 843-538-1020
WRI Approval # ___

Transporter

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Mark Stone Paint Bailed Liquid-PA
Signature
Month 03 Day 15 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JEAN GERMAIN
Signature
Month 03 Day 15 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

Facility

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3. Generator's Name and Mailing Address
[illegible]
901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 338-0402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L R 3 8 3 1 5 9 4 1

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 9 0 6 2

C. Facility's Phone
904-475-5320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater	[illegible]	IT	[illegible]	[illegible]
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
[illegible]
Tires in [illegible] tires out [illegible]

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 716 Ph 843-538-6865
Round O, SC 29474 Fax 843-538-1028
PMI Approval #

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
J. B Sugor	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

Emergency Contact Telephone Number

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. GAN000407911

Manifest Document No. 002

2. Page 1 of 1

Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address
USEPA
101 Forsyth St. Atlanta, GA 30303

4. Generator's Phone (770) 401-6527 ext 13

A. State Manifest Document Number

B. State Generator's ID

5. Transporter 1 Company Name
SPARKS INDUSTRIAL

US EPA ID Number
NCR000137547
~~WDD541364~~

C. State Transporter's ID

D. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

E. State Transporter's ID

F. Transporter's Phone

9. Designated Facility Name and Site Address
Clean Harbors
710 Russell St.
Baltimore, MD 21230

10. US EPA ID Number
(781) 849-1900
MDD980555189

G. State Facility's ID

H. Facility's Phone

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)

	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		D001 Hydrogen Peroxide aqueous solution with more than 40% but not more than 60% hydrogen peroxide, 5.1, UN2014, PG II	1	DF	55	Gal	D001
b.		D001 Oxidizing liquids, NOS 5.1 UN3139, PG I	2	DF	55	Gal	D001
c.							
d.							

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimized the present and future threat to human health and the environment; **OR,** if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: Tony Salma | Signature: [illegible] | Month | Day | Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: [illegible] | Signature: [illegible] | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. [illegible]
Manifest Document No. [illegible]
2. Page 1 of 1
Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address [illegible]
4. Generator's Phone ([illegible]

A. State Manifest Document Number
B. State Generator's ID

5. Transporter 1 Company Name [illegible]
6. US EPA ID Number [illegible]
C. State Transporter's ID
D. Transporter's Phone

7. Transporter 2 Company Name
8. US EPA ID Number
E. State Transporter's ID
F. Transporter's Phone

9. Designated Facility Name and Site Address [illegible]
10. US EPA ID Number [illegible]
G. State Facility's ID
H. Facility's Phone

GENERATOR

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	HM		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a.		D002, D007 Waste [illegible]	4	[illegible]	[illegible]	[illegible]	[illegible]
b.		D002 [illegible]	1	DM	.275	[illegible]	[illegible]
c.		D001 [illegible]	1	[illegible]	.55	[illegible]	[illegible]
d.		D002 [illegible]	1	[illegible]	.55	[illegible]	D002

J. Additional Descriptions for Materials Listed Above

K. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. **GENERATOR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national governmental regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name [illegible] | Signature [illegible] | Month | Day | Year

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name [illegible] | Signature [illegible] | Month | Day | Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name | Signature | Month | Day | Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name | Signature | Month | Day | Year

GENERATOR'S COPY

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible]	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77620

Generator

1. Work Site Name & Address: Seven Oak, 201 Francis St, Wayne, GA 31503
   Work Site Telephone #: 912/638-0402
2. Generator Name & Address: Same
   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	D1	3,000 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Sabard / Co Operations Mgr	[illegible]	4/[illegible]

Transporters

8. Transporter #1 Name and Address: [illegible] Logistics, 1133 West Pine St, Green Cove Springs, FL 32043
   Transporter #1 Telephone #: 888 231 2001
   Date of Pick-Up Month Day Year: [illegible]

Type/Print Name & Title	Signature Required
Direct Pick	[illegible]

9. Transporter #2 Name and Address
   Transporter #2 Telephone #
   Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #:
    Onyx Pecan Row Landfill, LLC
    2995 Wetherington Lane • Valdosta, GA 31601-1109
    092-019D (MSWL)
    GA DER Permit #
    (229) 241-8440

Special Instructions

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible]	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77619

Generator

1. Work Site Name & Address	Work Site Telephone #
Cover Out [illegible]	[illegible]
2. Generator Name & Address	**Generator Telephone #**
[illegible]	[illegible]

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Wastewater	1	DT	3300 gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	[illegible]

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] [illegible] [illegible] 31601	229-563-1803	[illegible]

Type/Print Name & Title	Signature Required
	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-09[illegible]		01 - 001 - 77618

1. Work Site Name & Address Seven Oak 901 Francis St. Waycross, GA 31501	Work Site Telephone # 912-338-0102
2. Generator Name & Address Same	Generator Telephone # Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3.2[illegible] Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Bailey Bridgeman [illegible]	[illegible]	0[illegible]

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
S. Waste Logistics [illegible] Pecan Rd Green Cove Springs, FL 32043	352-281-2[illegible]	[illegible]

Type/Print Name & Title	Signature Required
Daniel Carr	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

L NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW aste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated antities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	95-01-900		01 - 001 - 77617

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5.00

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[illegible]	[illegible]

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	[illegible]	[illegible]

Type/Print Name & Title	Signature Required
Russell Pearson	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

. NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW ste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated ntities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/11/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-009		01 - 001 - 77616

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 281 Francis St, Waycross, GA 31503	912/338-0103
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rainford, Environmental Coordinator of GPA	Shane R	04/11/05

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
ASON TRANSPORT 6154 JUMPING GULLEY VALDOSTA, GA 31601	229-563-8304	04/11/05

Type/Print Name & Title	Signature Required

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

Disposal Facility

LL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated uantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Wayne GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
7	05-01 [illegible]		01 - 001 - 77615

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 201 Francis St. Waycross, GA 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste Water	1	DT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shawn Kilford, Supervisor of [illegible]	[signature]	[illegible]/07/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] [illegible] [illegible] FL 32043	[illegible]	[illegible]/07/05

Type/Print Name & Title	Signature Required
Brad Cole	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

LL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW 'aste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated uantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible]	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	04/07/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-[illegible]		01 - 001 - 77614

Generator

1. Work Site Name & Address	Work Site Telephone #
Pecan Oil 301 French St. Waycross, GA. 31501	912-338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1.	DT	5,500 gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rowland, Plant Operations Mgr	Shane Rowland	04/07/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Brown Tank Lines [illegible] Operations Co Jacksonville, FL 32220	904-693-3800	04/07/05

Type/Print Name & Title	Signature Required
Ernest Bethell	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

Generator

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / [illegible]	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	04/07/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-09		01 - 001 - 77613

1. Work Site Name & Address
   Seven Out
   201 Francis St. Waycross GA 31503

   Work Site Telephone #: 912/338-0102

2. Generator Name & Address
   Same

   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5.500

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Ambrose, Director of EPA	Shane Ambrose	04/07/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Larson Transport 6154 Tompkins Circle Valdosta, GA 31601	229-563-4203	04/07/05

Type/Print Name & Title	Signature Required

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	01/07/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-002		01 - 001 - 77612

Generator

1. Work Site Name & Address Seven Oaks 901 Francis St. Waycross, GA 31503	Work Site Telephone # 912/338-0102
2. Generator Name & Address Same	Generator Telephone # Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[signature]	01/07/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] SERVICES [illegible] TAVERNIER, FL 32[illegible]-2	904-[illegible]-9192	01/07/05

Type/Print Name & Title	Signature Required
Nicholas A. Pugliese TK	[signature] TK

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77611

Generator

1. Work Site Name & Address: Seven Oak, 201 Francis St. Waycross, GA. 31503
Work Site Telephone #: 912-338-0102

2. Generator Name & Address: Same
Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5 sec

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rafford, By Director of EPA	Shane R	04/07/05

Transporters

8. Transporter #1 Name and Address: [illegible]
Transporter #1 Telephone #: [illegible]
Date of Pick-Up Month Day Year: 04/07/05

Type/Print Name & Title	Signature Required
Buddy Horton	Buddy Horton

9. Transporter #2 Name and Address:
Transporter #2 Telephone #:
Date of Pick-Up Month Day Year:

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #
Onyx Pecan Row Landfill, LLC
2995 Wetherington Lane • Valdosta, GA 31601-1109
092-019D (MSWL)
GA DER Permit #
(229) 241-8440

Special Instructions:

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	01-009		01 - 001 - 77610

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31501	912-338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rafford, Business Mgr	[signature]	04/07/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	248-281-2001	04/07/05

Type/Print Name & Title	Signature Required
Russell Perry	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / [illegible]	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	04/06/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-209		01 - 001 - 77609

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 301 Francis St. Waycross GA 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000 Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Environmental Services, Inc. [illegible] [illegible], TN 37215	[illegible]	04/06/05

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/06/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
n/a	05-01-909		01 - 001 - 77608

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3.200

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rayford, [illegible]	Shane Rayford	04/06/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
U.S. Waste Logistics 138 Mill Pond Rd. Green Cove Springs, FL 32043	888-281-2001	04/06/05

Type/Print Name & Title	Signature Required
Daniel [illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC. 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-999		01 - 001 - 77607

Generator

1. Work Site Name & Address	Work Site Telephone #
Pecan Out 61 Francis St, Valdosta, GA 31601	912/328-0101

2. Generator Name & Address	Generator Telephone #
[illegible]	[illegible]

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	7.600 Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	04/06/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] [illegible] [illegible], FL 32043	850-321-2001	04/06/05

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77606

Generator

1. Work Site Name & Address	Work Site Telephone #
Pecan Dr 901 [illegible] St. Valdosta, GA 31603	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rabun, [illegible]	[signature]	04/06/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] 765 [illegible] Ave Tallahassee, FL 32302	[illegible]	04/06/05

Type/Print Name & Title	Signature Required
Nicholas A. Pugliese III	[signature] III

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

Generator

County & State of Origin	Municipal Solid Waste (MSW):	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
/	___ Yes ___ No	X ___ Yes ___ No	___ Yes X No	___ Yes X No	01/06/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
			01 - 001 - 77605

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 401 Francis Avenue GA 31503	912-339-6102

2. Generator Name & Address	Generator Telephone #
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	7.00 Gal

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rabun, Bid Director	[illegible]	01/06/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] [illegible] [illegible], FL [illegible]	768 281-2001	01/06/05

Type/Print Name & Title	Signature Required
Tyrell [illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01 909		01 - 001 - 77604

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Out [illegible] Francis St. Waycross GA 31503	912/338-[illegible]102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	Sewer GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rafford, Director of [illegible]	[signature]	04/06/05

Transporters

Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Jacksonville, FL 32216	[illegible]	04/06/05

Type/Print Name & Title	Signature Required
Mike [illegible]	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

Generator

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] /GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77603

1. Work Site Name & Address	Work Site Telephone #
Town Of [illegible] [illegible]	912/533-0402
2. Generator Name & Address	**Generator Telephone #**
[illegible]	[illegible]

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	[illegible]

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	[illegible]	[illegible]

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / [illegible]	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77602

Generator

1. Work Site Name & Address
   Seven Out
   901 Francis St [illegible]
   Work Site Telephone # 912538-0102

2. Generator Name & Address
   Same
   Generator Telephone # Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	TT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[illegible]	07/06/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	229-[illegible]-4603	07/06/05

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

L[illegible]N-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW aste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated iantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

Generator

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
/	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77601

1. Work Site Name & Address	Work Site Telephone #
[illegible] 901 [illegible] Waycross, GA [illegible]	912-[illegible]
2. Generator Name & Address	Generator Telephone #
None	None

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	Shane [illegible]	[illegible]

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Lawrence [illegible] Jacksonville FL 32043	888-261-2001	[illegible]

Type/Print Name & Title	Signature Required
Russell [illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
/	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	[illegible]		01 - 001 - 77600

1. Work Site Name & Address Seven Oak 901 Francis St, Waycross, GA 31501	Work Site Telephone # 912-538-0102
2. Generator Name & Address Same	Generator Telephone # Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	[illegible]

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	[illegible]

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] [illegible] [illegible], FL 32043	[illegible]	[illegible]

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
[illegible] / [illegible]	___ Yes ___ X No	X Yes ___ No	___ Yes ___ X No	___ Yes ___ X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05 01 000		01 - 001 - 77599

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000 Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane McCord, [illegible]	[illegible]	05/[illegible]/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Services [illegible] [illegible] 32502	[illegible]	[illegible]

Type/Print Name & Title	Signature Required
Nicholas A. [illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
7	05-01-509		01 - 001 - 77598

Generator

1. Work Site Name & Address: Seven Oak, 901 Francis St. Waycross, GA. 31503 — Work Site Telephone #: 912-338-0402
2. Generator Name & Address: Same — Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,200 gA

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address: US Cash Logistics, 978 Hall Park Rd, Greenville Springs, FL 32043 — Transporter #1 Telephone #: 888-281-2004 — Date of Pick-Up Month Day Year: 04/05/05

Type/Print Name & Title	Signature Required
Donald Cook	[signature]

9. Transporter #2 Name and Address — Transporter #2 Telephone # — Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #: Onyx Pecan Row Landfill, LLC, 2995 Wetherington Lane • Valdosta, GA 31601-1109; 092-019D (MSWL) GA DER Permit #; (229) 241-8440 — Special Instructions

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Wa[illegible] /GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	03-01-909		01 - 001 - 77597

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) *does not contain regulated quantities of Hazardous Waste*; and (b) *is* Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[signature]	01/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Transportation [illegible] Drive, Inc. [illegible] 57770	904-[illegible]-7200	01/05/05

Type/Print Name & Title	Signature Required
[illegible]	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77596

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5.500

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
X Shane Rafford, [illegible] of FA	[illegible]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Banner Transportation North Pineville Rd Jacksonville, NC 28220	404-673-3800	04/05/05

Type/Print Name & Title	Signature Required
Jerrell B Sugar	Jerrell B Sugar

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
/	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	[illegible]	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77594

Generator

1. Work Site Name & Address: Seven Oaks, 901 Francis St. Waycross, GA. 31503 — Work Site Telephone #: 912-353-0102
2. Generator Name & Address: Same — Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste Water	1	DT	5,500

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	[illegible] /05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Lane Transport, 6154 Twin Pine Gulley, Valdosta, GA 31601	229-563-4803	01/05/05

Type/Print Name & Title	Signature Required
[illegible]	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	___ Yes ___ No	09/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-61 009		01 - 001 - 77595

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31503	912/338-6302
2. Generator Name & Address	**Generator Telephone #**
State	State

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,600 Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Raiford, Div. Mgr.	[signature]	09/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	888-281-2001	09/05/05

Type/Print Name & Title	Signature Required
Russell Finley	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No		

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	65-01-909		01 - 001 - 77593

Generator

1. Work Site Name & Address
Seven Out
901 Francis St. Waycross, GA. 31501

Work Site Telephone #
912/338-0102

2. Generator Name & Address
Same

Generator Telephone #
Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	D1	5,500

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Walton, Operations Mgr	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Environmental Emergency Services 7150 Tallyrand Ave. Jacksonville, FL 32202	904.741.5952	04/05/05

Type/Print Name & Title	Signature Required
Nicholas R. Pallese III	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77592

Generator

1. Work Site Name & Address: Seven Out, 901 Francis St. Waycross, GA. 31503
   Work Site Telephone #: 912 338-0102
2. Generator Name & Address: Same
   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,500 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rainford, By Direct [illegible]	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Savannah Transports, Inc. 1[illegible] Pineneville Rd. Jacksonville, FL 32220	904-693-3800	04/05/05

Type/Print Name & Title	Signature Required
Ernest Bethell	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77591

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3.2 ss

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rainford, Dy Director of EPA	Shane Rainford	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
U.S. Waste Services 132 Mill Creek Rd. Green Cove Springs, FL 32043	800-281-2001	04/05/05

Type/Print Name & Title	Signature Required
Trail Cart	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-939		01 - 001 - 77590

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Out 901 Francis St. Waycross, GA. 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,000 GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
AS WASTE LOGISTICS 133 [illegible] ROAD [illegible] SPRINGS, FL 32043	386-721-2641	04/05/05

Type/Print Name & Title	Signature Required
Russell Perry	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware /GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77589

Generator

1. Work Site Name & Address: Seven Out, 901 Francis St. Waycross, GA. 31503
   Work Site Telephone #: 912/338-0402
2. Generator Name & Address: Same
   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rainford, B. Director SEPA	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Southeast Transport, Inc. 1 Dickinson Rd. Jacksonville, FL 32220	904-693-3200	04/05/05

Type/Print Name & Title	Signature Required
[illegible]	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

Generator

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/06/06	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77588

1. Work Site Name & Address	Work Site Telephone #
Seven Out 901 Francis St. Waycross, GA 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
[illegible]	[illegible]	[illegible]

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Barrett Transport [illegible] Dunn Creek Rd. Jacksonville, FL 32220	(904) 693-3200	04/06/06

Type/Print Name & Title	Signature Required
Jerrell B Sugar	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
632 / 2175	05-01-909		01 - 001 - 77587

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Out 901 Francis St. Waycross, GA. 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Barnett Transport [illegible] Rd. Jacksonville, FL 32226	904.643.3600	04/05/05
Type/Print Name & Title	**Signature Required**	
Ernest Rivel	[illegible]	

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year
Type/Print Name & Title	**Signature Required**	

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-009		01 - 001 - 77586

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rayford, Foreman of EPA	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] TRANSPORT [illegible] TRANSFER STATION VALDOSTA, GA 31601	229-563-4863	04/05/05

Type/Print Name & Title	Signature Required

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77585

Generator

1. Work Site Name & Address
Seven Oak
901 Francis St. Waycross, GA. 31503

Work Site Telephone #
912/338-0102

2. Generator Name & Address
Same

Generator Telephone #
Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Basford, By Direct. of EPA	[signature]	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Environmental Remediation Services 760 Talleyrand Ave Jacksonville, FL 32202	904-791-9992	04/05/05

Type/Print Name & Title	Signature Required
Nicholas A. Pulice III	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/05/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77584

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0102
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3.200

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Raiford, By Direction of EPA	Shane R	04/05/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	888-251-2001	04/05/05
Type/Print Name & Title	**Signature Required**	
Pecan Creek	[illegible]	

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year
Type/Print Name & Title	**Signature Required**	

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware /GA.	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/04/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-009		01 - 001 - 77583

Generator

1. Work Site Name & Address: Seven Out, 901 Francis St. Waycross, GA. 31503
   Work Site Telephone #: 912/338-0402
2. Generator Name & Address: Same
   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3600 GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rainford, Bill Accounting Est	[signature]	04/04/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible] Logistics, 937 Mark Park Rd., Greenville Springs, FL 32043	888-281-2001	04/04/05

Type/Print Name & Title	Signature Required
Russell Perry	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #
    Onyx Pecan Row Landfill, LLC
    2995 Wetherington Lane • Valdosta, GA 31601-1109
    092-019D (MSWL)
    GA DER Permit #
    (229) 241-8440

Special Instructions

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	01/04/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77582

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Out 901 Francis St. Waycross, GA. 31503	912-338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000 GAL.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane [illegible]	[signature]	01/04/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Environmental [illegible] Services	404-791-1992	01/04/05

Type/Print Name & Title	Signature Required
Nicholas A. Pugliese	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes ___ X No	X Yes ___ No	___ Yes ___ X No	___ Yes ___ X No	04/04/05	

Vehicle Lic # or Cont. ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-009		01 - 001 - 77581

Generator

1. Work Site Name & Address Seven One 901 Francis St. Waycross, GA. 31503	Work Site Telephone # 912-338-0402
2. Generator Name & Address Same	Generator Telephone # Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,000 Gal

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Steve Pulcel, [illegible]	[signature]	04 04/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
Cross Transport	229-561-4803	04/04/05

Type/Print Name & Title	Signature Required
[illegible]	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	4/4/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-002		01 - 001 - 77580

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,200 GAL

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Raiford, Big Diversion Ind	Shane	04/01/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
US Waste Logistics 138 Hall Park Rd Greenville Springs, FL 32043	888-271-7001	04/01/05

Type/Print Name & Title	Signature Required
Pinel Cole	[illegible]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware / GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/04/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-909		01 - 001 - 77579

Generator

1. Work Site Name & Address: Seven Oak, 901 Francis St. Waycross, GA. 31503
   Work Site Telephone #: 912/338-0402
2. Generator Name & Address: Same
   Generator Telephone #: Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	3,200 Gal

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Raiford, Production	Shane Raiford	04 04 05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
U.S. [illegible] 158 Hall Park Rd. Green Cove Springs, FL 32043	888-281 7001	04/04/05

Type/Print Name & Title	Signature Required
Derek Cole	T/C

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #
    Onyx Pecan Row Landfill, LLC
    2995 Wetherington Lane • Valdosta, GA 31601-1109
    092-019D (MSWL)
    GA DER Permit #
    (229) 241-8440

Special Instructions

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. JL-614	2. Page 1 of	*Environmental Outsource* Post Office Box 715 Round O, SC 29474 Office 843-542-9081 Fax 843-542-9083
3. Generator's Name and Mailing Address SINEN OUT 701 FRANCIS MP JACKSONVILLE, GA. 31503 4. Generator's Phone (912) 332-0402			
5. Transporter 1 Company Name ENVIRONMENTAL DECONTAMINATION SERVICES	6. US EPA ID Number		A. Transporter's Phone 904-791-9962
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description WASTE RECOVERY INCORPORATED 1919 ALBERT ST. JACKSONVILLE, FL 32207	10. US EPA ID Number		C. Facility's Phone 904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE # 904-241-2220
BILL TO: ENVIRONMENTAL OUTSOURCE LLC
P.O. BOX 715 PHONE 843-542-9081
ROUND O, SC 29474 FAX 843-536-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Bacon, Authorized Agent	[signature]	04	04	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Nicholas A. Ivelise	[signature]	04	04	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

TANK CLEAN

1. Generator's US EPA ID No.	Manifest Doc. No. 36013	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEVEN CO [illegible] [illegible] 4. Generator's Phone ( ) [illegible]			
5. Transporter 1 Company Name [illegible] TRANSPORT	6. US EPA ID Number		A. Transporter's Phone 227-561-4603
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description [illegible] INDUSTRIES [illegible] [illegible], FL 32202	10. US EPA ID Number		C. Facility's Phone 904-[illegible]-6320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
NON HAZARDOUS NON REGULATED INDUSTRIAL CONTAINER				
a.	001	TT	5,500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT 904-241-2700

BILL TO: ENVIRONMENTAL OUTSOURCE LLC
P.O. BOX 715 PHONE 843-542-9081
ROUND O, SC 29474 FAX 843-542-9083

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
X Shane Bullock by [illegible]	[signature]	05	01	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Raymond V Cramer	[signature]	01	01	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	04/02/05	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
	05-01-009		01 - 001 - 77578

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oat 901 Francis St. Waycross, GA. 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5,500 Gal.

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Rolfe, by Direct [illegible]	[signature]	04 02 05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
[illegible]	[illegible]	04/02/2005

Type/Print Name & Title	Signature Required
Kimmon K. Gramel	[signature]

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

ONYX PECAN ROW LANDFILL, LLC

ONYX

WASTE MANIFEST

County & State of Origin	Municipal Solid Waste (MSW)	Non-MSW	Non-Friable Asbestos	Friable Asbestos	Date Loaded	Date Delivered
Ware GA	___ Yes X No	X Yes ___ No	___ Yes X No	___ Yes X No	01/.../2005	

Vehicle Lic # or Cont ID #	Waste Acceptance Form #	Total Tare Weight	Manifest #
[illegible]	05-01 909		01 - 001 - 77577

Generator

1. Work Site Name & Address	Work Site Telephone #
Seven Oak 901 Francis St. Waycross, GA. 31503	912/338-0402
2. Generator Name & Address	**Generator Telephone #**
Same	Same

3. Description of Materials	4. Containers Number	Type	5. Total Tons
Non-Hazardous Non-Regulated Waste water	1	DT	5.000 Gal

6. Special Handling Instructions/Additional Information

7. Generator's Certification: Generator hereby certifies that the waste material loaded and transported: (a) does not contain regulated quantities of Hazardous Waste; and (b) is Municipal Solid Waste or Non-MSW Waste, as defined on the reverse side.

Type/Print Name & Title	Signature Required	Month Day Year
Shane Ingland, Environmental [illegible]	[signature]	01/01/05

Transporters

8. Transporter #1 Name and Address	Transporter #1 Telephone #	Date of Pick-Up Month Day Year
LAND TRANSPORT [illegible] VALDOSTA, GA 31601	229-241-1003	01/01/05

Type/Print Name & Title	Signature Required

9. Transporter #2 Name and Address	Transporter #2 Telephone #	Date of Pick-Up Month Day Year

Type/Print Name & Title	Signature Required

Disposal Facility

10. Disposal Facility Name, Address & Telephone #	Special Instructions
Onyx Pecan Row Landfill, LLC 2995 Wetherington Lane • Valdosta, GA 31601-1109 092-019D (MSWL) GA DER Permit # (229) 241-8440	

Type/Print Name	Signature Required	Disposal Date Month Day Year

ALL NON-MSW TRANSPORTED FOR DISPOSAL MUST BE ACCOMPANIED BY: (a) this manifest; (b) a non-MSW Waste Acceptance Form; and (c) a Certification thereof. No waste will be accepted for disposal if it contains regulated quantities of Hazardous Waste.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 3601	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEVEN OAK 101 FRANKS STR. WAYCROSS, GA 31503 4. Generator's Phone (912) 338-0402			
5. Transporter 1 Company Name ENVIRONMENTAL REMEDIATION SERVICES	6. US EPA ID Number		A. Transporter's Phone 904-791-9992
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description CHESTER COUNTY ROAD LANDFILL, INC. P.O. BOX 175 LUMBERTON, GA 37537	10. US EPA ID Number		C. Facility's Phone 912-496-7918

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS, NON REGULATED WASTE (LIQUID)	001	TT	5,000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE #: (904) 241-7200

BILL TO: ENVIRONMENTAL OUTSOURCE, LLC
P.O. BOX 715 PHONE 843-533-0525
ROUND O, SC 29474 843-533-1025

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
SHANE [illegible]	[signature]	04	01	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Nicholas A. Pugliese	[signature]	04	01	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. JG-010	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEUSN CNI 101 FRANKLIN STR JAMICRENS, GA 31503 4. Generator's Phone (912) 338-0402			
5. Transporter 1 Company Name BARNETT TRANSPORT	6. US EPA ID Number		A. Transporter's Phone 704-693-3600
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description CHEROKEE SANITARY LANDFILL, INC. 10 MILES SW PELHAM P.O. BOX 178 PELHAM, GA 31779	10. US EPA ID Number		C. Facility's Phone 912-496-7918

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS NON REGULATED WASTE (LIQUID)	001	TT	5,500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE # (904) 241-2200

BILL TO: ENVIRONMENTAL OUTSOURCE LLC

P.O. BOX 715 PHONE 843-536-6585

ROUND O, SC 29474 FAX 843-538-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Rodgers	[signature]	04	01	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Jerrell B Sugar	[signature]	4	1	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
WALPARS, GA 31503

4. Generator's Phone (912) 238-0402

5. Transporter 1 Company Name
BARNES TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 3 1 8 6 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1319 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 9 0 6 2

C. Facility's Phone
904-478-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		T 3	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Time In _____ Time out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1028

WRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Raines	[signature]	03	01	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Jerrell B Sugar	[signature]	03	01	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

7/20/2005

3. Generator's Name and Mailing Address
SEARS LLC
901 FRANCIS ST.
WAYCROSS, GA 31501

4. Generator's Phone (912) 338-0402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 3 1 8 6 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1919 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 9 0 6 2

C. Facility's Phone
904-476-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		TT	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
PH ____ SOLIDS ____ OIL ____
Time in ____ Time out ____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1028
WRI Approval # ____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: Shane Rifero By Direction of EPA
Signature
Month 07 Day 21 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: JEAN GERMAIN
Signature
Month 07 Day 21 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 36-012	2. Page 1 of	*Environmental Outsource* Post Office Box 715 Round O, SC 29474 Office 843-542-9081 Fax 843-542-9083
3. Generator's Name and Mailing Address [illegible] 4. Generator's Phone (912) 338-0462			
5. Transporter 1 Company Name: Florida Industrial Compliance Corporation	6. US EPA ID Number		A. Transporter's Phone: 904-771-2759
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description	10. US EPA ID Number		C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Industrial Wastewater	001	TT	5,000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 Hour Contact Phone # 904-741-2200
Bill to: Environmental Outsource
P.O. Box 715 Phone: 843-542-9081
Round O, SC 29474 Fax: 843-542-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Rainford, by Direction of EPA	[signature]	04	01	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
[illegible]				

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 287-8400

5. Transporter 1 Company Name
BARNHILL TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 4 3 1 8 6 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1919 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 9 0 6 2

C. Facility's Phone
904-475-3320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS PRODUCED WATER/OIL		TT	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
PO [illegible]
Time In _____ Time Out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1028
WKI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Bulow & [illegible]	[illegible]	[illegible]	[illegible]	[illegible]

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
ERNEST RIGHILL	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR → TRANSPORTER → FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address
SEVEN [illegible]
901 FRANCIS ST.
WAYCROSS, GA 31501
4. Generator's Phone (912) 339-0402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L R 3 9 3 1 0 0 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32207

10. US EPA ID Number
F L 2 0 0 0 9 6 9 0 6 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		T T	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
PO # [illegible]
Time In _____ Time out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715
Round O, SC 29474
Ph 843-538-6505
Fax 843-538-1028
WRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: SHANE RAIFORD, B. Director of OP
Signature
Month 04 Day 01 Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Shane Raiford, Operations Director
Signature
Month Day Year

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 36 009	2. Page 1 of 1	*Environmental Outsource* Post Office Box 715 Round O, SC 29474 Office 843-542-9081 Fax 843-542-9083
3. Generator's Name and Mailing Address SEVEN OUT 761 FRANCIS STR. LOMPOC, CA 93463 4. Generator's Phone (312) 332-6962			
5. Transporter 1 Company Name EASON TRANSPORT	6. US EPA ID Number		A. Transporter's Phone 229-561-4803
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description WATER RECOVERY, INC. 1539 HUBERT STR. JACKSONVILLE, FL 32207	10. US EPA ID Number		C. Facility's Phone 904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5,500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24-HOUR CONTACT PHONE (904) 241-2200

BILL TO: ENVIRONMENTAL OUTSOURCE
P.O. BOX 715 PH 843-538-6585
ROUND O, SC 29474 FAX 843-538-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
[illegible]	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
[illegible]	[signature]	04	01	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/20/2005

3. Generator's Name and Mailing Address
301 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 283-4402

5. Transporter 1 Company Name
BRENNER TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 3 1 8 6 1 1 3

A. Transporter's Phone
(904) 375-7100

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1219 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 6 9 0 6 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		T	55	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
pH ___ Solids ___ Oil ___
Time In ___ Time out ___

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715
Round O, SC 29474
Ph 843-538-6585
Fax 843-538-1028
WRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name: [illegible]
Signature: [illegible]
Month 03 Day [illegible] Year 05

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: JEAN GEKMAN
Signature: [illegible]
Month 03 Day 21 Year 05

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name
Signature
Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name
Signature
Month Day Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

5. Generator's Name and Mailing Address
SEVEN OUT
901 FRANCIS ST.
WAYCROSS, GA 31503
Generator's Phone (912) 283-0902

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 3 1 8 6 4 1

A. Transporter's Phone
(904)693-3800

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1619 ALBERT ST.
JACKSONVILLE, FL 32206

10. US EPA ID Number
F L R 0 0 0 0 3 9 3 6 2

C. Facility's Phone
904-476-9320

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
non hazardous industrial wastewater		TT	5500	G

D. Additional Descriptions for Materials Listed Above
pH ____ Solids ____ Oil ____
Time In ____ Time out ____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2600
Bill to: Environmental Outsource LLC
P.O. Box 715
Round O, SC 29474
Ph 843-538-6605
Fax 843-538-1028
WRI Approval # ____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Lafay / Brian [illegible]	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Darrell B Sugar	[signature]	3	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
GAINESVILLE, GA 30503

4. Generator's Phone (912) 536-[illegible]

5. Transporter 1 Company Name
BAUERLE TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 3 1 3 8 4 1 2

A. Transporter's Phone
[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 5 9 6 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Liquid in Containers		T T	6000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Time In _____ Time out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715
Ronald O, SC 29474
Ph 843-538-6585
Fax 843-538-1028
NRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Steve Rabon, by [illegible]	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

4/28/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 338-0402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L D Y 0 3 1 9 6 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 6 9 0 9 3 2

C. Facility's Phone
904-475-0320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	TB	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Time In _____ Time out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715
Round O, SC 29474
Ph 843-538-8685
Fax 843-538-1028
WRI Approval # _____

16. **GENERATOR'S CERTIFICATION:** I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane [illegible]	[signature]	04	27	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
Buddy Horton	Buddy Horton	3	3	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/29/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
WAYCROSS, GA 31501

4. Generator's Phone (912) 338-[illegible]

5. Transporter 1 Company Name
BURNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L D 9 8 2 1 3 2 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 9 0 6 2

C. Facility's Phone
904-475-9520

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non Hazardous Industrial Wastewater		T T	[illegible]	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Time In _____ Time Out _____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1026

WRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Ragan, by [illegible] of EPA	Shane Ragan	03	29	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/20/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
WAYCROSS, GA 31503

4. Generator's Phone (912) 558-0407

5. Transporter 1 Company Name: ENVIRONMENTAL SVC.

6. A. T. D. US EPA ID Number

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 6 9 0 5 2

C. Facility's Phone
904-475-3320

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		J	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Dime in Zinc out.

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-6505
Round O, SC 29474 Fax 843-538-1028
WRI Approval # _____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Rogers, Supervisor of R&D		03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/26/2005

3. Generator's Name and Mailing Address
901 FRANCIS ST.
BARCLOOS, GA 31503

4. Generator's Phone (912) 538-0430

5. Transporter 1 Company Name
BARNETT TRANSPORTATION INC.

6. US EPA ID Number
A E R 0 0 0 5 1 0 6 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 6 0 0 6 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description

	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Non hazardous commercial wastewater		TT	6000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above

Time In ____ Time out ____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2209
Bill to: Environmental Outsource LLC
P.O. Box 745 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1028
WRI Approval # ____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible]	[signature]	03	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/25/2005

3. Generator's Name and Mailing Address
BEAN OIL
301 FRANCIS ST.
NAVCROSS, GA 31502

4. Generator's Phone (912) 330-0402

5. Transporter 1 Company Name
BARNETT TRANSPORTATION, INC.

6. US EPA ID Number
A L U 9 8 3 1 0 9 4 1 2

A. Transporter's Phone

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 6 9 0 6 2

C. Facility's Phone
904-475-5320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		TB	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
OR ____ SOILS ____ OIL ____

Time In ____ Time out ____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 716 Ph 843-538-6585
Round O, SC 29474 Fax 843-538-1028

WRI Approval # ____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Rayford, Dir. of OPS		03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
JEAN GERMAIN		3	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.

Manifest Document No.

2. Page 1 of

3/28/2005

3. Generator's Name and Mailing Address
[illegible]
[illegible]
4. Generator's Phone (912) [illegible]

5. Transporter 1 Company Name
[illegible] TRANSPORTATION, INC.

6. US EPA ID Number
A 3 0 2 8 3 3 0 5 4 1 3

A. Transporter's Phone
[illegible]

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
WATER RECOVERY INCORPORATED
1819 ALBERT ST.
JACKSONVILLE, FL 32202

10. US EPA ID Number
F L R 0 0 0 0 3 9 0 5 2

C. Facility's Phone
904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. non hazardous industrial wastewater		T L	5500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above
Oil ____ Solids ____ Oil ____
Time In ____ Time out ____

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone # (904) 241-2200
Bill to: Environmental Outsource LLC
P.O. Box 315
Round O, SC 29474
Ph 843-538-6585
Fax 843-538-1028
WRI Approval # ____

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Month	Day	Year
Shane Bailey, Sr. Environmental Coordinator	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year
[illegible] Detail	[signature]	[illegible]	[illegible]	[illegible]

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Month	Day	Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Month	Day	Year

GENERATOR

TRANSPORTER

FACILITY

GENERATOR'S COPY

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 16-008	2. Page 1 of	*Environmental Outsource* ***Post Office Box 715*** ***Round O, SC 29474*** ***Office 843-542-9081*** ***Fax 843-542-9083***
3. Generator's Name and Mailing Address SEVEN CUT 701 FRANKLIN STR WAYCROSS GA 31503 4. Generator's Phone (912) 335-0402			
5. Transporter 1 Company Name ENVIRONMENTAL REMEDIATION SERVICES	6. US EPA ID Number		A. Transporter's Phone (904) 751-9092
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description WATER RECOVERY INC. 1617 ALGERIA STR JACKSONVILLE, FL 32227	10. US EPA ID Number		C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5,000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR OPERATOR PHONE #1 (904) 241-2200

BILL TO: ENVIRONMENTAL OUTSOURCE LLC
P.O. BOX 715 PH 843-542-9085
ROUND O, SC 29474 FAX 843-542-1026

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
SHANE RAIFORD BY DIRECTION OF EPA	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Nicholas Peyton TM	[signature] TM	03	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No.	2. Page 1 of 1	Environmental Outsource Post Office Box 715 Round O, SC 29474 Office 843-542-9081 Fax 843-542-9083
3. Generator's Name and Mailing Address [illegible] [illegible] STR. JACKSONVILLE, FL 32[illegible] 4. Generator's Phone ([illegible]) [illegible]			
5. Transporter 1 Company Name US WASTE LOGISTICS [illegible]	6. US EPA ID Number FLR000[illegible]		A. Transporter's Phone [illegible]
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description WATER RECOVERY INC. [illegible] ALBERT STR. JACKSONVILLE, FL 32202	10. US EPA ID Number FLR000[illegible]		C. Facility's Phone 904-[illegible]-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS INDUSTRIAL WASTEWATER	001	VT	3200	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 Hour Contact Phone # (904) 741-2200
Call to: Environmental Outsource LLC
P.O. Box 715 Phone 843-938-6565
Round O, SC 29474 Fax 843-538-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Earle [illegible]	[illegible]	03	21	15

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Jonel Clark	[illegible]	03	21	15

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 10-006	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEGRA CO 901 FRANKLIN ST. LAWRENCE, GA 30503 4. Generator's Phone (712) 338-0102			
5. Transporter 1 Company Name LASON TRANSPORT	6. US EPA ID Number		A. Transporter's Phone 229-561-4503
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description RECOVERY INC. 1019 ALBERT STR. JACKSONVILLE, FL 32207	10. US EPA ID Number		C. Facility's Phone 904-475-9320

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON-HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5,500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Kinard, Director of OPA	[signature]	05	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 76-505	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEVEN CUT 701 FRANCIS STR. JACKSONVILLE, GA. 31503 4. Generator's Phone (912) 338-0102			
5. Transporter 1 Company Name CASON TRANSPORT	6. US EPA ID Number		A. Transporter's Phone 229-561-4603
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description [illegible], INC. 1614 ALBERT STR. JACKSONVILLE, FL. 32202	10. US EPA ID Number		C. Facility's Phone 904-475-9220

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5,500	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE 904-241-2200

BILL TO: ENVIRONMENTAL OUTSOURCE LLC
PO BOX 715, PH 843-575-6585
ROUND O, SC 29474 FAX 843-575-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Ballard for Deborah [illegible]	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 16-004	2. Page 1 of	Environmental Outsource Post Office Box 715 Round O, SC 29474 Office 843-542-9081 Fax 843-542-9083
3. Generator's Name and Mailing Address SEVEN CUT 901 FRANCIS STR. WAYCROSS, GA, 31503 4. Generator's Phone (912) 338-0412			
5. Transporter 1 Company Name ENVIRONMENTAL REMEDIATION SERVICES	6. US EPA ID Number		A. Transporter's Phone 404-793-9992
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description	10. US EPA ID Number		C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	5,000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
24 Hour Contact Phone (904) 710-7200
Bill To: Environmental Outsource LLC
P.O. Box 715 Ph 843-538-0585
Round O, SC 29474 Fax 843-538-1028

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Rolfes, by Direct of Ops		03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Nicholas A. Pugliese	Nicholas A. Pugliese	3	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 30-003	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address Sinus Corp 401 Gaskins St. Jacksonville, GA 31543 4. Generator's Phone (912) 338-0462			
5. Transporter 1 Company Name U.S. Waste Services Inc	6. US EPA ID Number TN [illegible]		A. Transporter's Phone 888-281-2001
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description Water Recovery Incorporated 1314 Alegat Stp. Jacksonville, FL 32232	10. US EPA ID Number FLD [illegible]		C. Facility's Phone 904-475-9729

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	7	3200	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 Hour Contact Phone # (904/241-2260)
Bill to: Environmental Outsource
P.O. Box 715 Ph 843-533-1585
Round O, SC 29474

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Baird by Dennis Epps	[signature]	03	31	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
[illegible]	[signature]	03	31	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 36-002	2. Page 1 of	*Environmental Outsource* ***Post Office Box 715*** ***Round O, SC 29474*** ***Office 843-542-9081*** ***Fax 843-542-9083***
3. Generator's Name and Mailing Address SPLIT CUT 401 FRANCIS STR. JONESBORO, GA 31503 4. Generator's Phone (912) 336-0462			
5. Transporter 1 Company Name ENVIRONMENTAL REMEDIATION SERVICES	6. US EPA ID Number		A. Transporter's Phone (404) 791-4992
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description	10. US EPA ID Number		C. Facility's Phone

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER		TT	5000	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE (404) 241-2200

SEND TO: ENVIRONMENTAL OUTSOURCE LLC
P.O. BOX 715 PHONE 843.538.6585
ROUND O, SC 29474 FAX 843-538-1076

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Rodney Spivey	[signature]	05	30	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Nicholas A. Galiere TU	[signature]	63	30	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.	Manifest Doc. No. 76-001	2. Page 1 of	*Environmental Outsource* *Post Office Box 715* *Round O, SC 29474* *Office 843-542-9081* *Fax 843-542-9083*
3. Generator's Name and Mailing Address SEWN OUT 701 FRANCIS ST. LAWRENCE, GA. 4. Generator's Phone ( )			
5. Transporter 1 Company Name U.S. [illegible] LOGISTICS, INC	6. US EPA ID Number FL [illegible]		A. Transporter's Phone 980-251-7001
7. Transporter 2 Company Name	8. US EPA ID Number		B. Transporter's Phone
9. Designated Facility Name and Description [illegible] RECOVERY INC. 1619 ALGIER STR. JACKSONVILLE, FL 32202	10. US EPA ID Number FLR [illegible]		C. Facility's Phone 904-475-[illegible]

11. Waste Shipping Name and Description	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. NON HAZARDOUS INDUSTRIAL WASTEWATER	001	TT	3200	G
b.				
c.				
d.				

D. Additional Descriptions for Materials Listed Above	E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

24 HOUR CONTACT PHONE # 904-241-2200

DELIVER TO: ENVIRONMENTAL OUTSOURCE LLC
P.O. BOX 715 PH: 843-538-[illegible]
ROUND O, SC 29474 FAX: 843-538-1025

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name	Signature	Mo.	Day	Yr.
Shane Karl [illegible]	[illegible]	03	30	05

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.
Jesse Cook	[illegible]	03	30	05

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Mo.	Day	Yr.

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name	Signature	Mo.	Day	Yr.

	A	B	C	D	E	F	G	I	J	L
1						**Waste Generation Report**				
2						***7 Out Site***				
3						**U.S. EPA Region IV**				
4						**ERRS Contract No. 68-S4-02-06**				
5						**Task Order No. F4-0032**				
6	**Contractor:**		**Environmental Outsource**							
7	**Totals**			**1650.00**	**Gallons**					[redacted]
8	**Manifest Number**	**# of Lds**	**Date Shipped**	**Volume**	**Units**	**Chemical**	**Method of Disposal**	**Disposal Facility**	**T & D Cost per Gallon**	**Total Amount**
9	001	1	6-9-05	1100.00	Gallons	Waste Corrosive Liquid, Acidic,Inorganic, NOS	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
10			6-9-05	275.00	Gallons	Waste Corrosive Liquid, Caustic, Inorganic, NOS	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
11			6-9-05	55.00	Gallons	Potassium Permanganate, Solid	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
12			6-9-05	55.00	Gallons	Sodium Bisulfite Aqueous Solution, NOS	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
13	002		6-9-05	55.00	Gallons	Hydrogen Peroxide Aqueous Solution, 40% / 60%	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
14			6-9-05	110.00	Gallons	Oxidizing Liquid, NOS	Destruction	Clean Harbors, Baltimore, MD	[redacted]	[redacted]
15										$ -
16										$ -
17										$ -
18										$ -
19	**Total Loads**	**1**	**Total Volume**	**1650.00**	Gallons				**Total T&D**	$ [redacted]
20										
21										

Waste Generation Report
7 Out Site
U.S. EPA Region IV
ERRS Contract No. 68-S4-02-06
Task Order No. F4-0032

Contractor: Environmental Outsource

Manifest Number	# of Lds	Date Shipped	Volume	Units	Chemical	Method of Disposal	Disposal Facility	Disposal Cost / Gal	Trans. Cost / Load	Total Amount
Totals			140600.00							$
02-SO	1	3/30/05	6000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
03-SO	1	3/30/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
04-SO	1	3/30/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
05-SO	1	3/30/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-001	1	3/30/05	3200.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-002	1	3/30/05	5000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-003	1	3/31/05	3200.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-004	1	3/31/05	5000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-005	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-006	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-007	1	3/31/05	3200.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-008	1	3/31/05	5000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
06-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
07-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
08-SO	1	3/31/05	6000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
09-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
10-SO	1	3/31/05	6000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
11-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
12-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
13-SO	1	3/31/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-009	1	4/01/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
14-SO	1	4/01/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-12	1	4/01/05	5000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
16-SO	1	4/01/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
17-SO	1	4/01/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-013	1	4/04/05	5500.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
JG-014	1	4/04/05	5000.00	Gallons	Non RCRA Regulated Liquids	Waste Water Treatment	RWI, Jax, FL			
Total Loads	27	Total Volume	140600.00							

	A	B	C	D	E	F	G	I	J	K	L
1						**Waste Generation Report**					
2						**7 Out Site**					
3						**U.S. EPA Region IV**					
4						**ERRS Contract No. 68-S4-02-06**					
5						**Task Order No. F4-0032**					
6	**Contractor:**		**Environmental Outsource**								
7	**Totals**			**196500.00**							[redacted]
8	**Manifest Number**	**# of Lds**	**Date Shipped**	**Volume**	**Units**	**Chemical**	**Method of Disposal**	**Disposal Facility**	**Disposal Cost /**	**Trans. Cost / Load**	**Total Amount**
41	77609	1	4/06/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
42	77610	1	4/07/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
43	77611	1	4/07/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
44	77612	1	4/07/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
45	77613	1	4/07/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
46	77614	1	4/07/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
47	77615	1	4/07/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
48	77616	1	4/11/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$ [redacted]		[redacted]
49	77617	1	4/11/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
50	77618	1	4/11/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
51	77619	1	4/11/05	3800.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
52	77620	1	4/11/05	3000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	[redacted]		[redacted]
53											$ -
54											$ -
55	**Total Loads**	**44**	**Total Volume**	**191500.00**						**Total T&D**	$ [redacted]
56											
57											

	A	B	C	D	E	F	G	I	J	K	L
1	Waste Generation Report										
2	7 Out Site										
3	U.S. EPA Region IV										
4	ERRS Contract No. 68-S4-02-06										
5	Task Order No. F4-0032										
6	Contractor:	Environmental Outsource									
7	Totals			196500.00							$
8	Manifest Number	# of Lds	Date Shipped	Volume	Units	Chemical	Method of Disposal	Disposal Facility	Disposal Cost /	Trans. Cost / Load	Total Amount
9	77577	1	4/01/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
10	77578	1	4/02/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
11	77579	1	4/04/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
12	77580	1	4/04/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
13	77581	1	4/04/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
14	77582	1	4/04/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
15	77583	1	4/05/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
16	77584	1	4/05/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
17	77485	1	4/05/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
18	77586	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
19	77587	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
20	77588	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
21	77589	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
22	77590	1	4/05/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
23	77591	1	4/05/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
24	77592	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
25	77593	1	4/05/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
26	77594	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA	$		
27	77595	1	4/05/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
28	77596	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
29	77597	1	4/05/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
30	77598	1	4/05/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
31	77599	1	4/06/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
32	77600	1	4/06/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
33	77601	1	4/06/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
34	77602	1	4/06/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
35	77603	1	4/06/05	5500.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
36	77604	1	4/06/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
37	77605	1	4/06/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
38	77606	1	4/06/05	5000.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
39	77607	1	4/06/05	3600.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			
40	77608	1	4/06/05	3200.00	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Pecan Row, Valdosta, GA			

	A	B	C	D	E	F	G	I	J	K	L
1						**Waste Generation Report**					
2						**7 Out Site**					
3						**U.S. EPA Region IV**					
4						**ERRS Contract No. 68-S4-02-06**					
5						**Task Order No. F4-0032**					
6	**Contractor:**		**Environmental Outsource**								
7	**Totals**			**10500.00**							**$ 3,065.00**
8	***Manifest Number***	***# of Lds***	**Date Shipped**	**Volume**	**Units**	**Chemical**	**Method of Disposal**	**Disposal Facility**	**Disposal Cost /**	**Trans. Cost / Load**	**Total Amount**
9	**JG-010**	**1**	4/01/05	**5500.00**	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Chesser Island, GA	[redacted]		[redacted]
10	**JG-011**	**1**	4/01/05	**5000.00**	Gallons	Non RCRA Regulated Liquids	Landfill / Solidification	Chesser Island, GA	[redacted]		$ [redacted]
11											$ -
12											$ -
13	**Total Loads**	**2**	**Total Volume**	**10500.00**						**Total T&D**	$ [redacted]
14											
15											

Summary Page for Seven Out Trans & Disposal			
	Total Loads	Total Volume/Gallons	Total Cost
Chesser	2	10500	$
Onyx	44	191500	$
RWI	27	134600	$
Clean Harbors HAZ-WASTE	1	1650	$
Totals	74 Loads	338250 Gallons	$

Reference 33

SOLVENT HISTORY.COM

The purposes of this page are:

- to provide and compile information on the history of chlorinated solvent usage, primarily in the US, but also in other countries as time and resources permit. For information on other synthetic organic solvents and petroleum distillates, please see www.chemicalhistory.com.
- to provide a list of sources to other resources on the history of chlorinated solvent use.
- to provide a forum for discussion on issues related to chlorinated solvent usage. Information of interest submitted by contributors will be included in the page as time and resources permit. Send mail to information@solventhistory.com

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CARBON TETRACHLORIDE

The first chlorinated solvent to come into general use, carbon tetrachloride (CTC) was imported from Germany into the US as early as 1898. Under the trade name Carbona, it became an enormously popular dry cleaning and spot removing agent. CTC was produced in the US in significant quantities by Dow Chemical Company and Warner Chemical shortly after the turn of the century.

CTC's first widespread uses were as a household cleaning agent and a fire extinguishing fluid. Fumigation of stored grains with CTC began

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before World War I, but became more widely adopted as better equipment and techniques were developed during the war. Because CTC produces highly toxic phosgene gas when heated in the presence of moisture, its use as a fire extinguisher came under scrutiny in the 1920s and 1930s. Additives were later developed and used to prevent phosgene formation. CTC also saw some medicinal use as a hookworm treatment in animals, and, primarily in tropical regions, in humans.

During the years preceeding World War II, perchloroethylene (PCE) and trichloroethylene (TCE) emerged as dry-cleaning and degreasing solvents, eroding CTC's market share. However, a major new use for CTC was discovered in 1929, when DuPont and General Motors produced the first chloroflourocarbons (CFCs). CFCs were produced by DuPont under the trade name "Freon." Production processes for the lighter CFCs, including the widely used compounds CFC-11 and CFC-12, used carbon tetrachloride as a feedstock. Despite CTC's loss of market share in the dry cleaning and degreasing markets, its total production increased throughout the 1930s, 1940s, 1950s, and 1960s due to its use in CFC production.

CTC production in the US plateaued in the 1970s. In 1968, the US Food and Drug Administration (FDA) moved to ban interstate commerce of CTC and CTC-containing products. The FDA believed CTC posed a hazard when present in homes and when used as a fire extinguisher. By 1970, CTC was banned from use in US commercial goods, and in 1972, it was identified as an animal carcinogen. Further decreases in CTC production occurred in the aftermath of Rowland and Molina's landmark 1974 paper identifying CFCs as depletors of stratospheric ozone.[1] After several years of controversy, CFCs were banned in aerosol products in 1978. Under the 1990 Clean Air Act amendments, emissive uses of CTC, CFC-11 and CFC-12 were banned as of January 1996. The 1992 amendments to the Montreal Protocol included a complete ban on CTC production and use as of January 1, 2000.

[1] Molina and Rowland, *Nature*, Vol. 248, p. 810, June 28, 1974.

For further information on the history of carbon tetrachloride, see these articles or contact information@solventhistory.com.

PERCHLOROETHYLENE / TETRACHLOROETHYLENE (PCE)

Tetrachlorethylene, also known as perchloroethylene or PCE, is widely known as a dry-cleaning solvent, but was also used in cleaning and degreasing (particularly when a stable, high-boiling point solvent was needed), in various textile production processes, and in the production of fluorinated compounds such as CFC-113. PCE was first synthesized in 1821 by Michael Faraday. Significant industrial uses in the US are not known prior to the early 1920s, when Dow Chemical began production of commercial quantities. PCE was introduced to the dry-cleaning industry during the 1930s, and became widely accepted due to its low toxicity relative to carbon tetrachloride, and its low flammability and less persistent odor relative to petroleum solvents. By 1950, PCE use in dry-cleaning led carbon tetrachloride by a factor of 3-to-1.

PCE production in the US more than tripled in the 1960s. However, improvements in the dry-cleaning process began to significantly decrease

the demand for PCE. In 1959, one drum of PCE could clean 500 pounds of clothing; by 1975, the number increased to 8,000; and by 1993, it reached 16,000. PCE production decreased by a factor of eight from 1980 to 1990. Despite the decline, and the effect of environmental regulations and toxicity studies, PCE is still used by 80 to 90 percent of today's dry cleaners. Equipment used today recovers 95 to 99 percent of the PCE used in dry-cleaning.

For further information on the history of tetrachloroethylene, see these articles or contact information@solventhistory.com.

TRICHLOROETHYLENE (TCE)

Trichloroethylene (TCE) became one of the most widely-used chlorinated solvents for cleaning and degreasing because of its effectiveness, noncorrosivity, and nonflammability. TCE was first prepared in 1864, but was not produced commercially in the US until the 1920s. Earliest applications included use in boot polishes and printing ink dryers. TCE was used in the US food processing industry as an extraction solvent as early as 1927. During the 1930s, TCE's use in the dry-cleaning industry increased, and it began to replace carbon tetrachloride in solvent applications.

During World War II, the production and use of TCE increased significantly due to its use in degreasing. Supplies were controlled by the US government so that military demands could be met. The introduction of neutral stabilizer systems in 1954 helped retain TCE's position as the degreasing solvent of choice. It did, however, have other uses at this time, including dry-cleaning, and extraction of fats and oils. It was also used as a heat exchanging fluid, and in medical applications as an analgesic and anesthetic. DuPont was the largest producer of TCE in the late 1950s.

TCE became the first chlorinated solvent to be subjected to environmental regulation when the Los Angeles County Air Pollution Control District enacted Rule 66, which limited air emissions of TCE and other smog precursors. The use of TCE peaked in the US in 1970. Its decline in the following years was primarily due to increased evidence of toxicity and the advent of environmental regulations. The National Cancer Institute released evidence of TCE carcinogenicity in March 1975; in July 1975, General Foods ceased using TCE for decaffeination of coffee.

TCE use increased during the 1990s when TCA and other solvents were banned under the 1990 Clean Air Act Amendments. (TCA is discussed further below.) Dow Chemical and PPG were the remaining TCE producers as of 1997.

For further information on the history of trichloroethylene, see these articles or contact information@solventhistory.com.

1,1,1-TRICHLOROETHANE (TCA)

1,1,1-trichloroethane (TCA) was first prepared in 1840, but was not used in significant commercial quantities for over 100 years. It was first introduced commercially in the US by Dow Chemical in the mid-1950s. TCA's early uses were in cold cleaning applications and as an aerosol propellant. As a propellant, TCA was used in a variety of products including hair sprays. Despite its effectiveness as a cleaning solvent and its significantly reduced toxicity relative to TCE, TCA took many years to gain acceptance in the vapor degreasing market because it was relatively unstable, particularly in the presence of aluminum and when subjected to high temperatures. TCA was not widely used until improved stabilizer formulations were developed and implemented in the late 1950s and early 1960s. These stabilizer formulations used several chemicals, chief among them being 1,4-dioxane, to overcome TCA's corrosion problems. As a result of improved TCA stabilizers and the regulation of TCE as an air pollutant, the production of TCA surpassed TCE in 1973.

TCA, along with CFCs and other chemicals, were identified as ozone-depleting substances in the mid-to-late 1970s. Aerosol propellants were banned in the US in 1978. The 1990 Clean Air Act Amendments imposed a December 1995 deadline for ending emissive uses, and included other interim deadlines and schedules that significantly decreased TCA use. Dow Chemical ceased TCA production in February 1994.

For further information on the history of 1,1,1-trichloroethane, see these articles or contact information@solventhistory.com.

For further information on the chlorinated solvents discussed above, see:

Doherty, Richard E., *A History of the Production and Use of Carbon Tetrachloride, Tetrachloroethylene, Trichloroethylene and 1,1,1-Trichloroethane in the United States: Part 1 - Historical Background; Carbon Tetrachloride and Tetrachloroethylene,* Journal of Environmental Forensics, Vol.1, June 2000, pp. 69-81.

Doherty, Richard E., *A History of the Production and Use of Carbon Tetrachloride, Tetrachloroethylene, Trichloroethylene and 1,1,1-Trichloroethane in the United States: Part 2 - Trichloroethylene and 1,1,1-Trichloroethane,* Journal of Environmental Forensics, Vol. 1, June 2000, pp. 83-93.

Contact information@solventhistory.com for further information on these articles.

METHYLENE CHLORIDE

Methylene chloride (dichloromethane) was first prepared by Regnault in 1840, but did not become an important industrial chemical until World War II. The post-war years saw a five-fold increase in production. The peak years of production were the late 1970s and early 1980s.

In 1985, a National Toxicology Program study found that methylene chloride caused cancer in mice.

Because methylene chloride is one of the more stable chlorinated solvents, only small quantities of stabilizers are added. Chemicals used as stabilizers included phenols, amines, epoxides, and a mixture of nitromethane and 1,4-dioxane.

One of methylene chloride's first uses was in paint strippers, and it remained the predominant use for many decades. It was also used as an extraction solvent in laboratories and in the production of spices, beer hops, and decaffeinated coffee. Uses in aerosols decreased after the 1985 cancer study results were released. Other uses included metal degreasing and chemical processing.

1,2-DICHLORETHANE

1,2-dichloroethane or ethylene dichloride has very few solvent or emissive uses, but it is produced in volumes much greater then most other chlorinated compounds. Its chief use is in the production of vinyl chloride monomer. It is also used in the production of chlorinated solvents such as TCE, PCE, TCA, and vinylidene chloride.

1,2-DCA formerly was used in varnish and finish removers, soaps, metal degreasers, paints, coatings, adhesives, and in ore flotation. It was also used as a grain, soil, and household fumigant.

Please send e-mail to information@solventhistory.com. Comments, suggestions, etc. are welcome.

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Primary Metals

3 Ferrous and Non-Ferrous Foundries

Ferrous and non-ferrous foundries specialize in melting and casting metal into desired shapes. Foundry products are most often used in automobiles, plumbing fixtures, train locomotives, airplanes and as metal pieces in other kinds of equipment. Independent foundries are classified under SIC code 3300; however, many specialty or smaller production foundries often operate within larger plants classified under other SIC codes.

In 1990, iron and steel accounted for 84% of metals cast (McKinley, 1994). The remaining 15% of foundry operations come from aluminum, copper, zinc and lead production. The foundry industry currently produces 11 million tons of metal product per year, with a shipment value of $19 billion. Almost 200,000 people are employed in over 3,000 foundries in the United States. Although the large iron and steel foundries produce billions of dollars in metal each year and provide many jobs, most foundries have far smaller budgets and employ less than 100 people.

Foundry Processes

Cast Making

The first step in metal casting (Figure 3) involves the creation of a mold into which the molten metal will be poured and cooled. The materials used to make the molds depend on the type of metal being cast and the desired shape of the final product. Sand is the most common molding material; however, metals, investment materials, and other compounds may also be used.

Figure 3. Metal Casting Process (USEPA, 1981)

Green sand mold are used in 85% of foundries. Green sand is a mixture of sand, clay, carbonaceous material and water (Figure 4). The sand provides the structure for the mold, the clay binds the sand together and the carbonaceous materials prevent rust. Water is used to activate the clay. The green sand mixture is packed around a pattern of the metal piece and allowed to harden. The mold is carefully removed from the pattern and prepared for the molten metal.

Figure 4. Green Sand Composition

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Sand molds are used only once. Molten metal is poured into the mold and allowed to cool. After cooling, the mold is broken away from the metal piece in a process called shakeout. Most of the sand from green sand molds is reused to make future molds.

Sand mixtures are also often used to create cores. Cores are pieces that fit into the mold to create detailed internal passages in the metal piece. Cores must be strong and hard to withstand the molten metal, and collapsible so they can be removed from the metal piece after it has cooled. To obtain these properties, resins or chemical binders are usually added to sand mixtures. Depending on the binder used, molds may be either air or thermally set.

Other molding materials include chemically bonded sand, metal or refractories. These materials are used in the remaining 15% of foundry applications. Shell molds use chemically bonded sand to make the molds. Permanent metal molds may be used in foundries that produce large quantities of the same piece. Investment molds are made from ceramic substances called refractories. They are used in high precision metal castings.

Metal Melting

Foundries melt metals in one of several types of furnaces depending on the type of metal being used (Table 1). Furnaces types include cupolas, electric arc, induction, hearth or reverberatory and crucible. Because of the different nature of metals, different inputs are required and different pollution is released from each type.

Table 1. Common Types of Metal Melting Furnaces

Furnace Type	Raw Materials	Outputs	Process
Cupola Furnace	Iron ore, scrap iron, lime, coke	Molten iron	Alternative layers of metal and coke are fed into the top of the furnace. The metal is melted by the hot gasses from the coke combustion. Impurities react with the lime and are separated.
Electric Arc Furnace	Scrap iron, flux	Molten iron and steel	Electric arcs from carbon electrodes melt the scrap metal. The flux reacts with impurities.
Induction Furnace	Scrap iron or non-ferrous metals	Molten iron or non-ferrous metals	Induction furnaces are the most common type used by both ferrous and non-ferrous foundries. Copper coils heat the

furnaces are used for smaller (5-10 ton) operations. In coreless induction furnaces, refractory lined crucibles are surrounded by water-cooled, copper coils.

For larger quantities, channel induction furnaces are used. In these furnaces the copper coils are surrounded by inductors to promote metal melting. Channel furnaces are commonly used to hold the molten metal prior to casting.

Induction furnaces use alternating currents to create heat and melt the metal. The refractories are usually made of silica, alumina or magnesia. They break down over time and become part of the slag.

Reverberatory or Hearth Furnaces

Hearth furnaces are used in batch melting of non-ferrous metals. The hearth can be heated by either electric or natural gas methods. Hearth furnaces are used to produce small quantities of metal, usually for art and similar industries.

Metal Casting

After metal has been melted, it is poured into a mold and allowed to cool. To remove the mold, sand castings enter a process called shakeout where the sand mold is shaken from the metal piece. During the process dust and smoke are collected by dust control equipment. Permanent molds are pried from the metal pieces without being destroyed. Investment molds and shell molds are destroyed during removal, creating solid waste.

Any additional parts used to hold the piece during casting are removed. The metal piece is cleaned using steel shot, grit or other mechanical cleaners to remove any remaining casting sand, metal flash or oxide.

A surface coating may be applied to the metal piece at the foundry; however, such coating is usually done at metal finishing plants. Further discussion of metal finishing can be found in *The Pollution Prevention for the Metal Finishing Industry.*

Foundry Waste Streams

The waste products produced by foundries directly relate to the metal type, the furnace type and the molding technology used. For example, foundries that use sand molds generate the most waste from sand. Nonferrous foundries and steel foundries may produce hazardous waste because of the lead, zinc, cadmium and other metal present in the waste. Cupola furnaces produce more air pollution than induction furnaces due to coke use and sand castings produce more solid waste than permanent molds because of the sand fines that cannot be reused.

By volume, gaseous waste is the largest waste source from foundries (Dieter, 1995). Air emissions come from the binder systems used in mold making, the vapors from metal melting and airborne sand used in the pouring and shakeout steps. Air emissions have not been well

quantified; however, they generally contain metals, semi-volatile and volatile organic compounds. They mainly come from the melting procedures. Pouring and cooling steps contribute about 16% of the total organic and semi-volatile wastes from foundries (Shah, 1995).

Most of the gaseous metal emissions are captured in the emissions control systems attached to furnaces, shakeout and cleaning areas of the foundry. Cupola furnaces contributed more metallic air emissions than other furnace types. Metal emissions from induction furnaces are very small. The core and mold making processes produce almost insignificant levels of metal emissions. Emissions from the pouring process depend on the metal temperature. The hotter the metals, the more metal emissions (Shah, 1995).

Organic air emissions come largely from unreacted components of resins, solvents and catalysts. They come primarily from the core and mold making steps and are not well quantified (Shah, 1995). OSHA standards have been the primary reason for monitoring air emissions in the past. However, with the Clean Air Act and its amendments as well as increasing regulations from the EPA, more air emissions studies are being done.

Liquid Emissions

Liquid pollution makes up a small portion of the total waste stream from foundries (Dieter, 1995). Liquid waste comes from non-contact cooling water used to cool metal and other work pieces or from wet scrubber air emission systems. Water runoff from floor cleaning and other maintenance procedures may also produce liquid waste. However, volumes of liquid waste are relatively small and do not pose a large pollution problem for foundries. Some plants have water treatment facilities to remove contaminants for water reuse.

Solid Waste

Solid waste makes up a large portion of the pollution from foundries. On-quarter to one ton of solid waste per one ton of castings is expected (Shah, 1995). The waste comes from sand, slag, emissions control dust and spent refractories. Sand waste from foundries using sand molds has been identified as the most pressing waste problem in foundries (Twarog, 1992). Molding and core sand make up 66-88% of the total waste from ferrous foundries (USEPA, 1992).

Sand Waste

Green foundry sand is routinely reused. After the sand is removed from the metal piece, it can easily be remolded. However, sand fines develop with reuse. These particles are too small to be effective in molds and have to be removed and often landfilled.

Sand that is chemically bound to make cores or shell molds is more difficult to reuse effectively and may be landfilled after a single use. Sand recovery methods, as discussed later, have been investigated with mixed results.

Sand wastes from brass and bronze foundries pose further waste problems as they are often hazardous. Lead, copper, nickel, and zinc may

be found in the sand in sufficient levels to require further treatment before disposal. If metal levels are sufficent, recovery methods may be employed.

Investment Casting Waste

Although investment castings are not as widely used as sand castings, they also produce solid waste, as they are usually destroyed when removed from a work piece. Spent molds are non-hazardous unless heavy metal alloy constituents are present. Spent wax, used as patterns for the molds, also contribute to solid waste. The patterns are removed by melting the wax and can usually be reused.

Cleaning Room Waste

Finished metal pieces are often cleaned in abrasion cleaning systems. The abrasive cleaners and the sand they remove from the metal pieces contribute to solid waste. Grinding wheels and floor sweepings also add solid waste. These wastes are collected and usually landfilled.

Air Emissions Control Systems

Baghouse air emission control systems are one of the most frequently used technology for controling air emissions in foundries. Air is pumped into the baghouse where particulates accumulate on a fabric filter. The system is efficient for removing particles above or below 0.1 - 0.3 micrometers (Shah, 1995). Other types of air emissions control systems may also be used including wet scrubbers, absorption and adsorption systems, combustion and electrostatic precipitation. All systems produce a solid waste from the air emissions and release the cleaned air.

The emissions control dust is collected at almost all stages of foundry production. If it does not contain hazardous wastes, it is usually landfilled. However, steel foundries frequently produce emissions control dust that contains zinc, lead, nickel, cadmium, and chromium, depending on the metal content. Nonferrous emissions control dust may also be classified as hazardous due to copper, aluminum, lead, tin and zinc. Depending on the metals content in the emissions control dust it may be permitted for land fill, or it may require further treatment before disposal. Nonferrous foundry dust often contains sufficient levels of metals to make metal recovery economically favorable.

Slag Wastes

Slag waste is often very complex chemically and contains a variety of contaminants from the scrap metals. Common components include metal oxides, melted refractories, sand, and coke ash (if coke is used). Fluxes may also be added to help remove the slag from the furnace. Slag may be hazardous if it contains lead, cadmium, or chromium from steel or nonferrous metals melting. Iron foundry slag may be highly reactive if calcium carbide is used to desulfurize the iron. Special handling is required for highly reactive waste.

Pollution Prevention Methods for Foundries

Sand Reclamation

Green sand can be reused multiple times without significant refinement. The sand is filtered to remove fines that develop from the process. Additional sand is added to account for sand that is lost. Then the sand is remolded for a different metal piece.

Chemically bound sand used for core making and other types of molds is not so easily reused. However, many methods have been developed to recover foundry sand, with mixed success. The object of sand reclamation is to remove residual binders and contaminants from the sand grains so the sand can be reused without affecting the quality of the mold. The sand reclamation process is defined by the American Foundrymen's Society Sand Reclamation and Recovery Committee as "the physical, chemical or thermal treatment of a refractory aggregate to allow its reuse without significantly lowering its original useful properties as required for the application involved."

Four methods for recovering sand have been developed. The method that will be useful depends largely on the type of metal cast, the binders used, and the desired reuse.

Attrition Sand Reclamation

Attrition sand reclamation technology spins two streams of sand in opposite directions in the presence of heat. The combination of sand abrasion and binder combustion free the sand particles from some binders. Attrition cannot remove all residual binders, but works well with no-bake binders. The yield from this process is a high strength recycled sand.

Because all binders cannot be removed through attrition, the sand characteristics may be changed. For some casting operations the characteristics may be changed significantly enough that the sand may be be ineffective for furture castings.

Attrition methods of sand reclamation may also produce large quantities of dust. The dust can be captured in air emission control equipment, hence contributing to the total volume of solid waste.

Dry Sand Reclamation

Dry sand reclamation relies on mechanical and pneumatic scrubbers to remove lumps and binders from sand (Figure 5). Mechanical scrubbing moves each sand grain through a sand-to-metal or sand-to-sand interface to remove impurities. Pneumatic scrubbers use air to propel sand between baffles. These scrubbers are particularly good for removing clay from molding sands and binders in systems that are not baked.

Figure 5. Dry Sand Reclamation (Heine, 1983)

Dry reclamation can produce large quantities of dust. These air emissions have to be monitored and captured by control equipment. Dry

sand reclamation may also not be capable of removing binders to the extent necessary for reuse in some foundry operations.

Water (Wet) Reclamation

Wet reclamation uses water to remove sand binders (Figure 6). The process uses on the different water solubilities of sand and binders to separate the two. Clay bonded systems work well with water reclamation processes because the clays are very soluble in water. Sodium silicate sand binders can also be removed using wet reclamation. The sodium silicate dissolves part of the sand crystal when binding, but can be removed by exposing it to water. After the sand is soaked in a water bath it is dried and reused.

Figure 6. Wet Sand Reclamation (Heine, 1983)

Although wet reclamation was used in the 1950s and 1960s, it has been nearly eliminated as a method of sand recovery. Chemical binders are also no longer sufficiently hydrophilic to dissolve in water. Further, organic resins that do dissolve and other water soluble impurities can cause significant water contamination. The high volume of waste water and strict environmental regulations can make wet sand reclamation too expensive.

Thermal Sand Reclamation

Thermal reclamation uses heat in a rotary kiln, multiple-hearth furnaces, or a fluidized bed to combust binders and contaminants (Figure 7). In removing binders, the process can cause sand to change in composition. Combustion products from the fuel used to heat the sand and thermal cracking of the sand crystals may occur. The resulting sand may be significantly different than the original sand. Depending on the type of casting, thermally treated sand may or may not be usable.

Figure 7. Thermal Sand Reclamation (Heine, 1983)

Infrared energy can also be used to thermally treat sand. This method may maintain more of the sands original composition, while still destroying binders. Infrared units, called electric sand reclamation units, are in place in the United Kingdom and Canada ("Navistar Goes Infrared," 1993). External blowers push the sand through fluidized beds, allowing the sand to directly contact the infrared radiation which breaks down the binders. The electric sand reclamation units do not produce the combustion products associated with traditional thermal reclamation processes.

Sand Recycling

Another option for foundry sand is recycling. Many industries use sand as a raw material in their processes. As foundry sand is usually not hazardous, it can serve this purpose. Markets for spent foundry sand include manufacturing of: cement, concrete, asphalt, bricks and tiles, flowable fill (permeable, low-strength concrete), geotechnical fill and roadfill, daily landfill cover, and manufactured topsoil and

composting. Liability and local legislation must, of course, be considered before selling spent foundry sand.

Spent Slag and Emissions Control Dust

Slag and emissions control dust constitute the remainder of the solid waste produced by foundries. Not much has been written regarding process modification to reduce these solid wastes. However, if the slag or dust contained sufficient metal content, they can be fed back into the furnaces to reclaim the remaining metal dust. The metals can also be recovered from the dust using electrolytic or other metal recovery techniques. The recovered metal can either be added to the molten metal or sold for other uses.

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Case Studies

Air Emissions Reduction

Replacing Organic Cleaners with Citrus Based Solvents
Pollution Prevention Case Study, Enviroene, October 31, 1995

Northern Precision Castings, Geneva, Wisconsin, is an investment casting operation employing 150 people and casting more than 200,000 pounds of metal per month. The operation uses ceramic molds and wax patterns. The wax patterns must be cleaned thoroughly for proper ceramic adhesion. The cleaner used was the solvent 1,1,1-Trichloroethane (TCA) which evapoarted to leave the surface clean. The evaporation produced 18,000 pounds (1988) of emissions.

Environmental regulations pertaining to TCA caused Northern PercisionCasting to consider alternatives. They requested alternatives from their solvent supplier. The supplier's first recommendation was a switch to freon until a better alternative could be identified. The freon produced fewer emission than the than TCP and was used for six to nine months. After that period, freon was replaced with a citrus-based, non-hazardous solvent. The new solvent has been effectively cleaning the wax assemblies with minimal emissions.

Product quality was a concern prior to the cleaning chemical switch. However, the change produced no change in mold quality. Initally, the citrus-based solvent produced an odor the workers found offensive, but the problem has been resolved.

The switch from organic solvent cleaners to a citrus-based cleaner has required no capital cost and no signifacant changes in operations and maintenance costs. The fugitive air emissions prior to the shift were 18,000 pounds (1988). After the move to the citrus-based cleaner, emissions constituted water-soluble liquid waste which can be discharged to the Publicly-Owned Treatment Works (POTW).

Foundry Sand Reclamation

Michigan Department of Commerce and Naturla Resources, November 1993, #9303

Wolverine Bronze or Roseville, Michigan installed a thermal sand recycling system in an attempt to cut costs of sand purchases. The system produced sand quailty adequate to meet the molding needs; however, the system was not economically beneficial. As the sand needs at the facilty varied greatly, use of the machine varied. However, the thermal apparatus required constant heat to provide quick start up without damage to the system. With the heat requirements, the thermal sand recycling operation did not save signficant amounts of money over the purchase of new sand.

In 1989, low energy sand recycling sytems were evaluated to replace the thermal system. An attition sand recovery system was installed. In

the attition system, sand grains rub together at high speeds to remove residual binders and inorganic contamiants. The system has produced signifant cost savings over the use of new sand. The primary savings stems from reduced energy and maintenance requirements over the thermal recovery system.

Cupola Slag Reduction

Iowa Waste Reduction Assistance Program, Cast Study #94-20

Quinn Machine and Foundry of Boone, Iowa produces concrete pipe forms our of iron. Slag from the cupola furnace was being produced at a rate of approximately 8,000 pounds per day. Quinn sought to reduce the slag production and, in turn, reduce thier volume of waste. They first attempted to locate a metal recovery operation for the slag. However, metal recovery did not prove economical for the facility.

After further evaluation, it was determined that a smaller charge in the furnace would increase the yield and reduce slag formation. The change has resulted in the predicted reductions. From the changes, landfill costs have been reduced by approximately $1,275 per year.

Reference 35

Seven Out Corporation
Waycross, Ware County

LAT 31° 12' 28"N / LONG 82° 21' 50"W

	Population		Households		Households Domestic Well		Households Public Water		Population Domestic Well		Population Public Water	
RAD	Ring	Total	Ring	Total	Ring	Total	Ring	Total	Ring	Total	Ring	Total
0.25	310	310	131	131	0	0	131	131	0	0	310	310
0.50	870	1180	366	498	1	1	366	497	2	2	868	1178
1.00	3556	4737	1411	1909	7	8	1404	1901	20	22	3536	4714
2.00	9521	14258	3684	5593	104	112	3579	5481	271	293	9251	13965
3.00	6215	20473	2330	7922	307	419	2022	7503	842	1135	5373	19338
4.00	3692	24164	1281	9203	295	714	986	8489	895	2030	2797	22135

Source: Census of Populaton and Housing, 1990: Summary Tape File 3 on CD-ROM Georgia [machine-readable data files] / prepared by the Bureau of the Census. –Washington: The Bureau [producer and distributor], 1992.

Seven Out Corporation
Waycross, Ware County

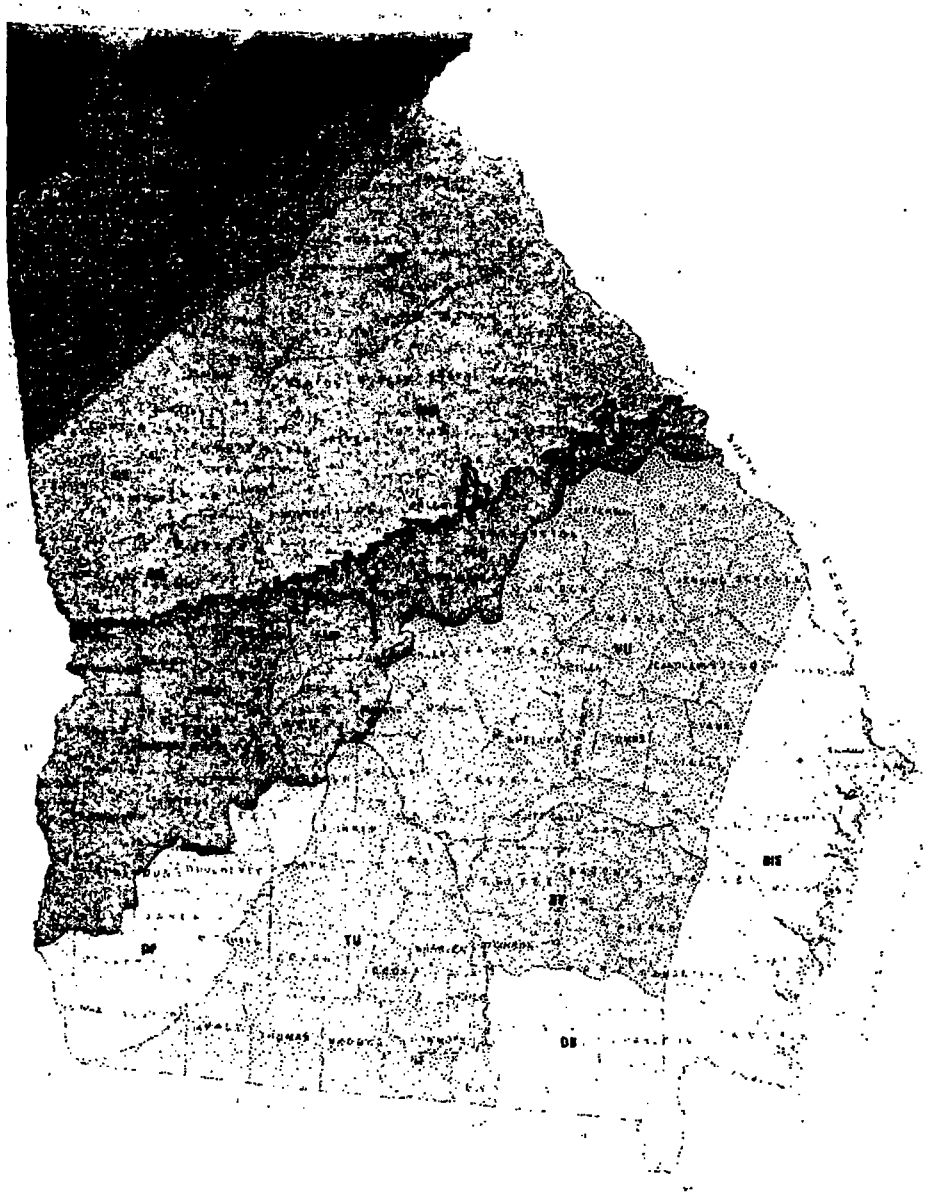
LAT 31° 12' 28"N / LONG 82° 21' 50"W

	Population		Households	
Rad	**Ring**	**Total**	**Ring**	**Total**
.25	167	167	66	66
.5	1241	1408	454	520
1	4090	5498	1619	2139
2	9644	15142	3956	6095
3	7195	22337	2943	9038
4	2995	25333	1175	10212

Source: Census of Populaton and Housing, 2000: Summary Tape File 3 on CD-ROM Georgia [machine-readable data files] / prepared by the Bureau of the Census. –Washington: The Bureau [producer and distributor], 2002.

Reference 36

Georgia Geologic Survey Physiographic Map of Georgia, 1:2,000,000



PHYSIOGRAPHIC MAP OF GEORGIA

by

William Z. Clark, Jr. and Arnold C. Zisa

DEPARTMENT OF NATURAL RESOURCES
Joe D. Tanner, Commissioner

THE GEOLOGIC AND WATER RESOURCES DIVISION
Sam M. Pickering, State Geologist and Division Director

Atlanta
1976

BT **Bacon Terraces District** - Several moderately dissected terraces, generally parallel to the present coastline, are detectable on topographic maps of the Bacon Terraces District. However, they are very difficult to observe on the ground because the east facing scarps are very subtle. The terrace levels occur at elevations of 330-310 feet, 295-275 feet, 265-255 feet, 240 feet, 230 feet, 215-190 feet, and 180-160 feet. This district, on the north, west, and south, corresponds to the Satilla River drainage basin with its boundaries on the basin divide. The eastern boundary is the western base of Trail Ridge at approximately the 150 foot elevation. The southeast-trending, very extended, dendritic drainage pattern has formed on Upper Tertiary sediments. This drainage network has produced long, narrow interfluves with gently rounded to flat summits that rise gradually 50 to 100 feet above the narrow, marshy floodplains

OB **Okefenokee Basin District** - Low relief, decreasing to the southeast, and numerous swamps are characteristic of the Okefenokee Basin District. Relief varies from approximately 50 feet to less than 5 feet. Elevations in the district range from 240 feet in the northwest on Pliocene-Pleistocene deposits to 75 feet in the southeast on Pleistocene deposits. The swamps range in size from a few hundred square feet to the 660 square miles of the Okefenokee Swamp. The northwestern portion of the Okefenokee Swamp, like the northern and western portions of the district, is drained by the southeast-flowing tributaries of the southwest-flowing Suwannee River. The southeastern portion of the swamp is drained by the south-flowing St. Marys River. At the extreme southern end of the district the St Marys River turns east and flows through a gap in Trail Ridge. The northern and western boundaries of the district coincide with the northern and western drainage divides of the Suwannee River. The eastern boundary is the western base of Trail Ridge.

Barrier Island Sequence District

Reference 37

The Satilla Initiative

Spring 2004

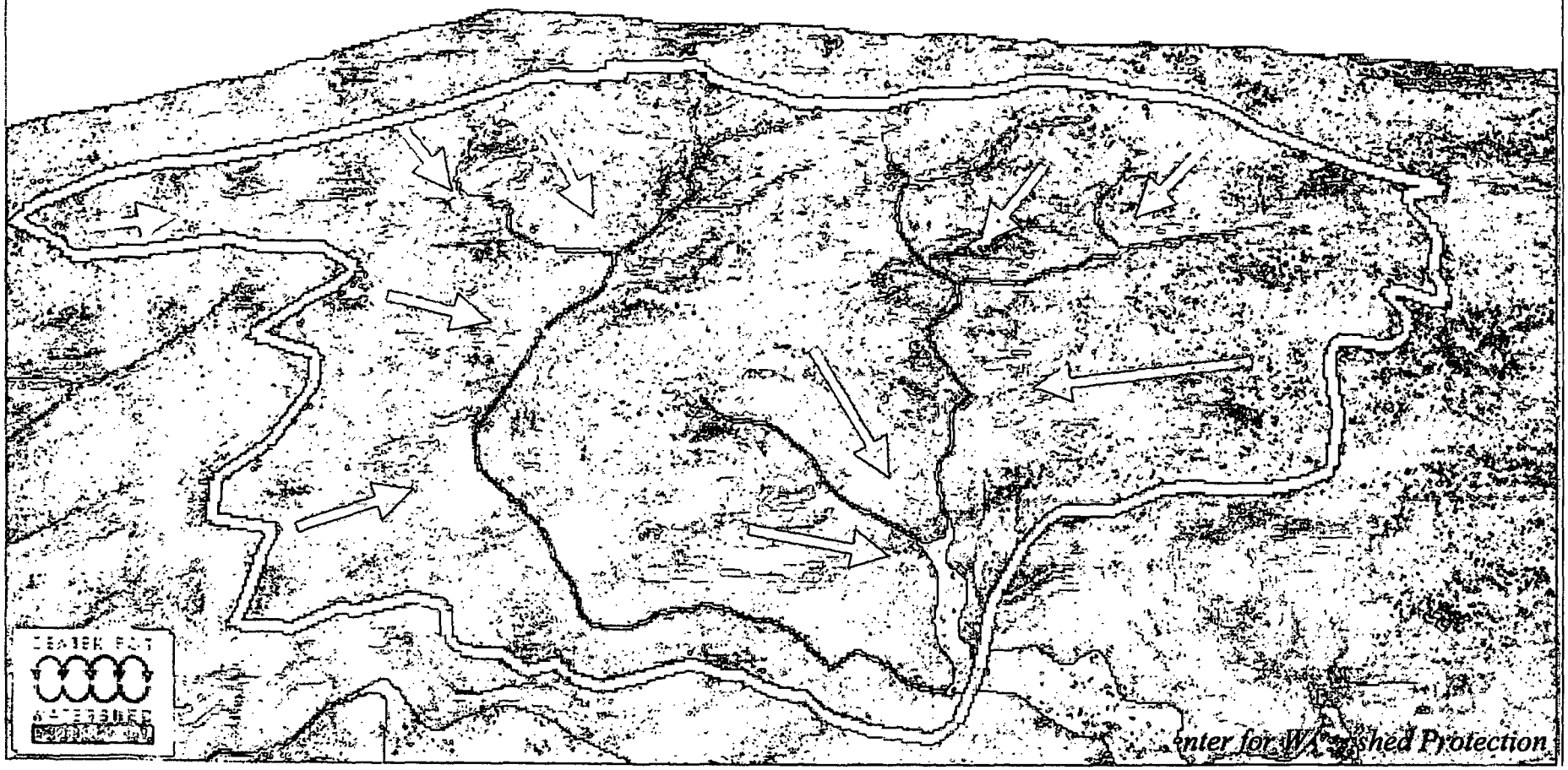
(3)

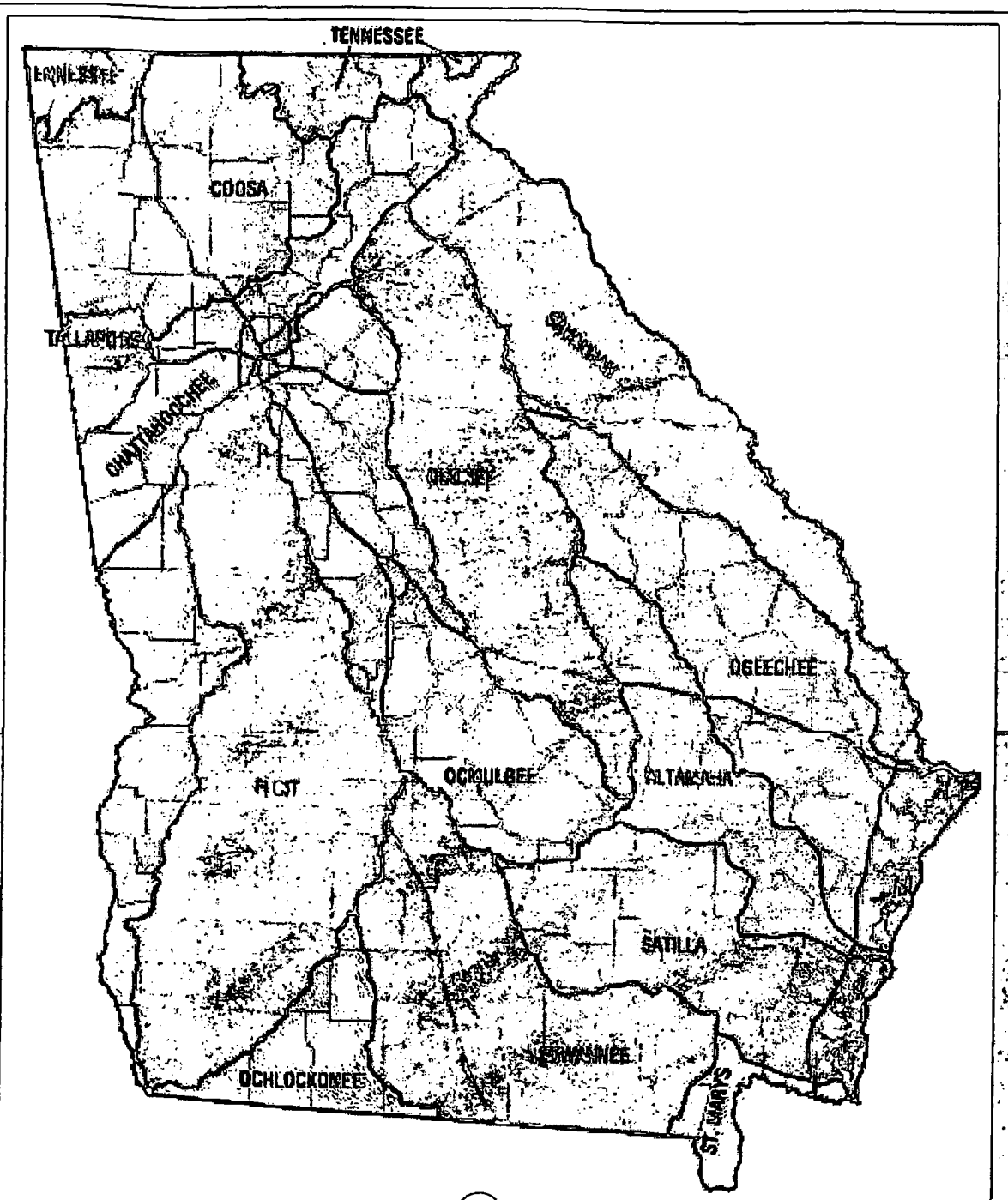
Overview

- Background on the Satilla watershed
  - Including summary of region and current environmental issues
- Rivers 101
- Expectations for & overview of the class

What Is a Watershed?

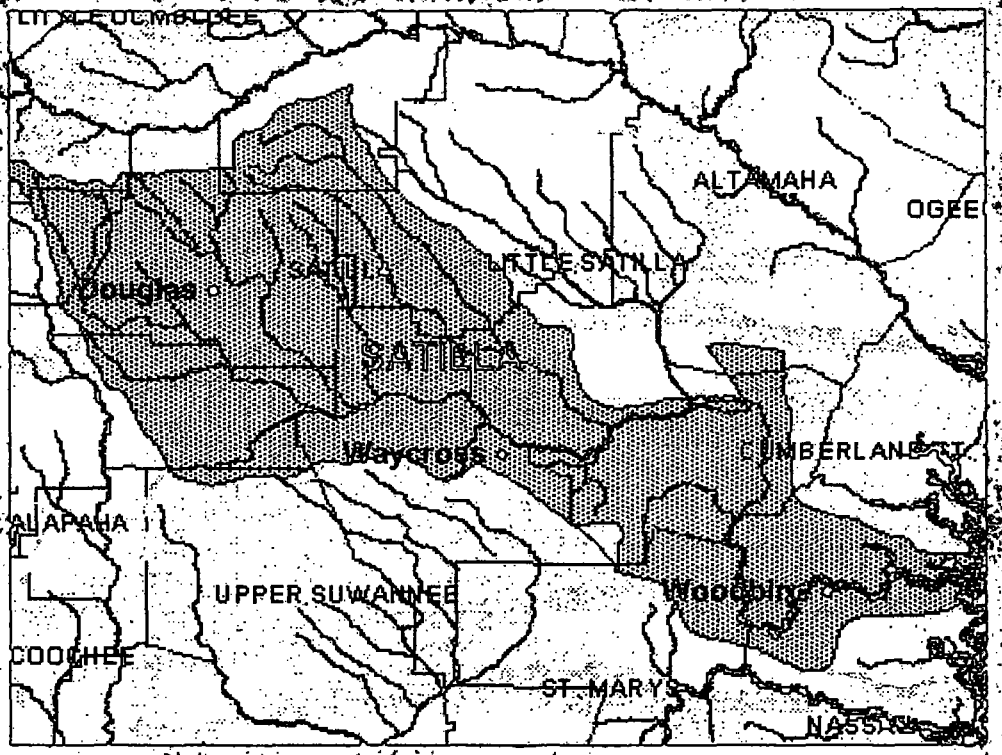
A watershed is the area of land that drains to a particular point along a stream

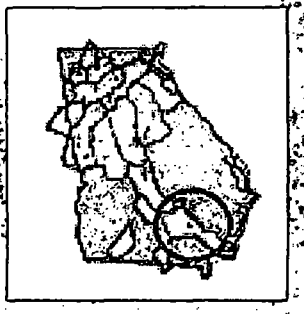



TENNESSEE
COOSA
OGEECHEE
OCMULGEE
SATILLA
OCHLOCKONEE
ST. MARYS

Satilla River Basin

- Lies entirely with Atlantic coastal plain
- Basin occupies 3,940 square miles
- Satilla River flows 260 miles before emptying into St. Andrews Sound
- Other major waterways in basin include Alapaha River, Little Satilla River, Turtle River, Seventeen Mile Creek and Hurricane Creek



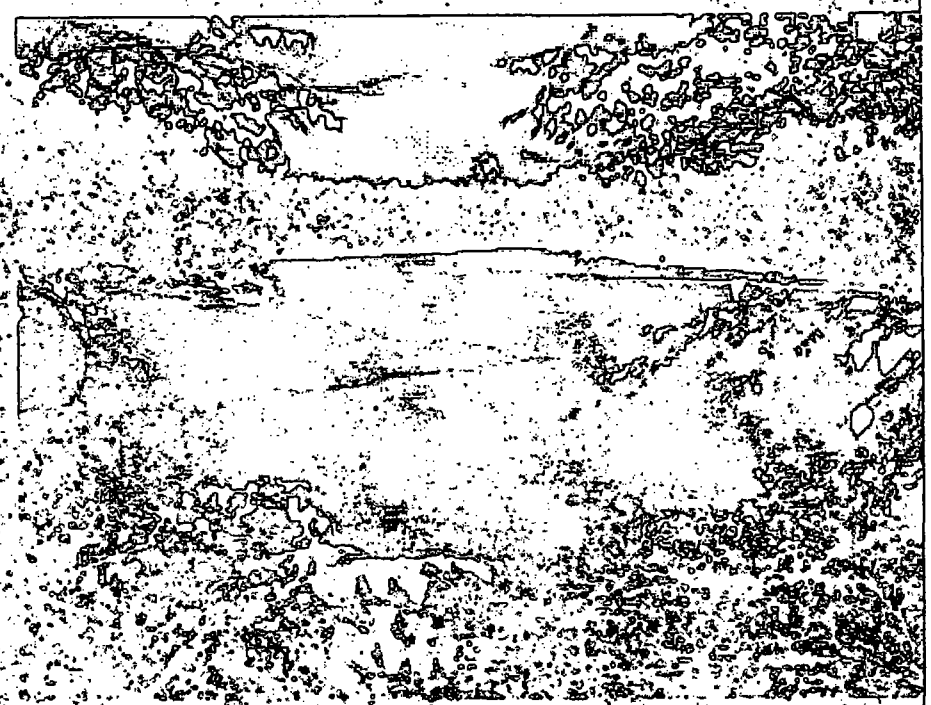


Why the Satilla?

- Georgia DNR specifically asked UGA to initiate program in Satilla similar to Etowah
- UGA received property along Satilla
- Development, agricultural runoff and industrial-residential pollution are relatively low so there is potential for protection

AND...

A Unique Ecosystem



- Black-water river with beach-white sandbars
- Extensive bottomland forests and cypress and black gum swamps bordering river
- Bluffs go up to 50 ft above river in upper reaches and 8 ft in lower reaches
- Near Woodbine, Satilla widens and loses canopy of trees, and then becomes tidally influenced and surrounding vegetation consists of marsh


Satilla Wildlife

Satilla Wildlife

- Raccoons, opossum, armadillos, bobcats, otters, beaver, gray foxes, black bear, alligators and turtles
- Game species include white-tailed deer, wild turkey, gray squirrel and feral hogs
- Birds include belted kingfisher, barred owl, great horned owl, red tail hawk, wood storks, herons and osprey

Satilla Fishes

- 52 species that represent 16 families live in the watershed
- Supplies major fisheries for redbreast sunfish and catfish

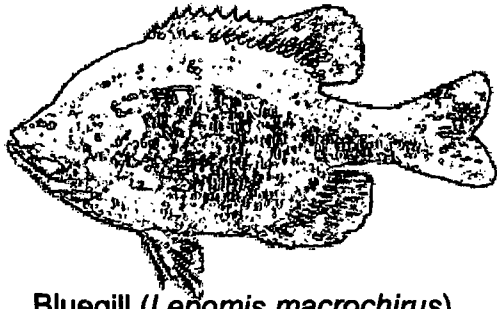
Redbreast Sunfish (*Lepomis auritus*)

Banded Topminnow (*Fundulus cingulatus*)

Largemouth Bass (*Micropterus salmoides*)

Chain Pickerel (*Esox niger*)

Channel Catfish (*Ictalurus punctatus*)



Bluegill (*Lepomis macrochirus*)

Flathead Catfish
(*Pylodictus olivaris*)

Savannah Morning News / Associated Press photo

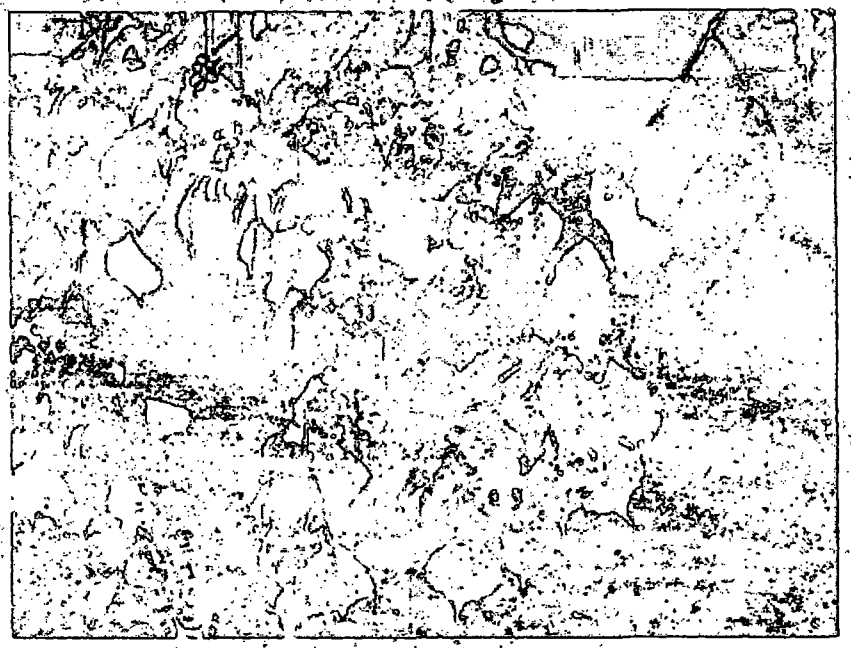
- Invasive species in Satilla
- Decimates populations of other fishes, especially the redbreast sunfish
- Georgia DNR's Wildlife Resources Division has a removal program to keep population from gaining dominance
- Harvest all flathead catfish caught in Satilla; Do not release any

Satilla Flora

- Wet areas: cypress and black gum swamps
- Drier areas: water oak, laurel oak, sweetbay, red maple and pine
- Many higher, sandy plateaus converted to monoculture pine plantations

Chinese Tallow
(*Sapium sebiferum*)

- Invasive species found around Satilla



- Gradually displacing black willow and other native species on sandbars and margins of river

Laura Walker State Park

- Only publicly owned lake in the Satilla River Watershed
- 110-acre blackwater lake
- Fisheries for largemouth bass, bluegill, catfish, chain pickerel and flier

Brief History of Satilla

- "Satilla" comes from Saint Illa, an officer in the Spanish Army
- Early times, the Satilla was known for abundant game and fur
- By the late 1800s, pioneer families established sustainable farming near the river
- Many famous large rice plantations near coast – Belleview, Fairfield and Refuge

Brief History of Satilla

- Satilla and its bottomlands provided numerous natural resources to settlers
  - Farmers grazed cattle and hogs in bottomlands
  - Longleaf pines were timbered and rafted down river
  - Pine forests supported naval stores industry (turpentine)
- Early 1900s, wood pulp and paper mills were established in the areas and began the steady depletion of the natural forested areas

Development in the Watershed

- As of 1995, about 101,000 people live in the Satilla watershed
- Between 1975 and 1995, population increased at a rate of 1% per year

- Satilla River basin supported 182,100 jobs in 1995
- Moving from a manufacturing-based to a service-based economy

Stresses to the Satilla

- Lack of planning, zoning and enforcement of regulations
- Rural development has continued without controls
- Cabins and trailer sites have encroached into floodplain

Stresses have resulted in...

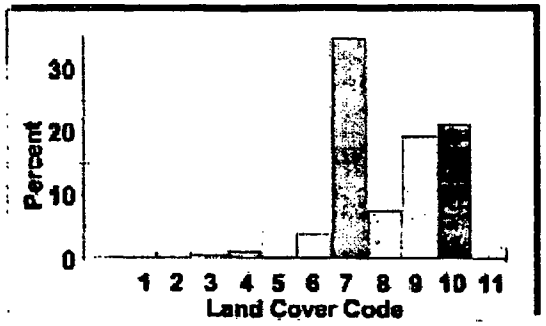
- Lack of public awareness and concern
  - Dead animal carcasses
  - Cars and ATVs damage streambed
- Pollution from raw sewage and medical waste spills, domestic trash and litter

Change in Land Use and Cover

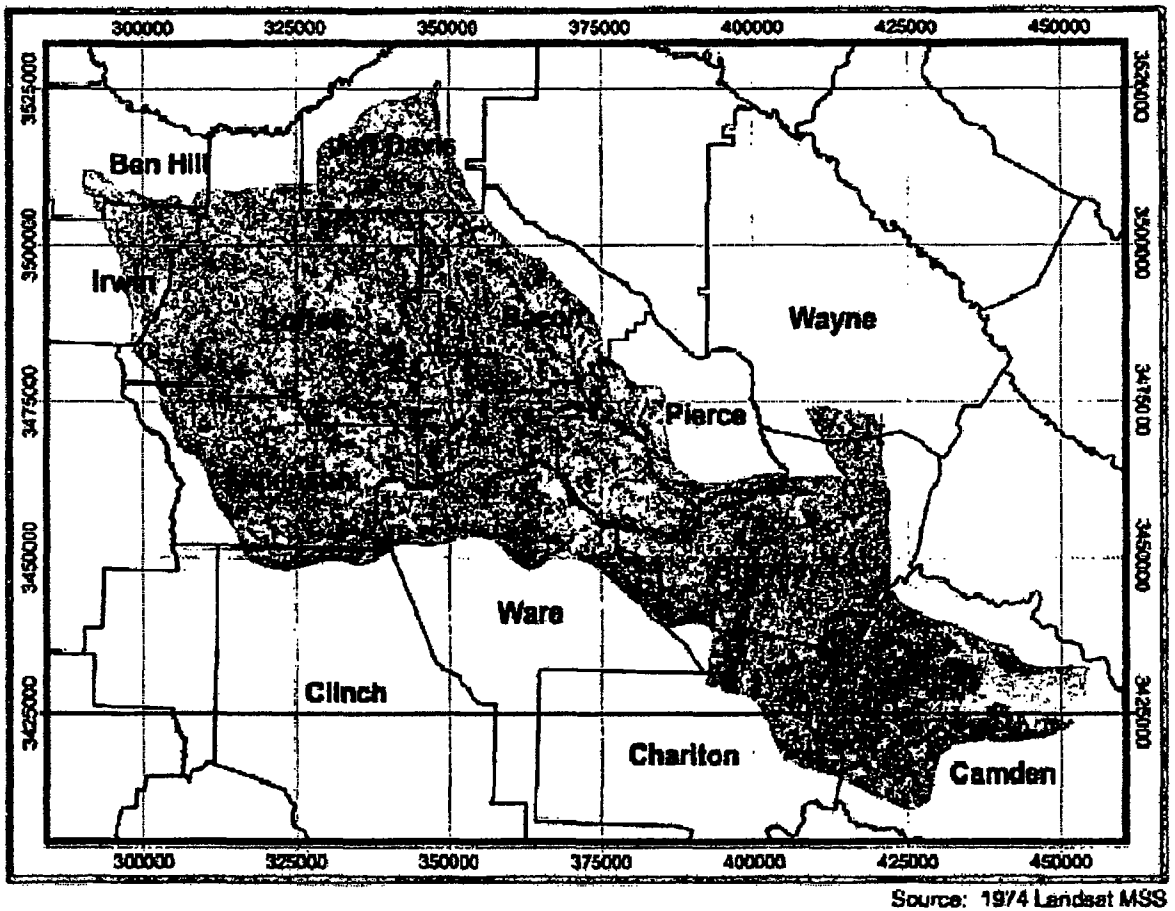
Major Land Cover %	1974	1990
Upland Forest	56.39	56.19
Deciduous	0.10	7.00
Pine	51.74	34.50
Mixed	4.48	14.73
Agriculture	26.14	22.04
Urban	1.11	1.70
Non-forested Wetland	1.51	3.49
Forested Wetland	14.32	15.71
Water/Flat/Beaches	0.52	0.87

SATILLA WATERSHED

1974 Land Cover



1	Sand/Rock/Mines
2	Open Water
3	Low Intensity Urban
4	High Intensity Urban
5	Clearcut/Sparse
6	Deciduous Forest
7	Evergreen Forest
8	Mixed Forest
9	Agriculture
10	Forested Wetland
11	Non-forested Wetland



Source: 1974 Landsat MSS

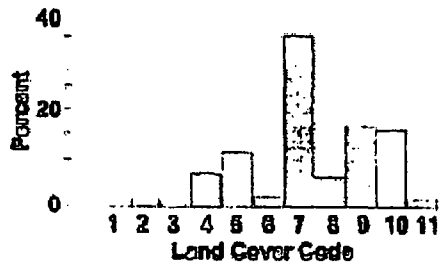
10 0 10 Miles

10 0 10 Kilometers

Projection:
UTM 17
NAD 83

SATILLA WATERSHED

1998 Land Cover



1	Sand/Rock/Mines
2	Open Water
3	Low Intensity Urban
4	High Intensity Urban
5	Clearcut/Sparse
6	Deciduous Forest
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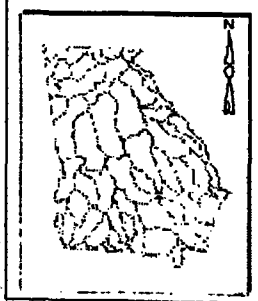
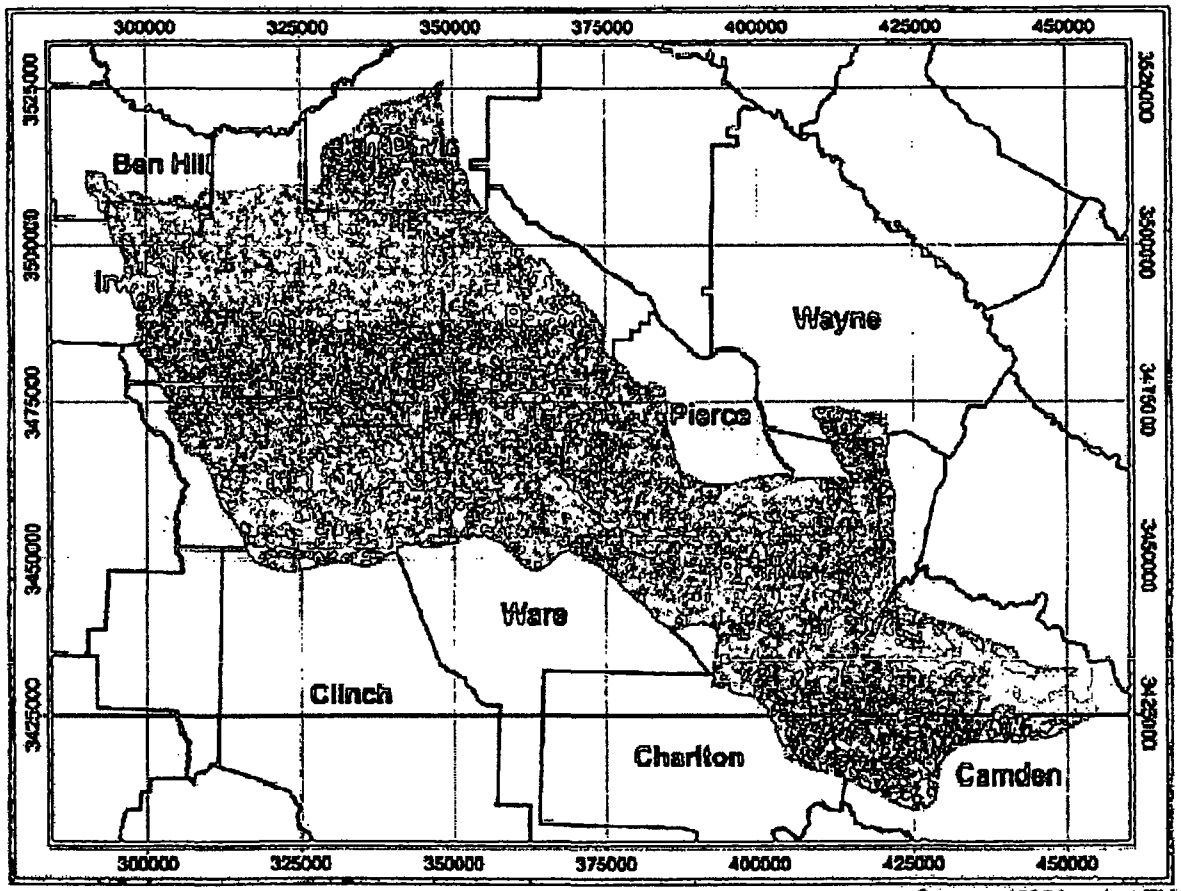
8	Mixed Forest
9	Agriculture
10	Forested Wetland
11	Non-forested Wetland





Source: 1998 Landsat TM

10 0 10 Miles

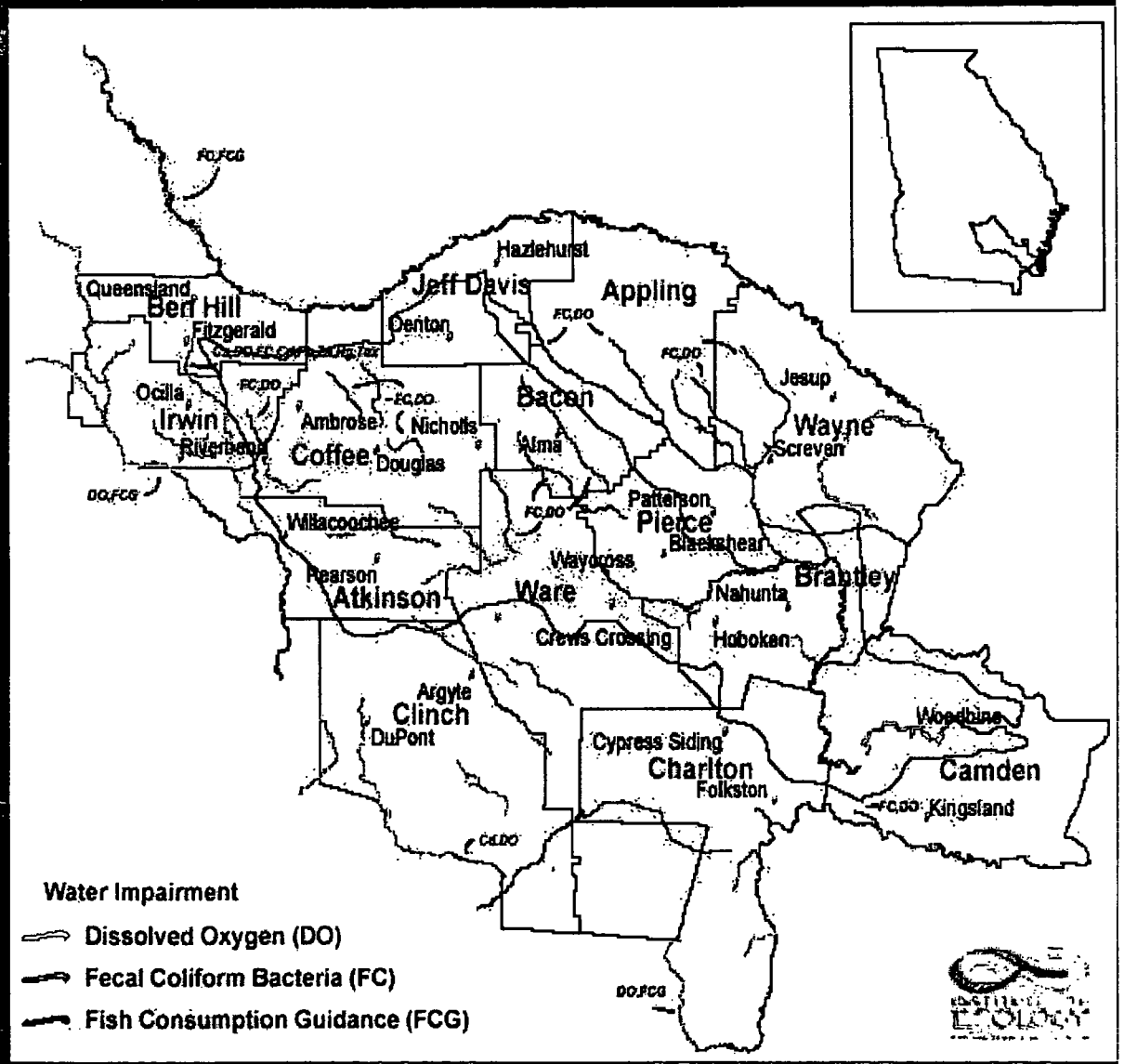
10 0 10 Kilometers

Projection:
UTM 17
NAD 83

ECOLOGY

Impaired Waterways

- 19 stream segments do not support designated use (*fecal coliform and dissolved oxygen*)
- 2 stream segments do not meet fish consumption guidelines (*mercury*)



Streams Not Supporting Designated Uses

Stream	Location	Designated Use	Criterion Violated	Potential Cause(s)
Big Creek	S. Prong Big Cr. To Satilla River (Brantley)	Fishing	DO	NP (Non Point)
Big Satilla Creek	Headwaters near Hazlehurst to Sweetwater Cr. near Baxley (Jeff Davis / Appling)	Fishing	DO,FC	UR (Urban Runoff)
Boggy Creek	Dry Creek to Little Satilla Cr. north of Screven (Wayne)	Fishing	DO,FC	NP
Broxton Creek	Seven Cr. To Seventeen Mile River near Broxton (Coffee)	Fishing	DO,FC	NP
City Drainage Canal	Trib. To Satilla River, Waycross (Ware)	Fishing	FC	UR
Colemans Creek	Dry Brach S. of Surrency to Big Satilla Cr. Near Screven (Appling / Wayne)	Fishing	DO,FC	Ur
Hog Creek	Hurricane Cr. To Satilla River S. of Nicholls near Bickley (Coffee / Ware)	Fishing	DO,FC	NP
Hurricane Creek	Downstream Little Cr. To Ten Mile Cr. Near Alma (Bacon)	Fishing	DO,FC	NP
Little Hurricane Creek	Ga. Hwy. 32 to Hurricane Cr. (Bacon / Ware / Pierce)	Fishing	DO,FC	NP
Little Satilla Creek	Keene Bay Branch to Dry Branch near Odum (Wayne)	Fishing	DO,FC	UR

Source: Georgia EPD, 2002

Streams Not Supporting Designated Uses

(Continued)

Stream	Location	Designated Use	Criterion Violated	Potential Cause(s)
Little Satilla Creek	Boggy Cr. To Little Satilla River near Screven (Wayne)	Fishing	DO	NP
Pudding Creek	Park Bay to Satilla River N. of Pearson (Atkinson)	Fishing	DO	NP
Red Bluff Creek	Little Red Bluff Cr. to Satilla River E. of Pearson (Atkinson)	Fishing	DO	NP
Reedy Creek	Headwaters to Big Satilla Cr. Near Screven (Appling / Wayne)	Fishing	DO,FC	UR
Roses Creek	Upstream Ga. Hwy. 206 to Seventeen Mile River near Broxton (Coffee)	Fishing	DO,FC	NP
Satilla Creek	Hunters Cr. E. of Ocilla to Satilla River (Irwin / Coffee)	Fishing	DO,FC	NP
Satilla River	Satilla Cr. to Reedy Cr. Near Douglas (Coffee)	Fishing	DO	NP
Seventeen Mile River	Twenty Mile Cr. N. of Douglas to Otter Cr. Downstream Gen. Coffee St. Park (Coffee)	Fishing	DO,FC	UR
Sweetwater Creek	Black Water Cr. to Big Satilla Cr. near Baxley (Appling)	Fishing	DO,FC	UR

Source: Georgia EPD, 2002

Satilla River

Conclusion:

- Unique ecosystem in Georgia
- Right now, development and pollution are low, but are increasing.

The Time is Now....

Rivers 101

Background information on rivers and the importance of aquatic resource protection

Dr. Ron Carroll
Institute of Ecology

The Satilla Initiative

The Satilla Initiative is a service learning course that provides a structured and supportive format for students to apply policy, design and ecological principles learned in the classroom to the real world of people and policy.

Mission Statement

To help protect the ecological integrity of the Satilla River Basin by working with stakeholders to reduce the impact of human activities on water quality and biodiversity.

Practicum Goals

- Provide an educational environment where students can apply skills learned in the traditional classroom to pressing community concerns and problems
- Provide an opportunity for students and faculty to work with other disciplines in integrated environmental decision-making and problem-solving thus improving their ability to understand, communicate with, and influence other disciplines

Practicum Goals

- Increase awareness of the importance of addressing environmental issues proactively within the university community and the broader community
- Respond to community concerns and problems in Satilla River basin
- Build capacity for service learning at UGA

Satilla Initiative

- Law
- Ecology
- Education
- Agricultural engineering
- Environmental design
- Forestry

How the Practicum Works

- Students choose groups/projects
- Faculty provides support
  - Developing work plans/strategy
  - Lectures
  - Resources (literature, contacts)
  - Group oversight
- Reflections throughout semester
- Final products

Expectations

- Attend class lectures and field trip
- Read assignments prior to each lecture
- Work together to define class projects
- Attend group meetings and work cooperatively to develop a work plan and to complete project
- Attend individual meetings with professors
- Keep a journal of work completed and reflections
- Students will be graded on class participation and project substance and presentation.

Potential Projects

- Develop a stormwater management plan for the City of Waycross
- Identify solution to City of Waycross sewage spills
- Develop strategy for eliminating disposal of animal carcasses in the river
- Manage ATVs and other off-road vehicular traffic within the banks (and streambed!)
- Develop plan for controlling invasive flora and fauna
- Manage industrial forestry practices within the watershed

Potential Projects/cont.

- Manage siting and operation of septic tanks within watershed
- Titanium mining
- Sand mining
- Develop an ongoing forum/organization for regional discussion of/action on water-related issues
- Develop management plan for the Institute of Ecology's property adjacent to the Satilla
- Durango Paper Mill Relocation
- Research and recommend state and local strategies for protecting wetlands, including isolated wetlands

What Next?

- Pass around contact sheet
- Talk about rubric
- Talk about paddling trip
- Any questions?

Special thanks

- Georgia Department of Natural Resources
- Georgia Wildlife Federation
- Gloria Taylor and Save Our Satilla – SOS
- Jack Sandow, fisheries biologist and local expert
- UGA Natural Resources Spatial Analysis Lab – NARSAL
- Georgia River Network
- Photos: Randall Hollis, Jack Sandow and SatillaRiver.com

Reference 38

UNITED STATES DEPARTMENT OF THE INTERIOR
Harold L. Ickes, Secretary
GEOLOGICAL SURVEY
W. C. Mendenhall, Director

Bulletin 941

GEOLOGY OF THE COASTAL PLAIN OF GEORGIA

BY
G. WYTHE COOKE

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON : 1948

For sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.
Price $1.25

Georgia were formed during the glacial stages, when the climate presumably was somewhat cooler than now, and that they are not now increasing. Proof of this supposition is lacking, but peat now below tide level in Blackwater River in western Florida contains fresh-water microscopic plants (diatoms) like those of much more northern latitudes.[86] Search should be made for diatoms in the peat deposits of Georgia.

BRANDYWINE FORMATION

GENERAL FEATURES

Name.—The Brandywine formation was named in 1915[87] from a place in Prince Georges County, Md. It was later restricted[88] to the deposits that accumulated in the sea and estuaries at a stage of sea level about 270 feet higher than the present. The formation in Georgia has never been formally described, but the older name Brandywine was substituted in 1931[89] for the name Hazelhurst terrace, which was described in 1925.[90]

Distribution.—The Brandywine sea probably extended across Georgia from Screven County to Thomas County, but much of its deposits have been removed by erosion. Recognition of them is made difficult by the lack of topographic maps except in the area east of longitude 82°, where the Brandywine formation is thoroughly dissected. The generalized boundaries shown on the geologic map (pl. 1) will be greatly modified by detailed mapping.

Thickness, lithologic character, and stratigraphic relations.—The Brandywine formation probably does not much exceed 50 feet in thickness. It consists chiefly of sand and gravel resembling the coarser unconsolidated parts of the Hawthorn formation, from which much of it appears to have been derived. No fossils have been found in it. It lies unconformably on the Hawthorn and possibly other formations. Any formations that may overlie it are presumably also unconformable, for the sea probably withdrew beyond the present seacoast at the end of Brandywine time.

Economic significance.—Some of the sand and gravel deposits in the Brandywine formation may be of value for structural work or as road metal.

[86] Hanna, G. D., Diatoms of the Florida peat deposits: Florida Geol. Survey, 23d–24th Ann. Repts., pp. 68–96, pls. 1–11, 1933.

[87] Clark, W. B., The Brandywine formation of the Middle Atlantic Coastal Plain: Am. Jour. Sci., 4th ser., vol. 40, pp. 499, 505, 1915.

[88] Cooke, C. W., Seven coastal terraces in the Southeastern States: Washington Acad. Sci. Jour., vol. 21, p. 506, 1931.

[89] Idem, p. 506.

[90] Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, p. 29, 1925.

COHARIE FORMATION

GENERAL FEATURES

Name.—The Coharie formation was named in 1912 by Stephenson[91] from Great Coharie Creek in Sampson County, N. C. Cooke[92] more precisely defined it by reference to a shore line about 215 feet above sea level. The remnants of the original surface in Georgia were called the "Claxton terrace"[93] before their identity with the Coharie terrace was established.

Distribution.—Much more of the Coharie than of the Brandywine has been preserved, especially in the southern part of Georgia, where a broad stretch about 50 miles long has been cut through by only a few streams. Farther north the areas are smaller. The boundaries of the formation shown on the geologic map (pl. 1) are merely provisional because most of the Coharie areas are not included in topographic maps.

Thickness and lithologic character.—The Coharie formation consists chiefly of sand, some of which is as coarse as rice. Angular pebbles apparently derived from the Hawthorn occur in it at some places, and it contains also smooth flat beach pebbles of transparent quartz. Its thickness is doubtless variable, but probably does not much exceed 50 feet. No fossils have been found in it.

Stratigraphic relations.—If the Coharie anywhere lies on the Brandywine formation, the relations are probably unconformable, for the sea presumably retreated beyond the present coast line during the interval between Brandywine and Coharie time. At most places it lies unconformably on the Hawthorn formation. The inconspicuousness of the scarp separating the Coharie terrace from the next lower Sunderland terrace and the apparent straightness of the Sunderland shore line suggest that the Coharie was immediately succeeded by the Sunderland without an intermediate retreat of the sea beyond the Sunderland shore.

Economic significance.—Sand and gravel are the only deposits in the Coharie formation that are likely to be of commercial value.

SUNDERLAND FORMATION

GENERAL FEATURES

Name.—The Sunderland formation and the Sunderland terrace correspond approximately to the Okefenokee† formation and the

[91] Stephenson, L. W., The Coastal Plain of North Carolina; the Quarternary formations: North Carolina Geol. Survey, vol. 3, p. 278, 1912.

[92] Cooke, C. W., Correlation of coastal terraces: Jour. Geology, vol. 38, p. 582, 1930; Seven coastal terraces in the Southeastern States: Washington Acad. Sci. Jour., vol. 21, p. 506, 1931.

[93] Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, p. 29, 1925.

Okefenokee terrace of previous reports on Georgia.[94] The name Sunderland, proposed by Shattuck [95] for deposits in Maryland bounded by a shore line 170 feet above sea level, is the older.

Distribution.—The Sunderland formation underlies a great triangular area in the southeastern part of the State, including Okefenokee Swamp and smaller areas farther north, which were once continuous with the main area but have been separated from it by erosion. The eastern boundary of the main area is marked by Trail Ridge, an old sand spit and bar that extended northward in the Sunderland sea from an island in Clay County, Fla., to the present course of Satilla River. This ridge dams drainage from the west and is responsible for the existence of Okefenokee Swamp.

Thickness.—The Sunderland formation is thickest in Trail Ridge, which rises 60 feet above Okefenokee Swamp west of St. George, where it appears to have formed a low island. Elsewhere the ridge ranges from 20 to 30 feet in height and accumulated under water. The maximum thickness of the formation, including the Trail Ridge bar, is probably not more than 100 feet. Generally the formation is much thinner. Near Fargo it is so thin that the shallow valley of Suwannee River cuts through it into the Hawthorn formation.

Lithologic character and stratigraphic relations.—The Sunderland formation consists chiefly of fine white or light-gray sand. The lower part of the sand may be of Coharie age, but if so, it probably cannot be distinguished from the Sunderland formation, with which it presumably is conformable. In Okefenokee Swamp and other swamps the Sunderland is overlain by peat and by boggy material that has accumulated since the emergence that ended Sunderland time. During the epoch of low sea level that followed Sunderland time, erosion probably removed most of the deposits of Sunderland age from areas east of its present belt of outcrop. If any remain, they are not conformable with the younger terrace deposits that cover them.

Economic significance.—The fine sand of the Sunderland formation may be of commercial value. The peat deposits that overlie it in the Okefenokee Swamp and elsewhere do not properly form part of the formation. They may ultimately be utilized. Some of the alluvial brick clays near the Fall Line along the larger rivers may represent estuarine or fluviatile parts of the Sunderland formation.

[94] Veatch, Otto, and Stephenson, L. W., Preliminary report on the geology of the Coastal Plain of Georgia: Georgia Geol. Survey Bull. 26, 1911. Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, 1925.

[95] Shattuck, G. B., The Pleistocene problem of the North Atlantic Coastal Plain: Johns Hopkins Univ. Circ. 20, p. 14, 1901; Am. Geologist, vol. 28, pp. 102–103, 1901.

WICOMICO FORMATION

GENERAL FEATURES

Name and distribution.—The Wicomico formation, named [96] from a river in Maryland, occurs in Georgia as patches bordering the east edge of the Sunderland formation. North of the Altamaha the west edge of the Wicomico is very sinuous, with reentrants penetrating into the areas of Sunderland; south of the Satilla it abuts against the foot of Trail Ridge and is straight. Its east edge is only slightly indented. The Wicomico formation appears to be absent from the area between Altamaha and Satilla Rivers.

Thickness and lithologic character.—Few details are available as to the thickness and composition of the Wicomico. The formation is probably very thin and presumably consists chiefly of sand, but finer sediments may have accumulated in the indentations along the coast. No fossils have been found in it.

Stratigraphic relations.—The Wicomico formation has been defined [97] as the marine and estuarine Pleistocene deposits that accumulated while the sea stood about 100 feet above its present level. This epoch has been tentatively identified as the early part of the Sangamon interglacial stage.[98] From the sinuosity of its shore line and from the occurrence of stumps of trees beneath it in North Carolina and in the District of Columbia, one can infer that the Wicomico formation was deposited unconformably on a land surface by an advancing sea. At the end of the Wicomico epoch, sea level fell about 30 feet and became stabilized at a height of about 70 feet above its present level during the Penholoway stage. The part of the sea bottom (Wicomico formation) exposed by this lowering of sea level has been above water and exposed to erosion ever since.

Economic significance.—The Wicomico formation may contain workable deposits of sand or gravel and probably brick clay.

PENHOLOWAY FORMATION

GENERAL FEATURES

Name.—The Penholoway terrace was named in 1925,[99] at which time an area extending from Hortense, Brantley County, northeastward to Penholoway Creek and Penholoway Swamp, in Wayne County, was designated as the type. The Penholoway formation was

[96] Shattuck, G. B., op. cit. (Am. Geologist), p. 103.

[97] Cooke, C. W., Correlation of coastal terraces: Jour. Geology, vol. 38, p. 582, 1930; Geology of the Coastal Plain of South Carolina: U. S. Geol. Survey Bull. 867, p. 143, 1936.

[98] Cooke, C. W., Tentative ages of Pleistocene shore lines: Washington Acad. Sci. Jour., vol. 25, pp. 331–338, 1935.

[99] Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, p. 24, 1925.

Okefenokee terrace of previous reports on Georgia.[94] The name Sunderland, proposed by Shattuck [95] for deposits in Maryland bounded by a shore line 170 feet above sea level, is the older.

Distribution.—The Sunderland formation underlies a great triangular area in the southeastern part of the State, including Okefenokee Swamp and smaller areas farther north, which were once continuous with the main area but have been separated from it by erosion. The eastern boundary of the main area is marked by Trail Ridge, an old sand spit and bar that extended northward in the Sunderland sea from an island in Clay County, Fla., to the present course of Satilla River. This ridge dams drainage from the west and is responsible for the existence of Okefenokee Swamp.

Thickness.—The Sunderland formation is thickest in Trail Ridge, which rises 60 feet above Okefenokee Swamp west of St. George, where it appears to have formed a low island. Elsewhere the ridge ranges from 20 to 30 feet in height and accumulated under water. The maximum thickness of the formation, including the Trail Ridge bar, is probably not more than 100 feet. Generally the formation is much thinner. Near Fargo it is so thin that the shallow valley of Suwannee River cuts through it into the Hawthorn formation.

Lithologic character and stratigraphic relations.—The Sunderland formation consists chiefly of fine white or light-gray sand. The lower part of the sand may be of Coharie age, but if so, it probably cannot be distinguished from the Sunderland formation, with which it presumably is conformable. In Okefenokee Swamp and other swamps the Sunderland is overlain by peat and by boggy material that has accumulated since the emergence that ended Sunderland time. During the epoch of low sea level that followed Sunderland time, erosion probably removed most of the deposits of Sunderland age from areas east of its present belt of outcrop. If any remain, they are not conformable with the younger terrace deposits that cover them.

Economic significance.—The fine sand of the Sunderland formation may be of commercial value. The peat deposits that overlie it in the Okefenokee Swamp and elsewhere do not properly form part of the formation. They may ultimately be utilized. Some of the alluvial brick clays near the Fall Line along the larger rivers may represent estuarine or fluviatile parts of the Sunderland formation.

[94] Veatch, Otto, and Stephenson, L. W., Preliminary report on the geology of the Coastal Plain of Georgia: Georgia Geol. Survey Bull. 26, 1911. Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, 1925.

[95] Shattuck, G. B., The Pleistocene problem of the North Atlantic Coastal Plain: Johns Hopkins Univ. Circ. 20, p. 14, 1901; Am. Geologist, vol. 28, pp. 102–103, 1901.

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GENERAL FEATURES

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[98] Cooke, C. W., Tentative ages of Pleistocene shore lines: Washington Acad. Sci. Jour., vol. 25, pp. 331–338, 1935.

[99] Cooke, C. W., Physical geography of Georgia; the Coastal Plain: Georgia Geol. Survey Bull. 42, p. 24, 1925.

Reference 39

Georgia Department of Natural Resource
2 Martin Luther King, Jr. Drive, SE, Suite 1154, Atlanta, Georgia 3033
Noel Holcomb, Commission
Carol A Couch, Ph.D., Direct
(404) 656-283

39

TRIP REPORT

SITE NAME & LOCATION:

Seven Out LLC Tank
901 Francis Street
Waycross, Georgia 31501
Ware County
GAR000030007

TRIP BY:

Brett Blackwelder BB
Environmental Engineer
Georgia Environmental Protection Division, Hazardous Waste Management Branch, Government Facilities Unit

Edwin Williams
Advanced Geologist
Georgia Environmental Protection Division, Hazardous Waste Management Branch, Government Facilities Unit

DATE OF TRIP:

April 7-8, 2005

PURPOSE:

This Trip Report documents a Site Inspection by Brett Blackwelder and Edwin Williams representing the Hazardous Waste Management Branch of the Georgia Environmental Protection Division (GA EPD). The purpose of this inspection was to gather information for a Preliminary Assessment (PA) of Seven Out LLC Tank in Waycross, Georgia.

BACKGROUND:

Seven Out LLC Tank is the parent company of BCX, Incorporated. The GA EPD's information for the site at 901 Francis Street in Waycross is filed under BCX, Inc. Waycross Facility. This site has the EPA Identification Number GAR000030007. The Ware County Assessor's Office lists the property at 901 Francis Street as owned by Seven Out LLC, A Florida LC Company. The address for Seven Out LLC is listed as 1859 East Adams Street, Jacksonville, Florida, 32202. The United States Environmental Protection Agency (US

EPA) refers to the site at 901 Francis Street as the Seven Out LLC Site. For consistency the site will be referred to as the Seven Out LLC Site for the remainder of this report. The GA EPD received the EPA Notification of Regulated Waste Activity (EPA Form 8700-12) from the facility on December 11, 2001. The facility notified as a used oil processor. However, GA EPD files indicate that the facility primarily accepted "non-hazardous wastewater" as identified on facility manifests.

COMMENTS:

The first visit to the site was on Thursday April 7, 2005, at approximately 2:30 pm. At the time of the visit there was steady rainfall. A windshield survey of the site was performed from the State vehicle. The site did not appear to be in use. Using a GPS (Global Positioning System) receiver the sites geographic coordinates were determined to be latitude 31 degrees 12 minutes 26.8 seconds North and longitude 82 degrees 21 minutes 49.8 seconds West. The GPS receiver indicated an elevation of 147 feet above sea level. The building at 901 Francis Street was closed and locked (See Photographs 24, 43, and 44). East of this building at 801 Francis Street is a building, which houses The Sports Shop, Inc. Mr. Bennie James owns the Sport Shop Inc. building and property. Immediately behind this building is the used oil processing plant or "tank farm" (See Photographs 1-8 and 17-19). The tank farm is separated from the building at 901 Francis Street by a combined asphalt and concrete parking area.

The area surrounding the Seven Out LLC facility is a mixed use area including commercial, industrial, and residential property (See Photographs 40-42 and 45-47). Included are The Sports Shop, Inc., NASCO Engine Rebuilding, Praxair Distribution SE (welding supplies, industrial and scientific gases, etc.), and Tri-State Technical Services (commercial laundry equipment). The nearest residential property is located at 103 Folks Street approximately 200 feet from the tank farm area (See Photograph 46). The property south of the site is owned by CSX Railroad. Four frac tanks from the site are located on CSX property (See Photographs 13-14).

The two primary areas of concern are the tank farm and the frac tanks. Stained soil has been observed outside the secondary containment in place around the tank farm (See Photograph 4) and near the frac tanks. The tank farm and the area containing the frac tanks are separated by railroad tracks and a drainage ditch (See Photographs 9-12). Drainage from the site flows into the drainage ditch, which flows west approximately 1300 feet into an unnamed creek. A resident at 1310 Alpha Street stated that the creek always had water in it and that she had never observed anyone fishing in the creek. The Probable Point of Entry (PPE) would be at the point where the drainage ditch meets the unnamed creek. This creek flows northeast for approximately 2000 feet before continuing underground by culvert. Water then flows underground in an east direction for approximately 3000 feet before exiting near the intersection of Lee Avenue and Memorial Drive (Hwy 23). Water then flows east for less than 1000 feet into the City Drainage Canal. The City Drainage Canal flows in an northeast direction for approximately 2.8 miles before joining the Satilla River. An

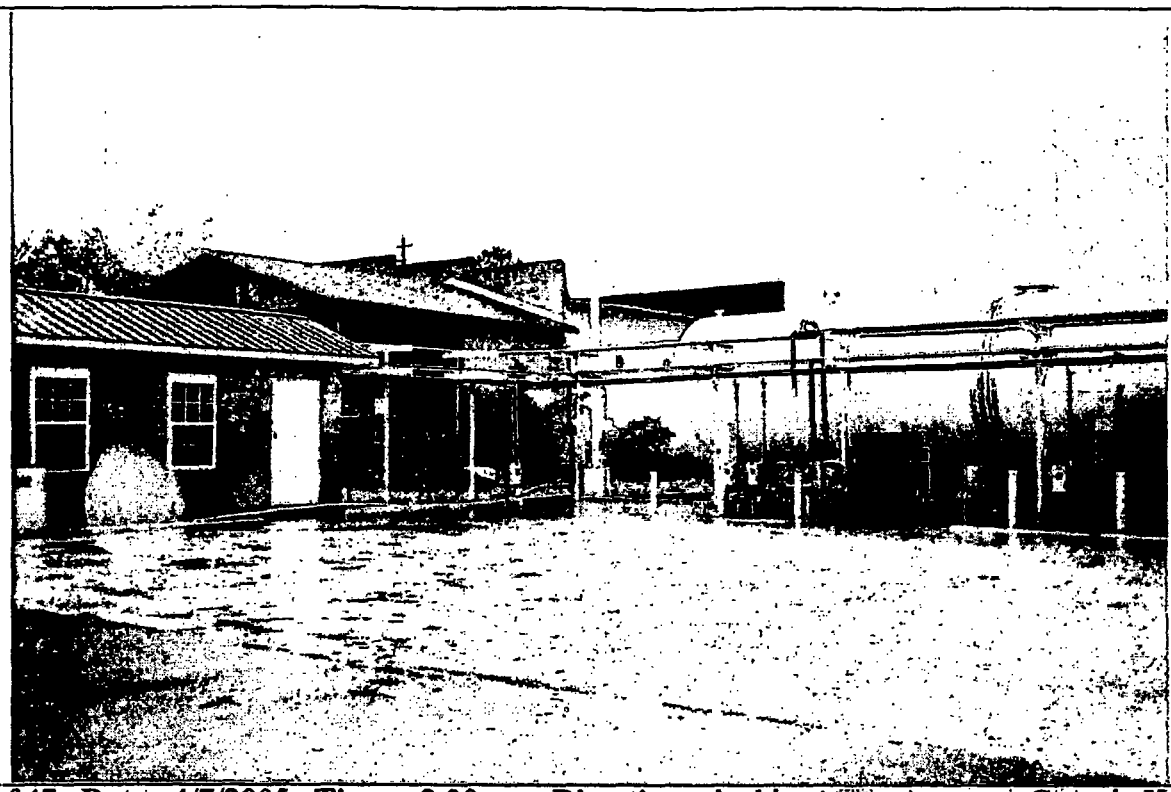
employee of Winges Bait and Tackle located at 427 Memorial Drive stated that children sometimes fish for brim in the City Drainage Canal, however most fishing is done in the Satilla River.

Research on the history of the Seven Out LLC Tank site included visits to the Ware County Tax Assessor's office at 215 Oak Street and the Ware County Courthouse at 800 Church Street, both located in Waycross. Historical property information is taken largely from information found on Sanborn Fire Insurance Maps. The building at 901 Francis Street is shown as a Coca-Cola Bottling Co. building on a map dated March 1922. The Sanborn Map for 1930 shows additions were made to this building. The Sport Shop Inc. building is shown on the 1922 Sanborn Map as P.A. Hay Co. and described as a grocery warehouse with part of the building used for hay and feed. The site of the tank farm is shown on the 1922 Sanborn Map as having a building marked John D. Hopkins and used for storing hay and grain and in 1930 grocery was added.

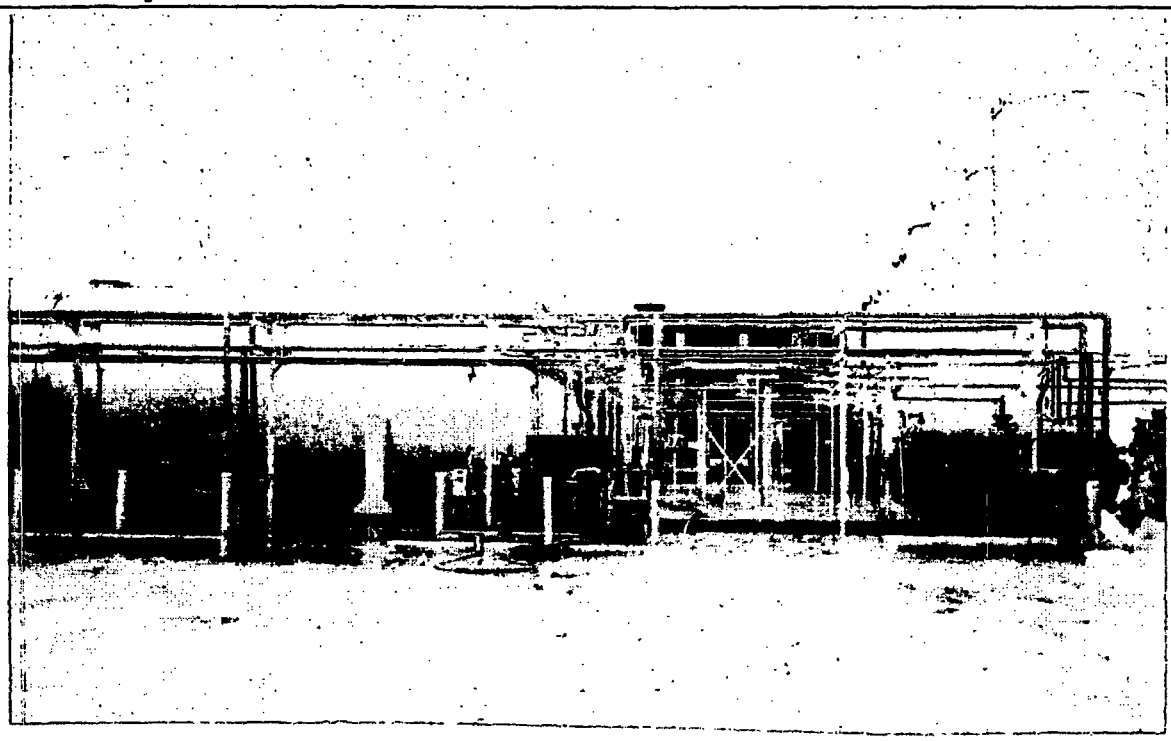
Another visit to the site was made on the morning of Friday April 8, 2005. The rain had ceased and upon arrival it was discovered that contractors were working at the site. Mr. Terry Stilman, EPA On-scene Coordinator (OSC), was present at the site and Mr. Shane Raiford with the United States Coast Guard, representing EPA was also present. The contractors were pumping rainwater out of the tank farm secondary containment area.

ATTACHMENTS: Forty-Seven (47) Photographs

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

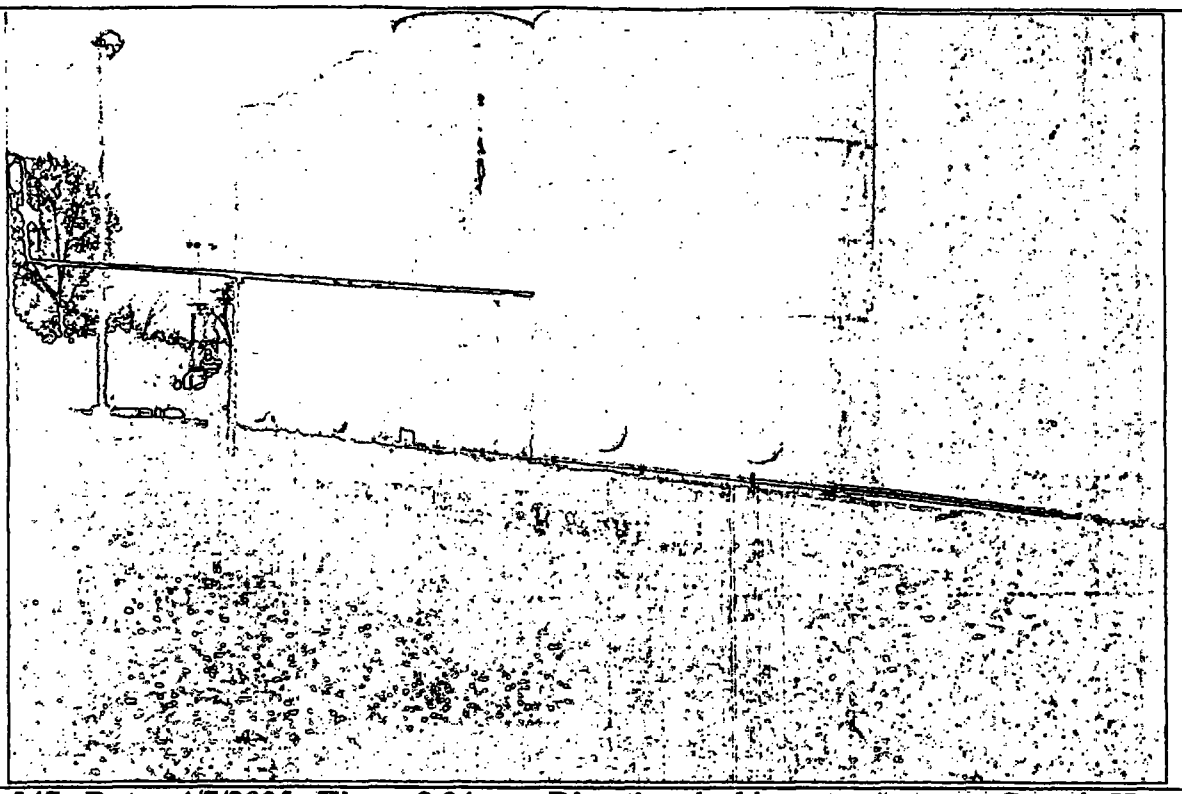


Picture: 1 of 47 **Date:** 4/7/2005 **Time:** 2:30 pm **Direction:** looking NE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of back southwest corner of wastewater treatment plant.

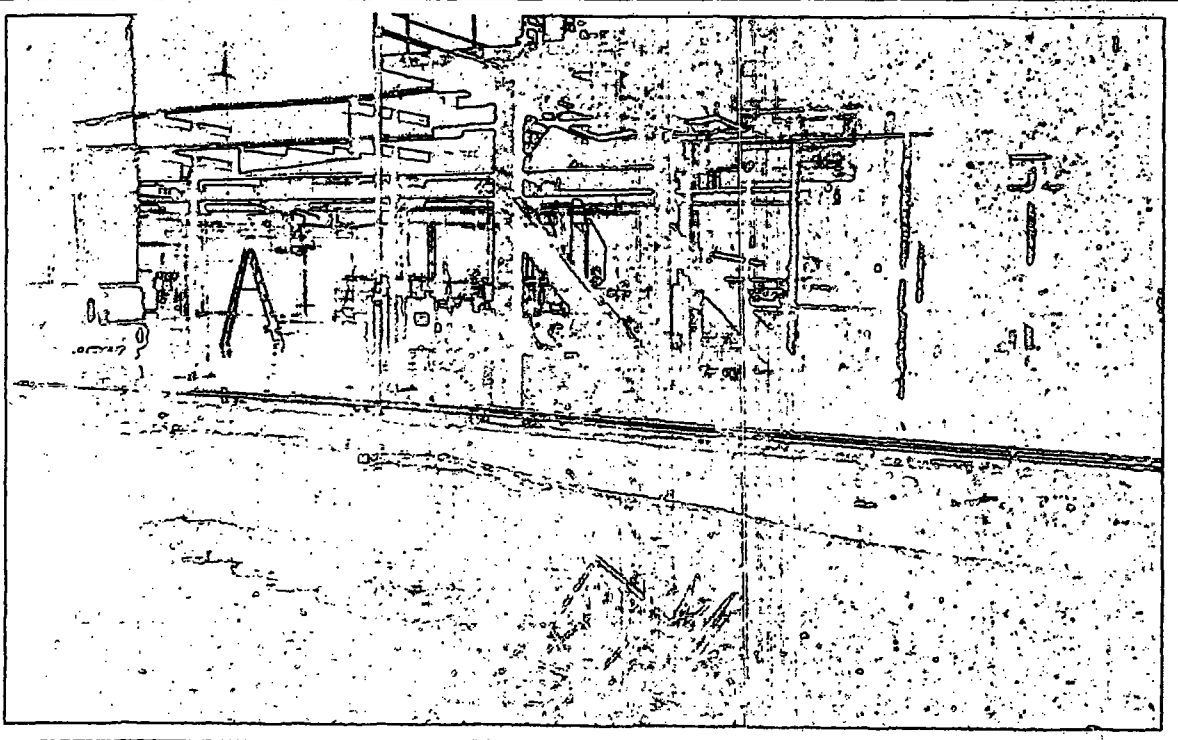


Picture: 2 of 47 **Date:** 4/7/2005 **Time:** 2:32 pm **Direction:** looking E **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of back south side of wastewater treatment plant.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

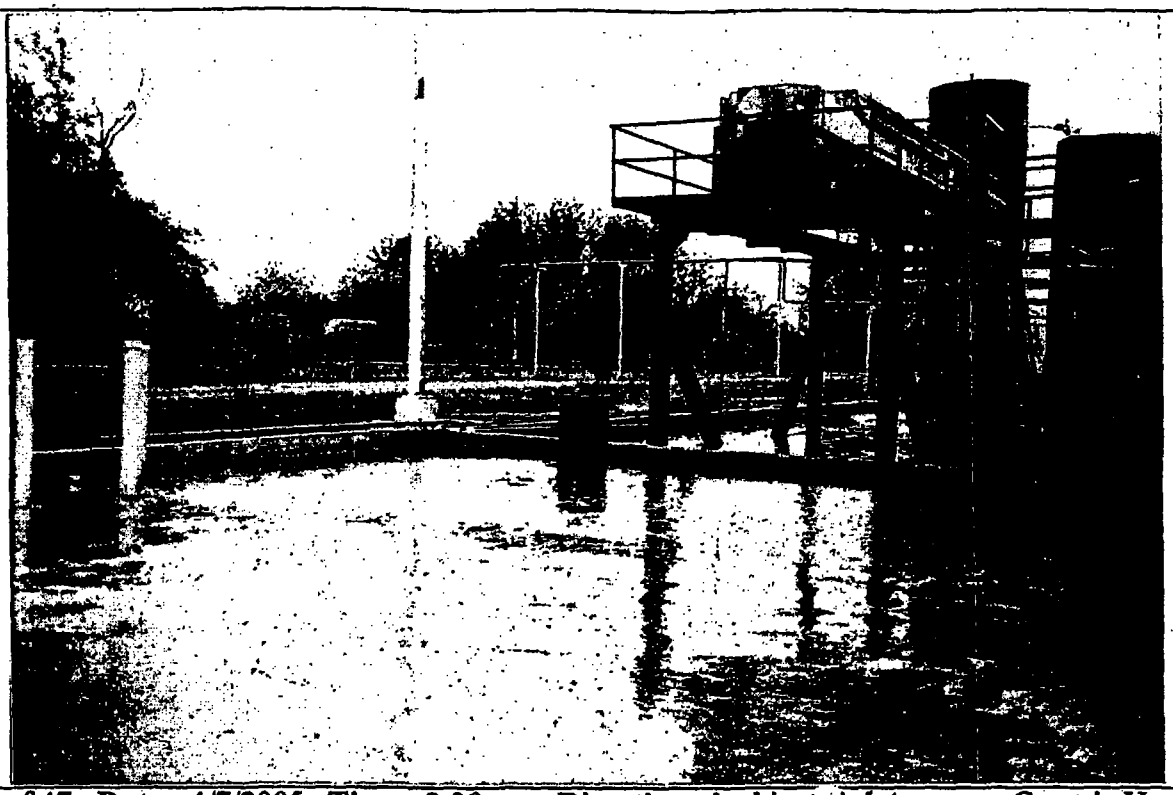


Picture: 3 of 47 **Date:** 4/7/2005 **Time:** 2:34 pm **Direction:** looking NW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of wastewater storage tanks on the east side of the wastewater treatment plant.

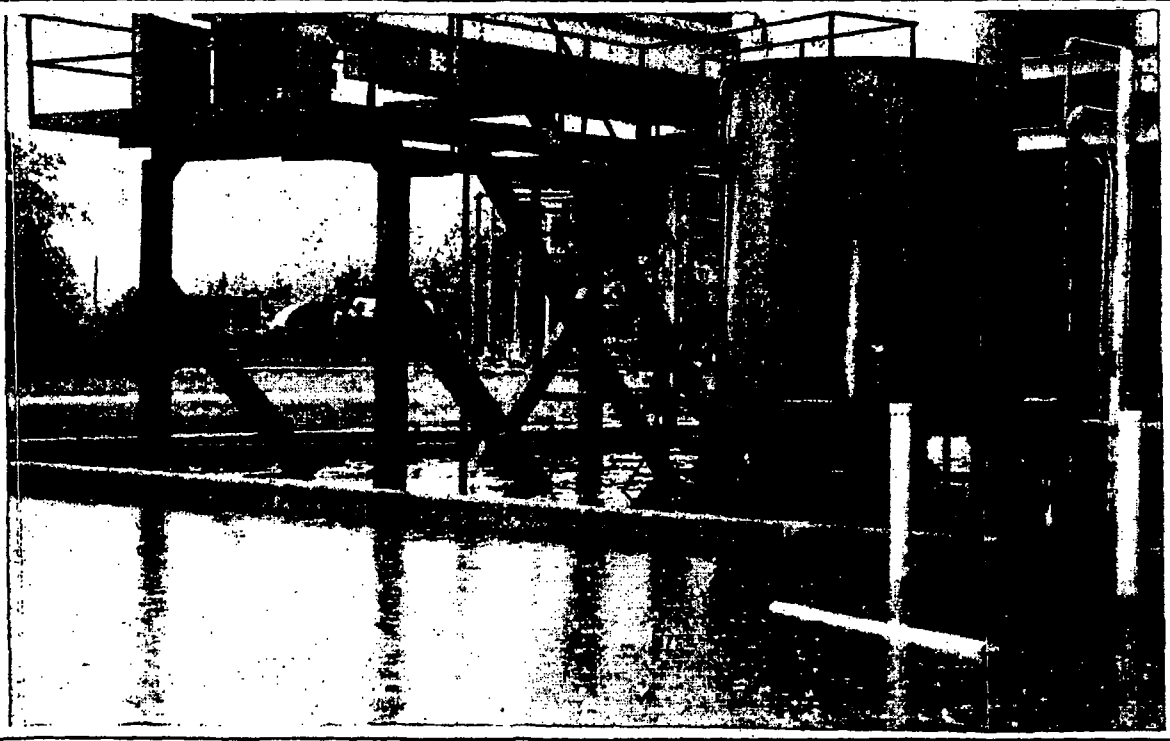


Picture: 4 of 47 **Date:** 4/7/2005 **Time:** 2.36 pm **Direction:** looking NW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of east side of wastewater treatment plant. Note stained soil/sawdust outside of containment area.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

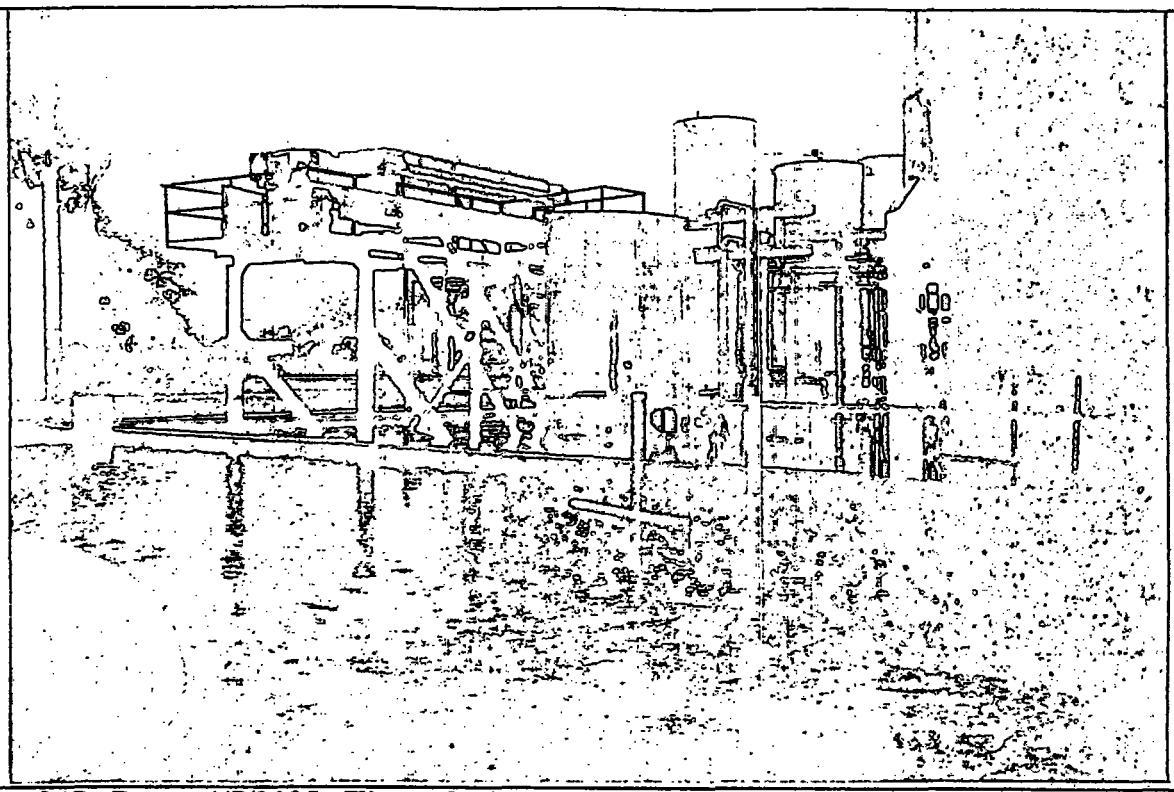


Picture: 5 of 47 **Date:** 4/7/2005 **Time:** 2:38 pm **Direction:** looking SW **Agency:** Georgia Hazardous /aste Management Branch **Photographer:** Eddie Williams **Subject:** View of standing rainwater in the econdary containment on the east side of the wastewater treatment plant.

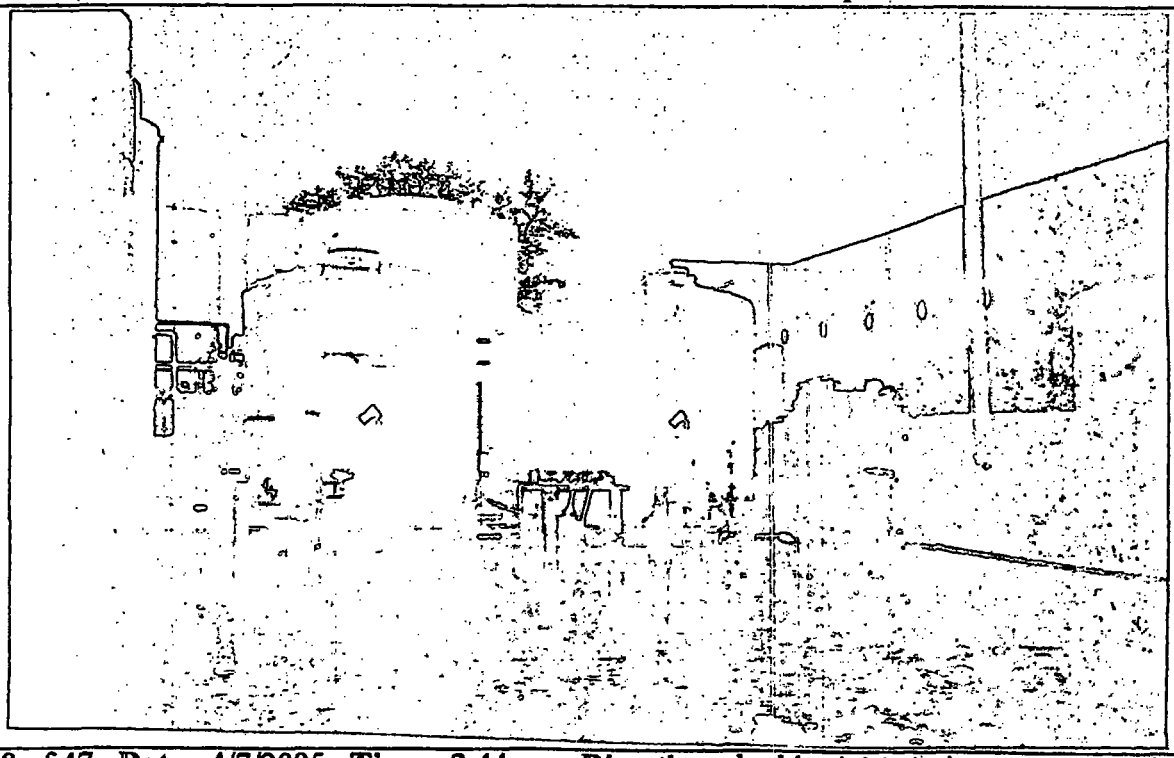


'icture: 6 of 47 **Date:** 4/7/2005 **Time:** 2:40 pm **Direction:** NA **Agency:** Georgia Hazardous Waste Iana gement Branch **Photographer:** Eddie Williams **Subject:** Additional view of ponded rainwater on the outside of the plant's secondary containment.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



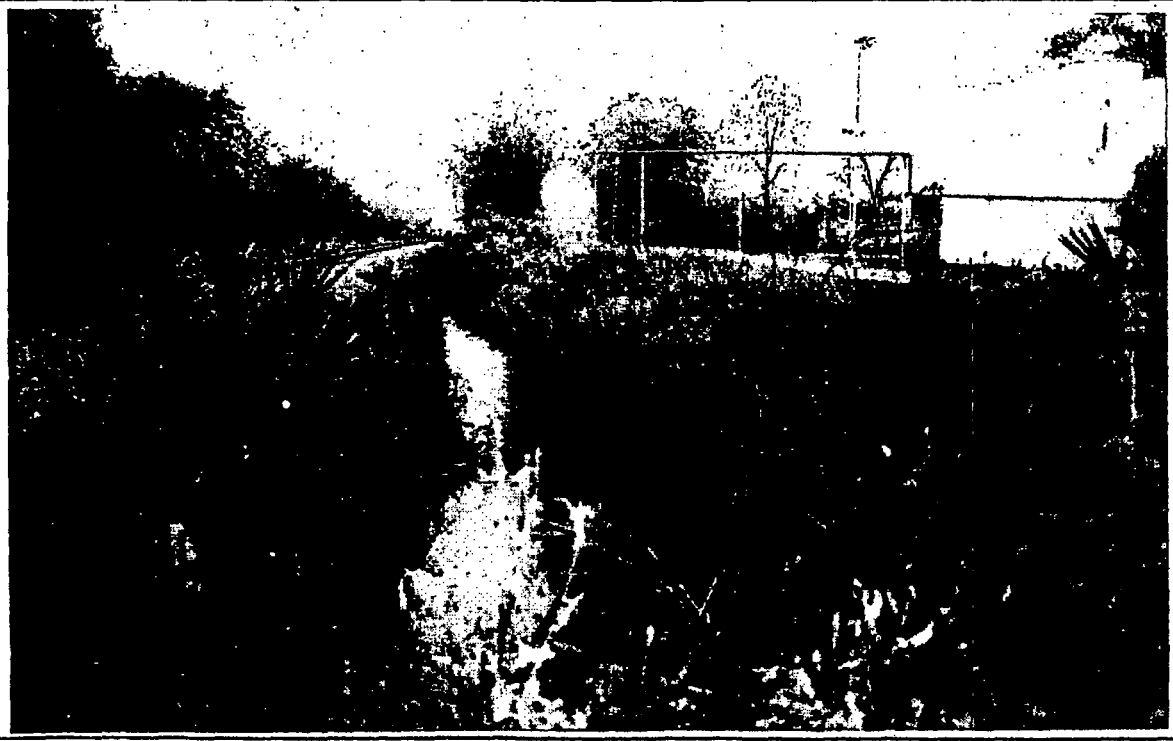
Picture: 7 of 47 **Date:** 4/7/2005 **Time:** 2:42 pm **Direction:** looking SW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of standing rainwa in the secondary containment on the east side of the wastewater treatment plant.



Picture: 8 of 47 **Date:** 4/7/2005 **Time:** 2:44 pm **Direction:** looking WNW **Agency:** Georgia Hazardou Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of chemical treatment tanks on the east side of the wastewater treatment plant.

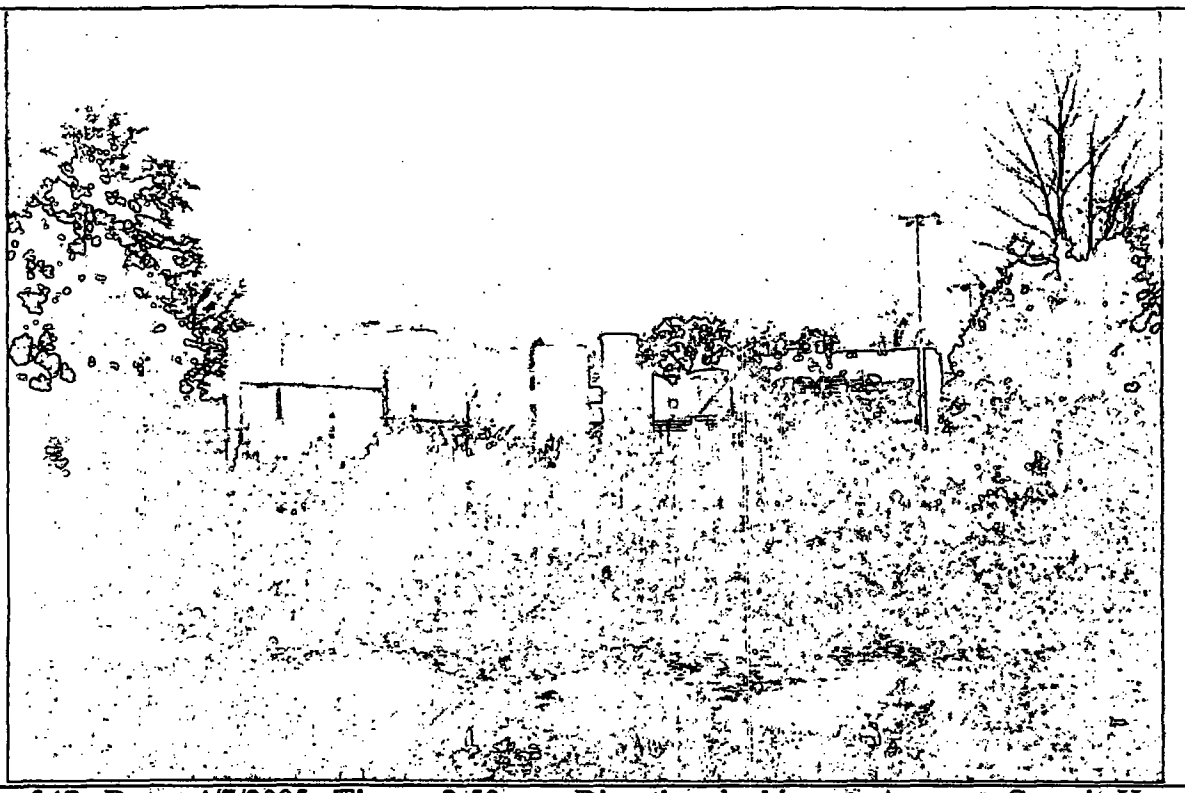
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 9 of 47 **Date:** 4/7/2005 **Time:** 2:46 pm **Direction:** looking SW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of storm water drain at the edge of parking lot between 901 Francis Street and 801 Francis Street. Drain empties to ditch on east side of facility.



Picture: 10 of 47 **Date:** 4/7/2005 **Time:** 2:48 pm **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of drainage ditch located on east side of facility where suspected improper wastewater discharges may have occurred.

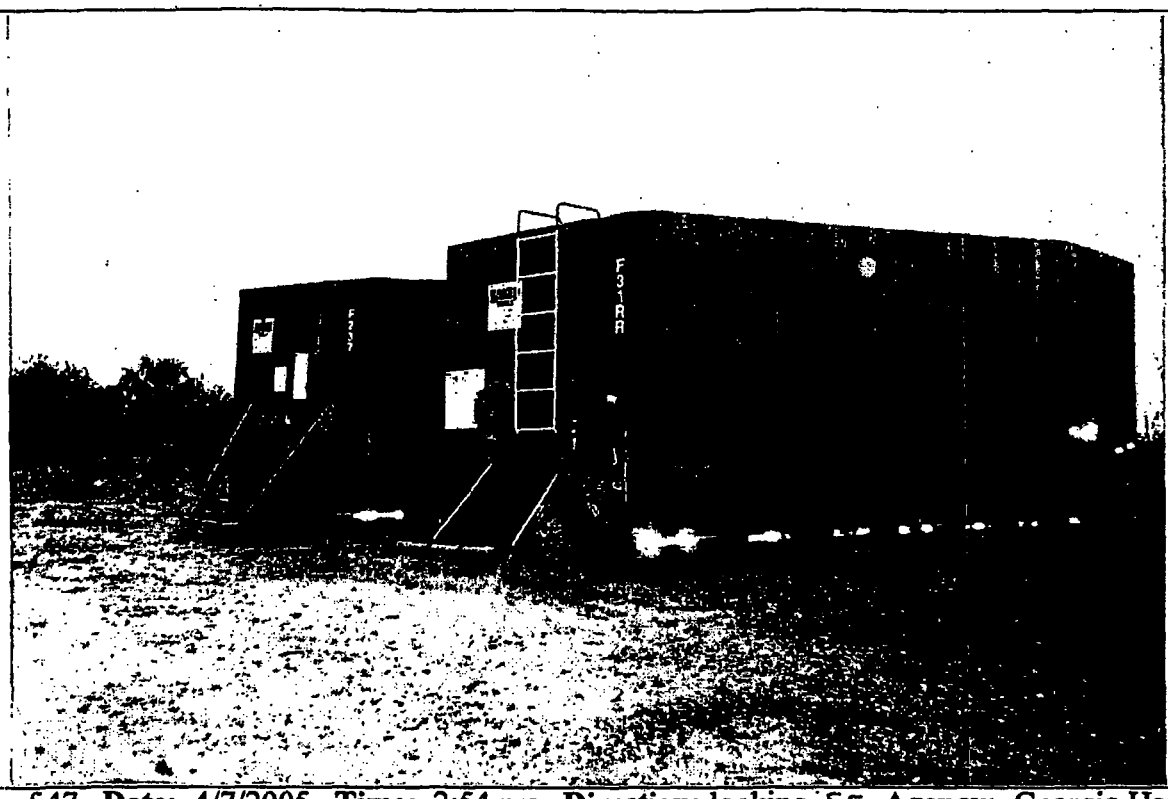
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



Picture: 11 of 47 **Date:** 4/7/2005 **Time:** 2:50 pm **Direction:** looking N **Agency:** Georgia Hazardous 'aste Management Branch **Photographer:** Eddie Williams **Subject:** View of facility's storage tanks with the drainage ditch in the foreground.

'cture: 12 of 47 **Date:** 4/7/2005 **Time:** 2:52 pm **Direction:** looking NW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of ditch area where drainage from site flows under railroad tracks and discharges into drainage ditch on east side of facility.

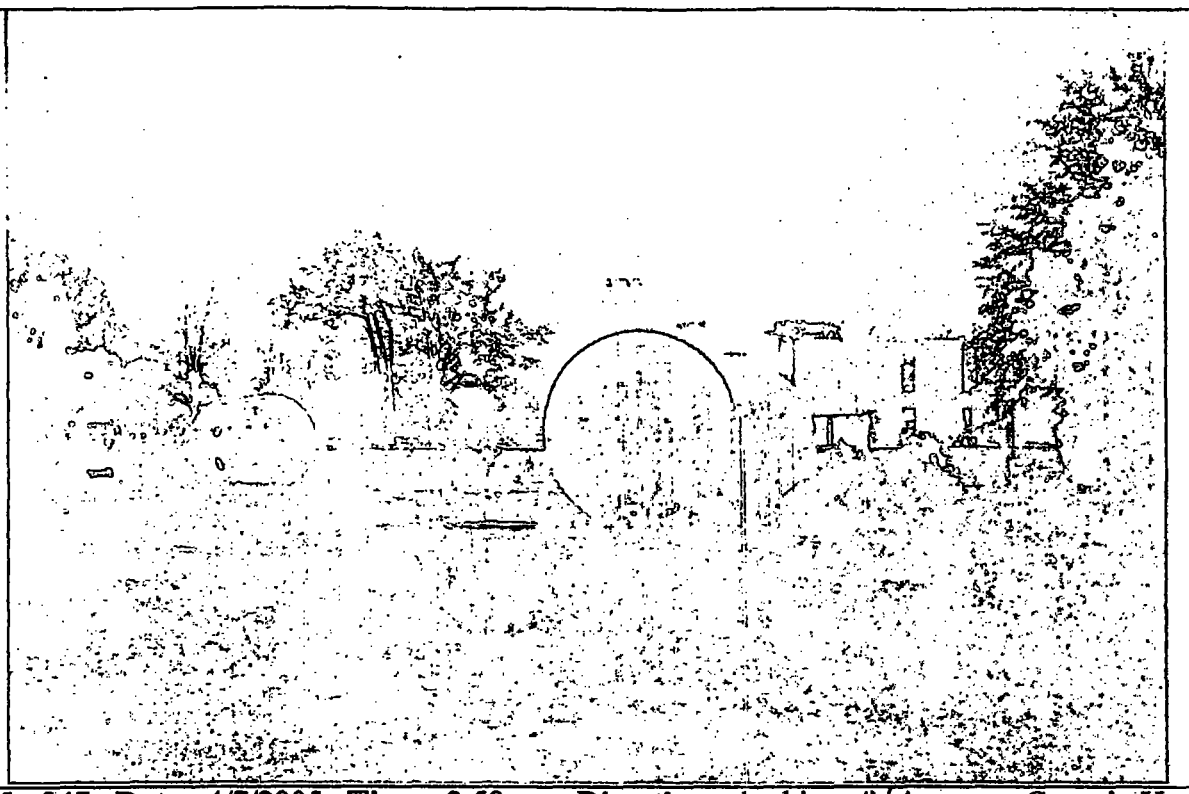
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



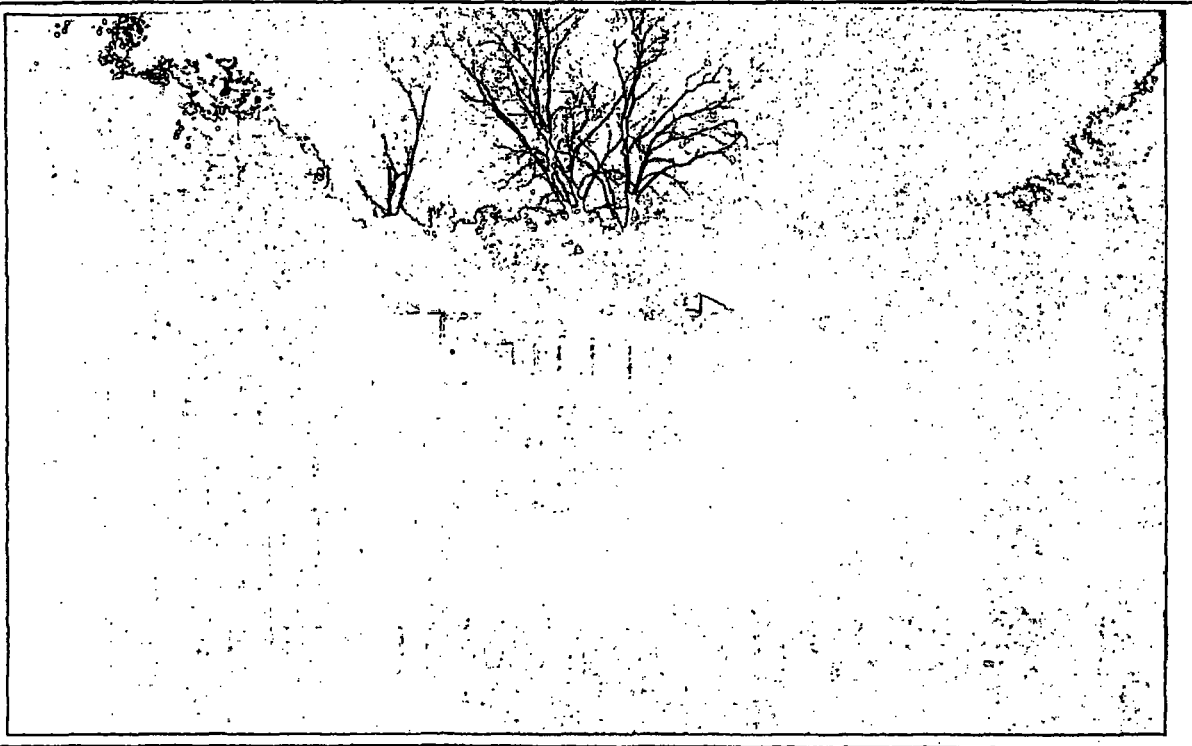
Picture: 13 of 47 **Date:** 4/7/2005 **Time:** 2:54 pm **Direction:** looking SE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams Subject: View of "frac" tanks on CSX rail property. Tanks were used to store wastewater for future treatment.

Picture: 14 of 47 **Date:** 4/7/2005 **Time:** 2:56 pm **Direction:** looking SE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject**: Additional view of the "frac" tanks on the CSX rail property.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

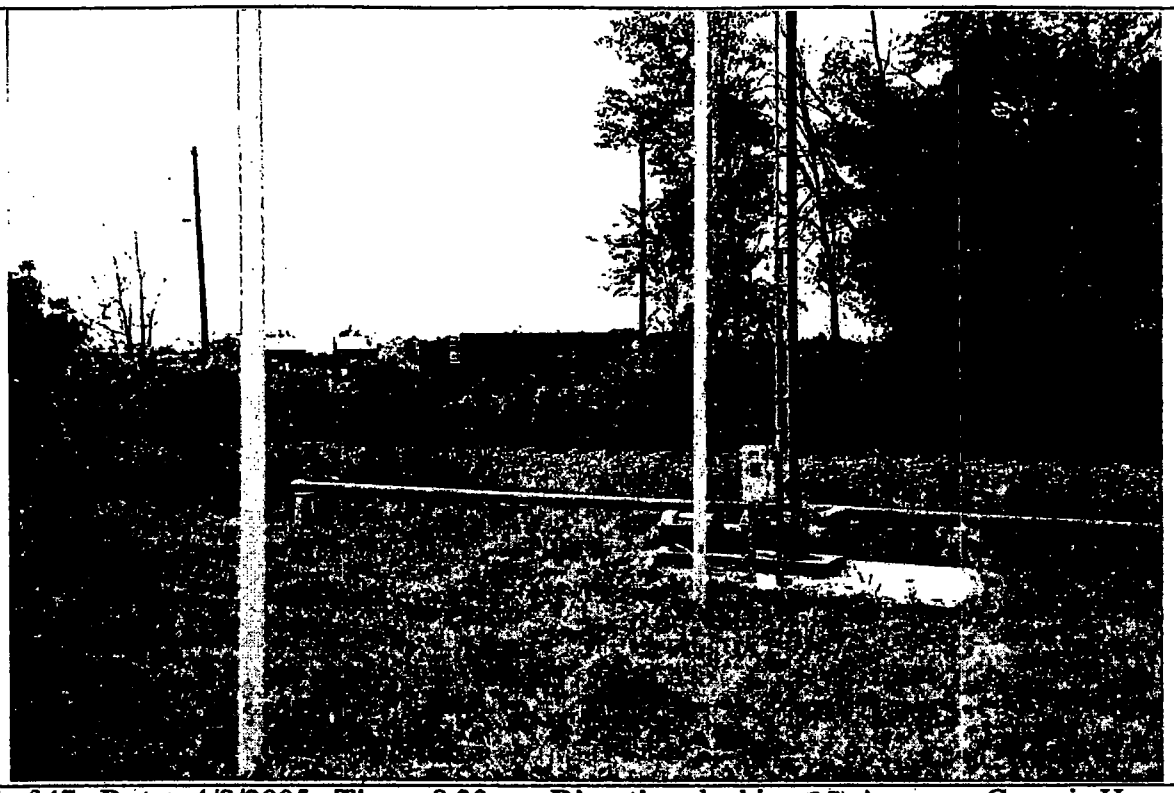


Picture: 15 of 47 **Date:** 4/7/2005 **Time:** 2:58 pm **Direction:** looking NW **Agency:** Georgia Hazardous /aste Management Branch **Photographer:** Eddie Williams **Subject:** View of some ASTs abandoned on the property of CSX rail where the "frac" tanks were stored.



'icture: 16 of 47 **Date:** 4/7/2005 **Time:** 3:15 pm **Direction:** looking N **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of a portion of the surface water pathway located northwest of the facility.

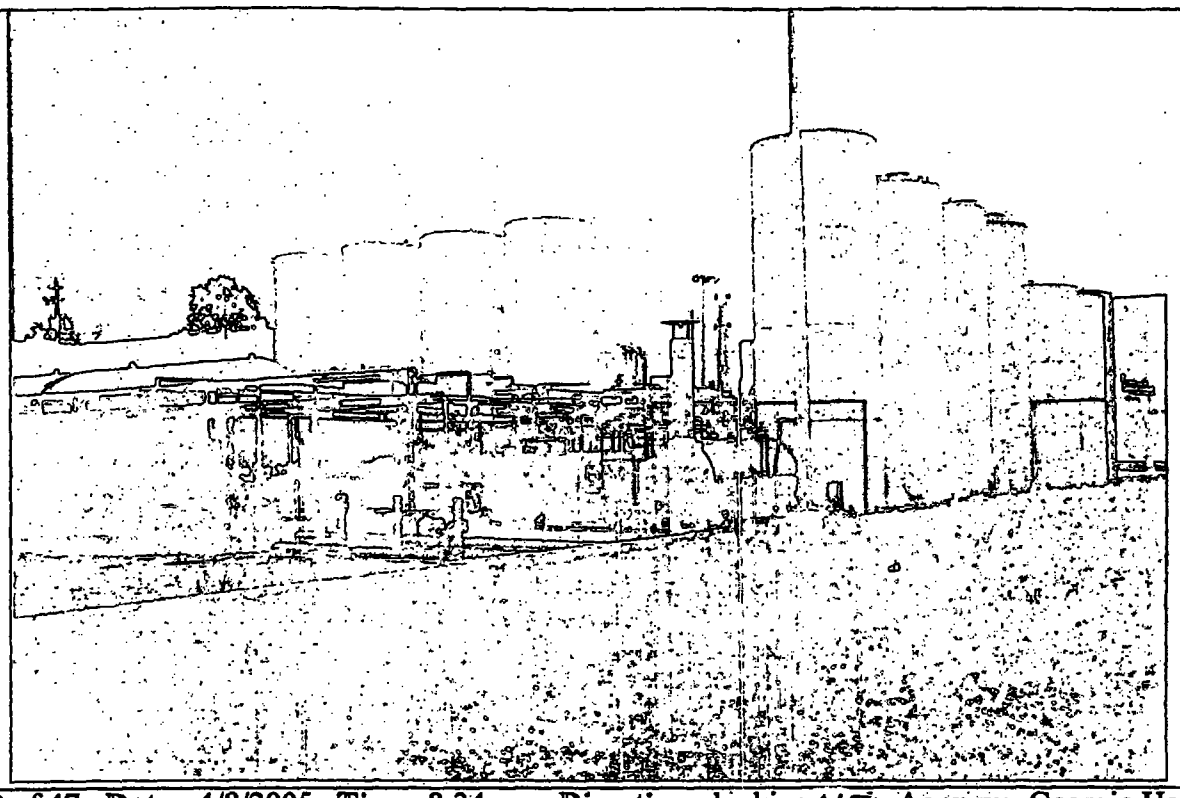
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



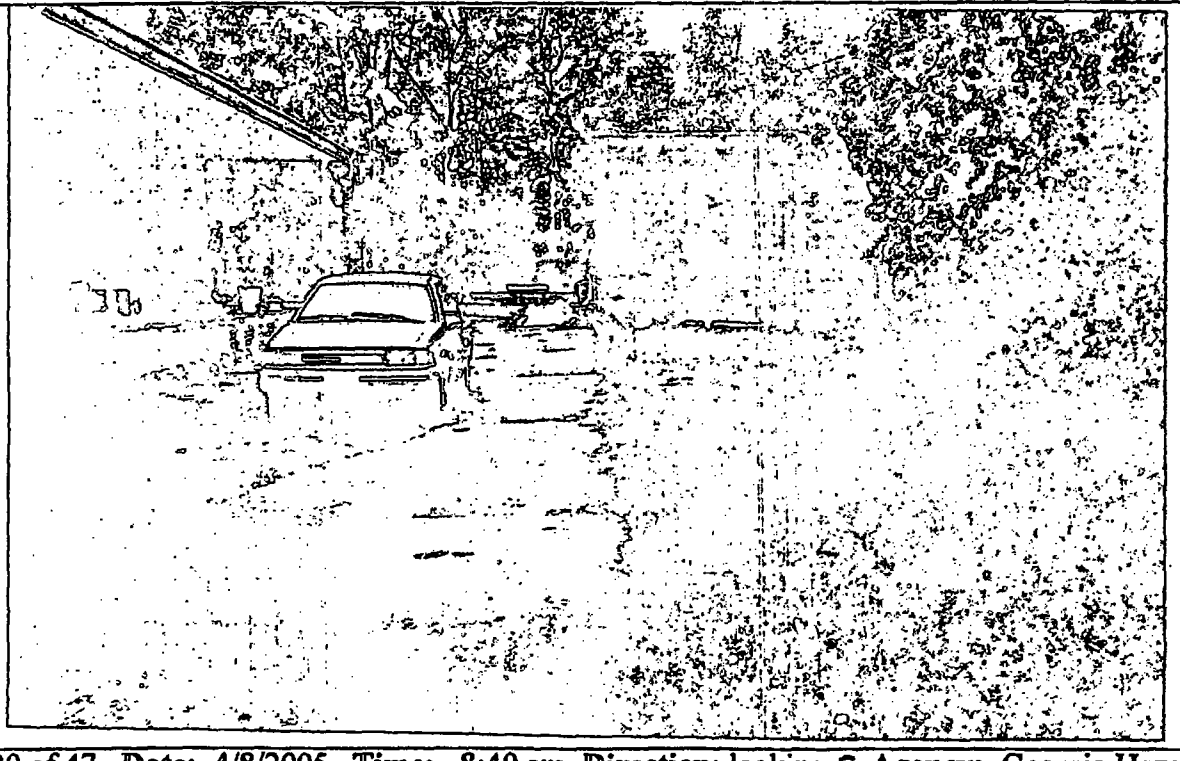
Picture: 17 of 47 **Date:** 4/8/2005 **Time:** 8:30 am **Direction:** looking SE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of some of the piping outside of the secondary containment system of the wastewater treatment plant.

Picture: 18 of 47 **Date:** 4/8/2005 **Time:** 8:32 am **Direction:** looking E **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of soil on east side of wastewater treatment plant.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

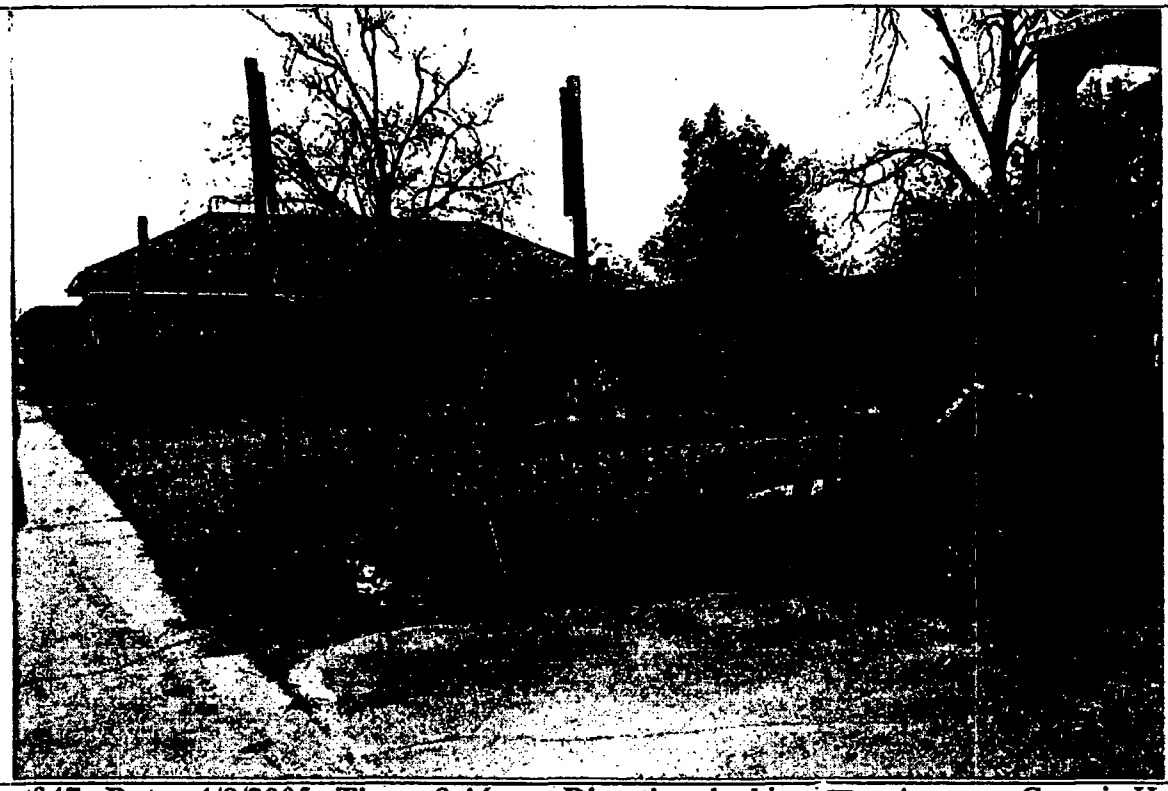


Picture: 19 of 47 **Date:** 4/8/2005 **Time:** 8:34 am **Direction:** looking NE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of wastewater treatment plant from SE corner.

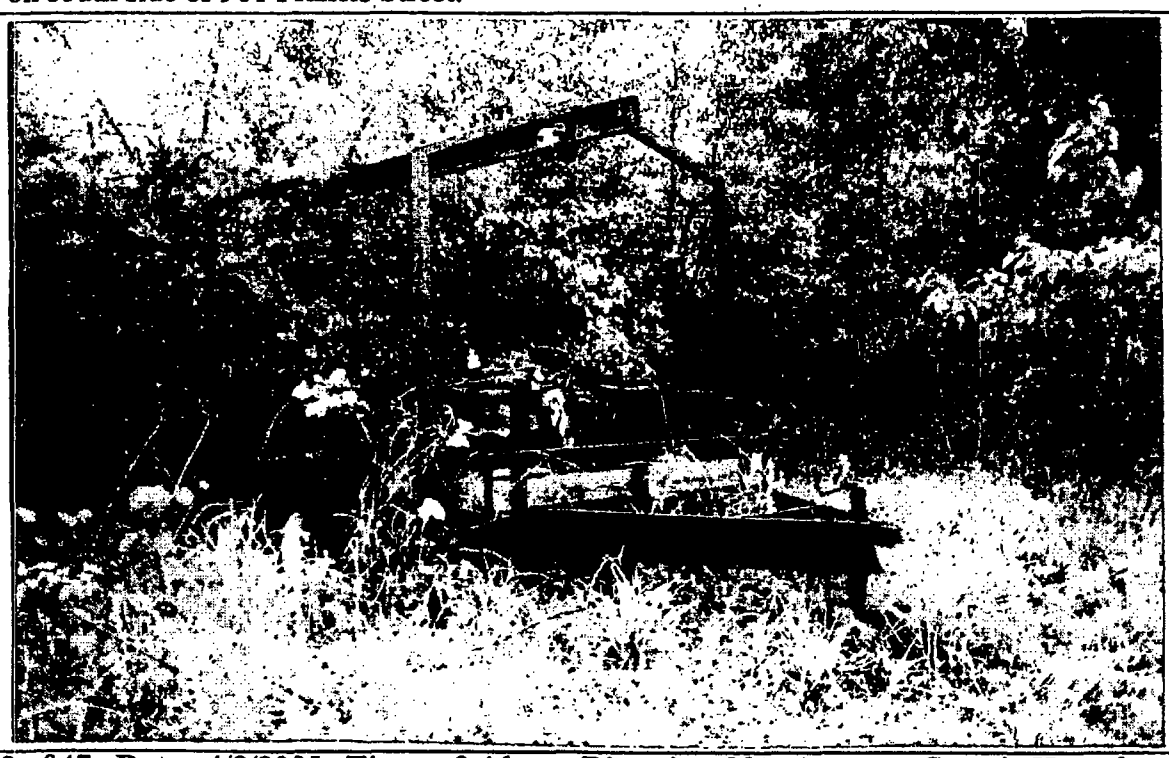


Picture: 20 of 47 **Date:** 4/8/2005 **Time:** 8:40 am **Direction:** looking S **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of south side of property attached to 901 Francis Street (main office of Seven Out LLC).

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

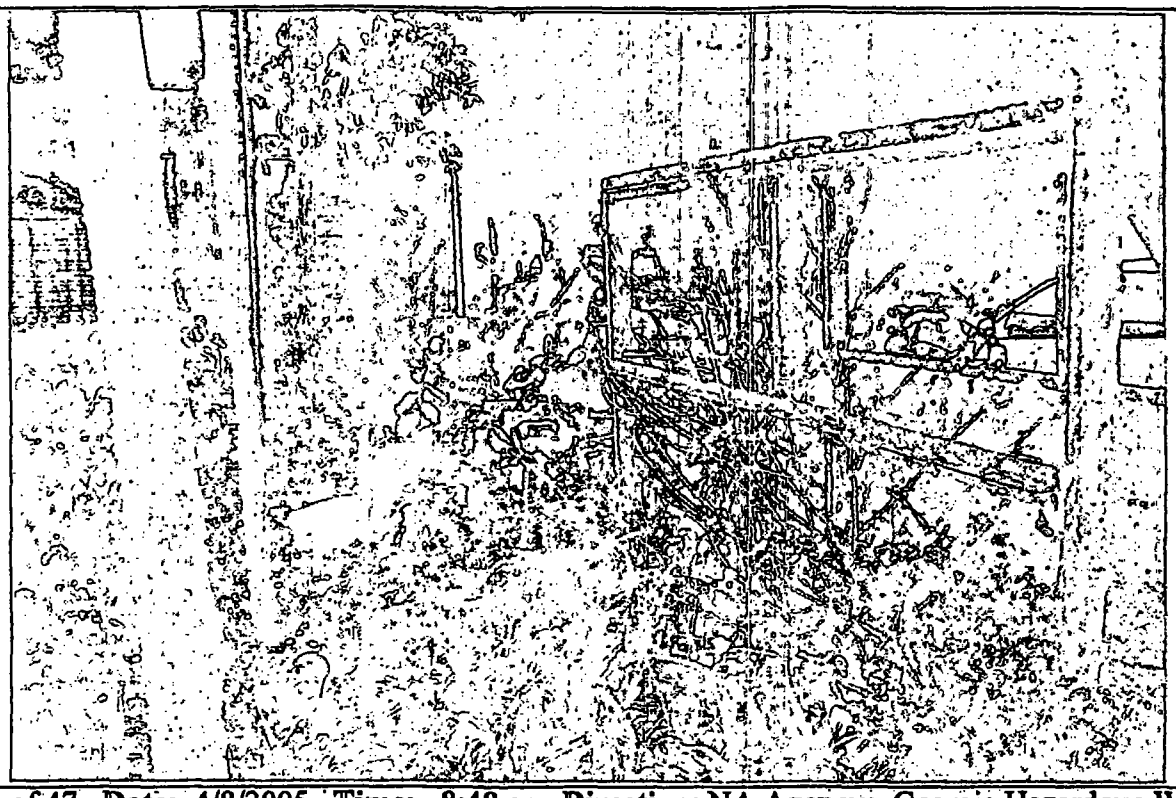


Picture: 21 of 47 **Date:** 4/8/2005 **Time:** 8:44 am **Direction:** looking E **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of 901 Francis Street property and vacant on south side of 901 Francis Street.

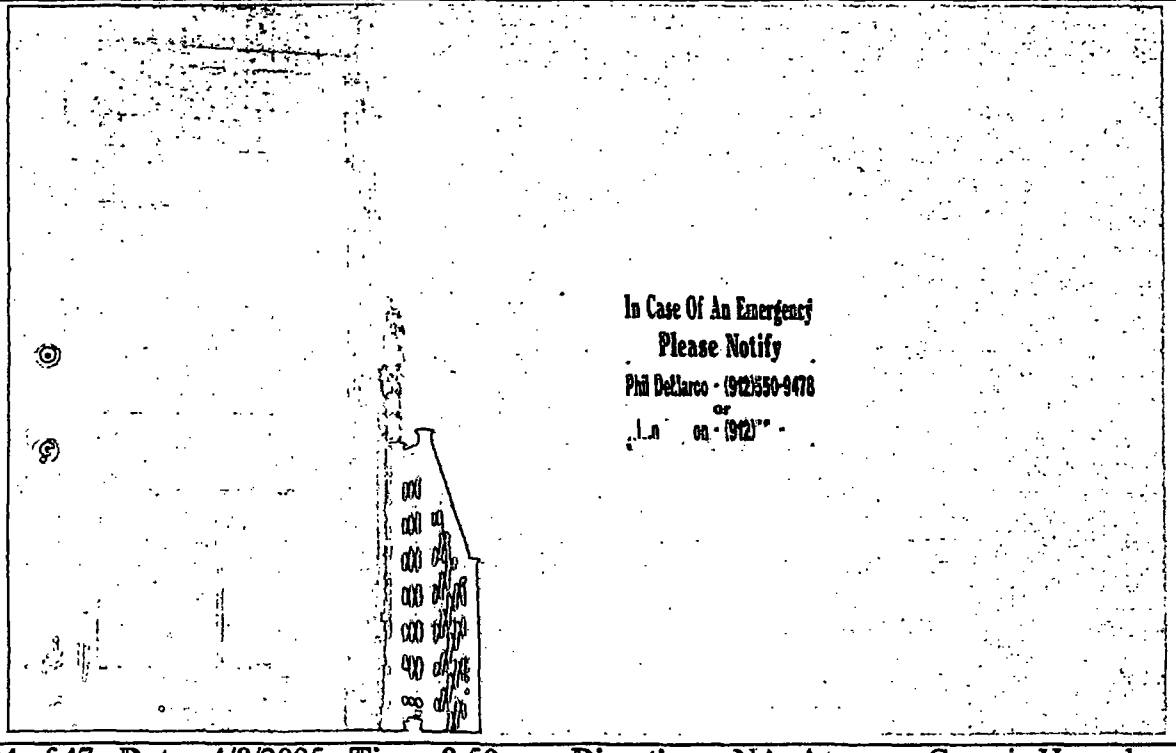


Picture: 22 of 47 **Date:** 4/8/2005 **Time:** 8:46 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of abandoned trailer with used engine parts on vacant lot next to 901 Francis Street. Trailer is backed up to property line.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



Picture: 23 of 47 **Date:** 4/8/2005 **Time:** 8:48 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of used engine parts on the lot two lots south of 901 Francis Street at the Engine Rebuilders facility.



Picture: 24 of 47 **Date:** 4/8/2005 **Time:** 8:50 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of contact information for the 901 Francis Street location.

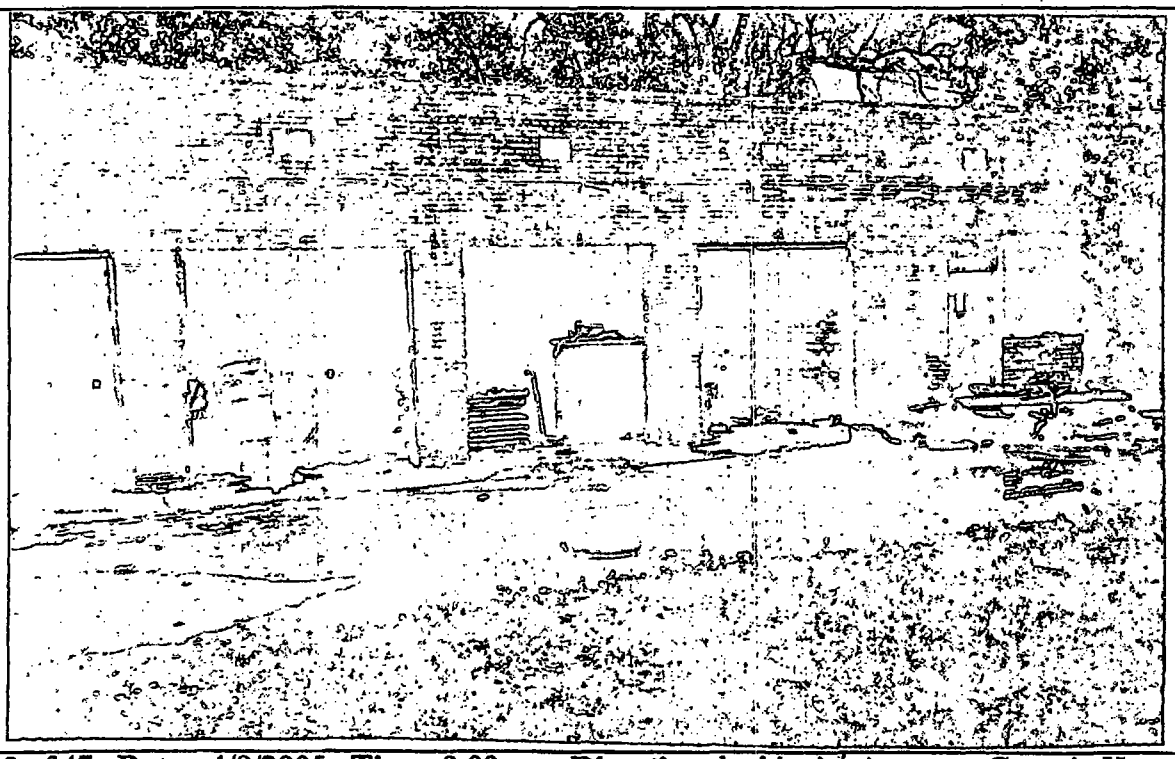
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 25 of 47 **Date:** 4/8/2005 **Time:** 8:54 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of floor drain inside 901 Francis Street.

Picture: 26 of 47 **Date:** 4/8/2005 **Time:** 8:56 am **Direction:** looking SW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of southeast corner of open area of 901 Francis Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 27 of 47 **Date:** 4/8/2005 **Time:** 8:58 am **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of south side of open area of 901 Francis Street.



Picture: 28 of 47 **Date:** 4/8/2005 **Time:** 9:00 am **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of southwest side of open area of 901 Francis Street

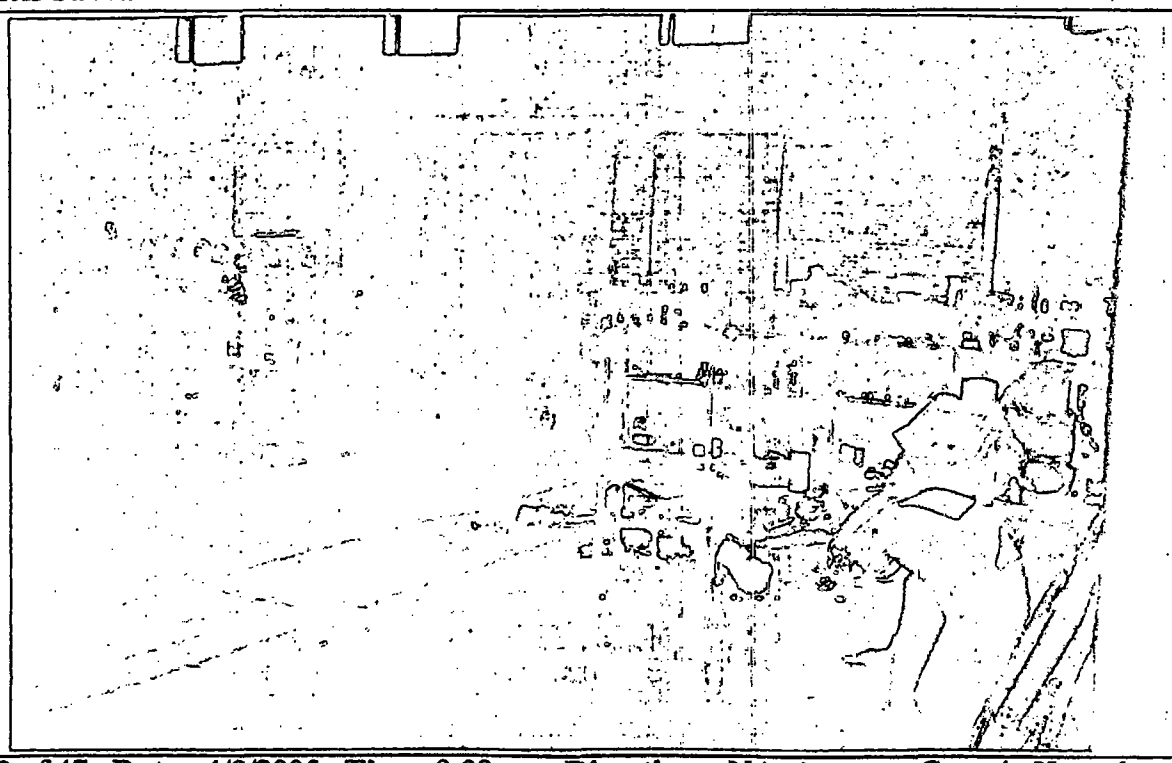
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 29 of 47 **Date:** 4/8/2005 **Time:** 9:02 am **Direction:** looking NW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of south and southwest side of open area at 901 Francis Street.

Picture: 30 of 47 **Date:** 4/8/2005 **Time:** 9:04 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of interior of one of rooms of annex to 901 Francis Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

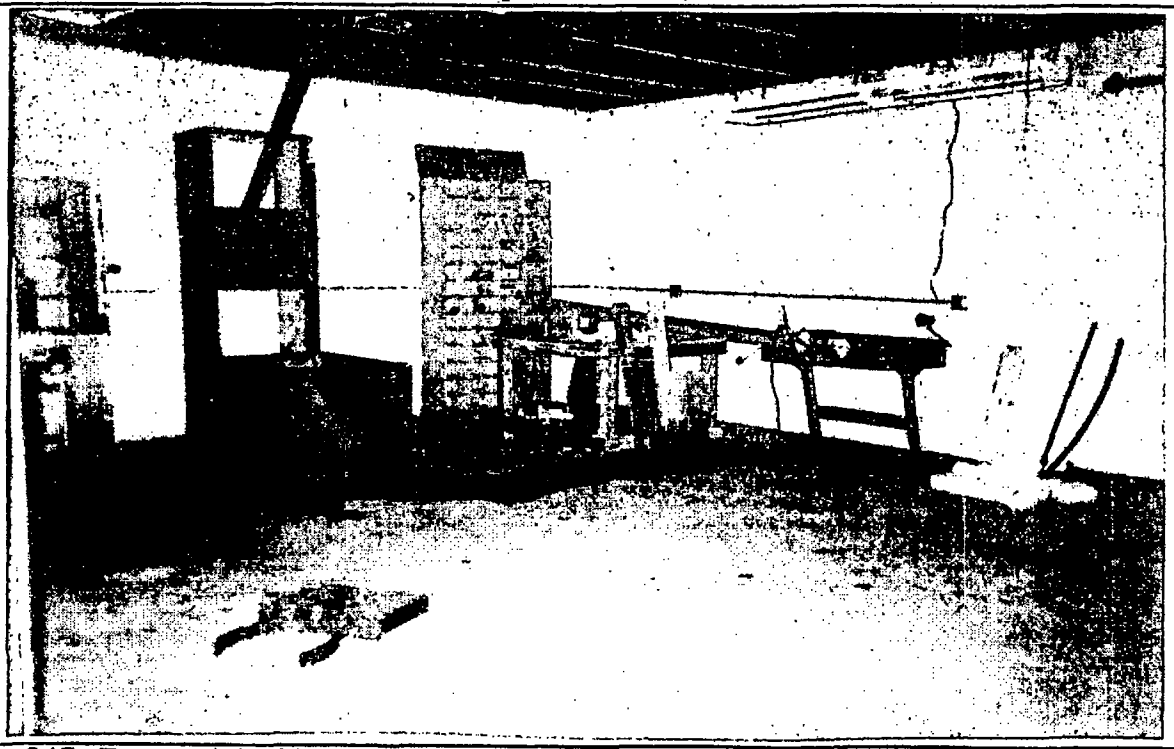
Picture: 31 of 47 **Date:** 4/8/2005 **Time:** 9:06 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of interior of additional part of annex of 901 Francis Street.



Picture: 32 of 47 **Date:** 4/8/2005 **Time:** 9:08 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of interior of 901 Francis Street showing supplies and materials in use by EPA Removal Contractor.

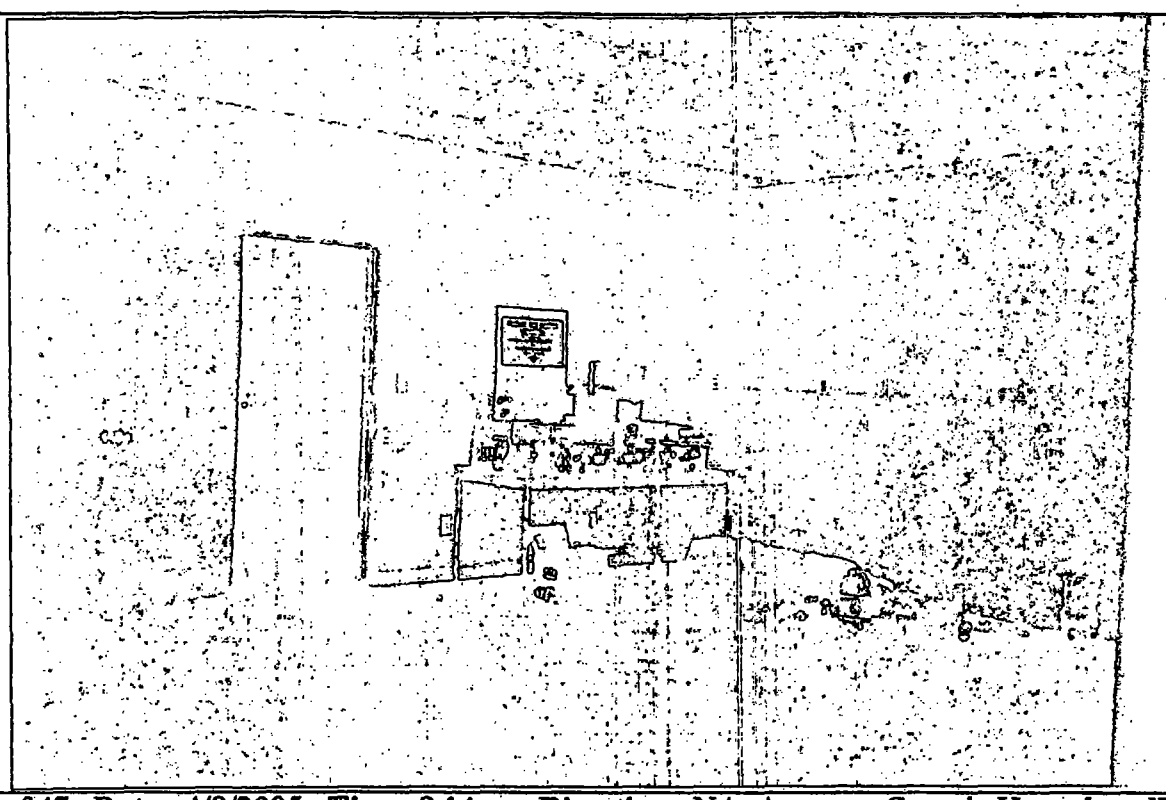
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 33 of 47 **Date:** 4/8/2005 **Time:** 9:10 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of inside of 901 Francis Street, used by EPA Removal Contractor as their operation's base.



Picture: 34 of 47 **Date:** 4/8/2005 **Time:** 9:12 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of inside of 901 Francis Street, used by EPA Removal Contractor as their operation's base.

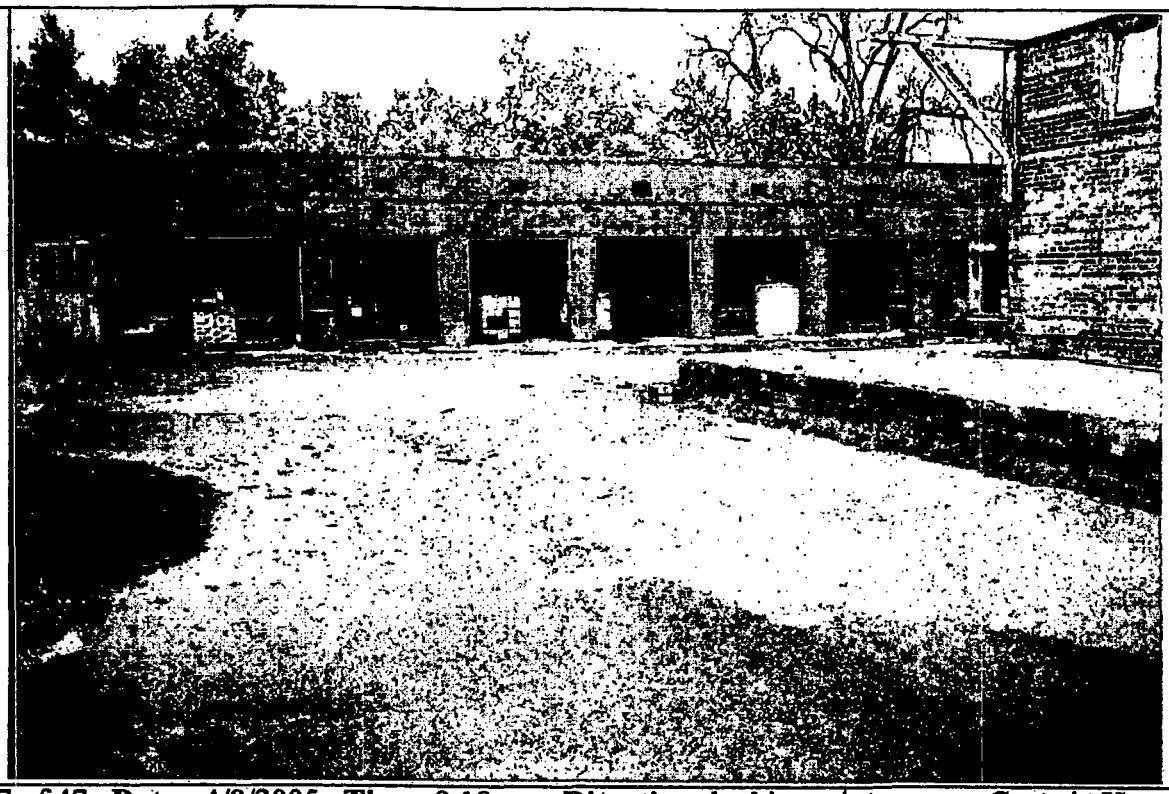
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



Picture: 35 of 47 **Date:** 4/8/2005 **Time:** 9:14 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of inside of 901 Francis Street, used by EPA Removal Contractor as their operation's base.

Picture: 36 of 47 **Date:** 4/8/2005 **Time:** 9:16 am **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of outside area of 901 Francis Street.

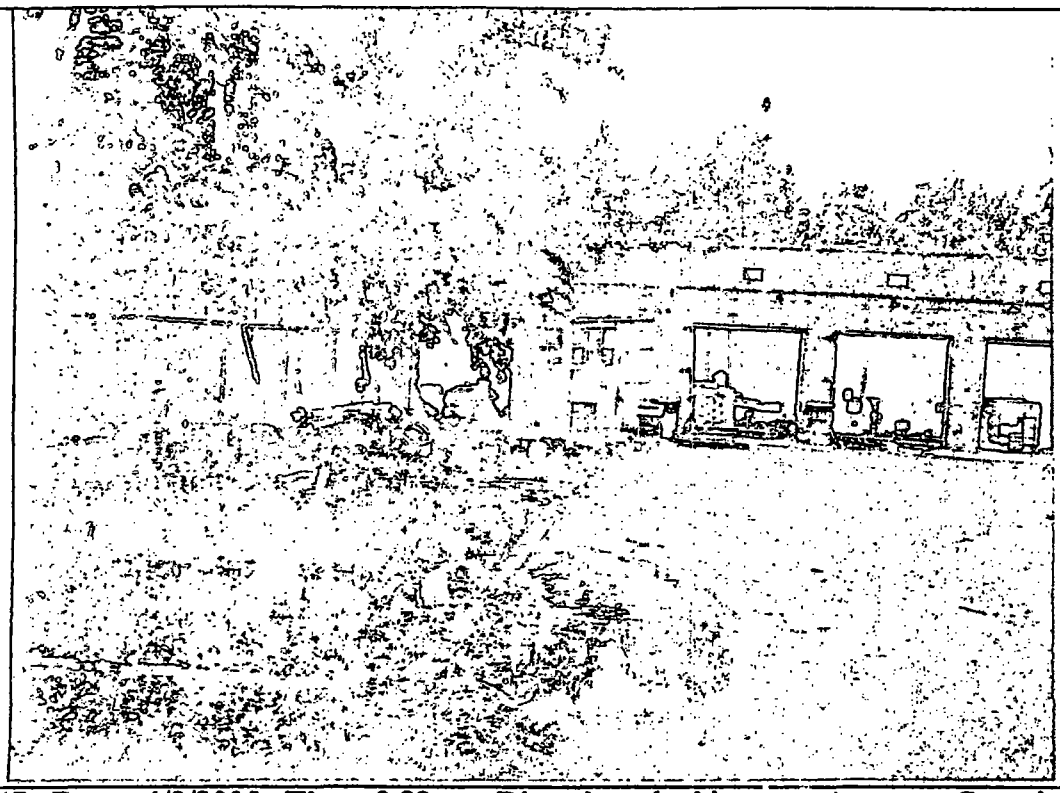
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



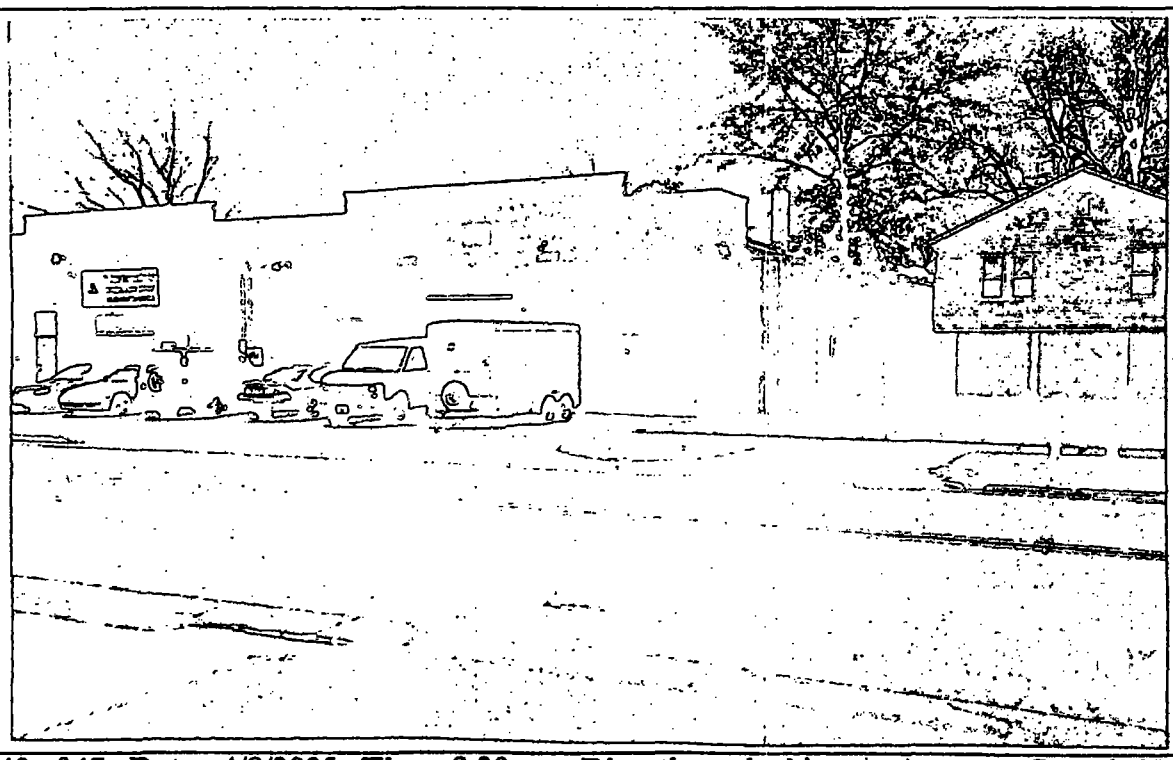
Picture: 37 of 47 **Date:** 4/8/2005 **Time:** 9:18 am **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** Additional view of outside area of 901 Francis Street.

Picture: 38 of 47 **Date:** 4/8/2005 **Time:** 9:20 am **Direction:** NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of exterior of annex to 901 Francis Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

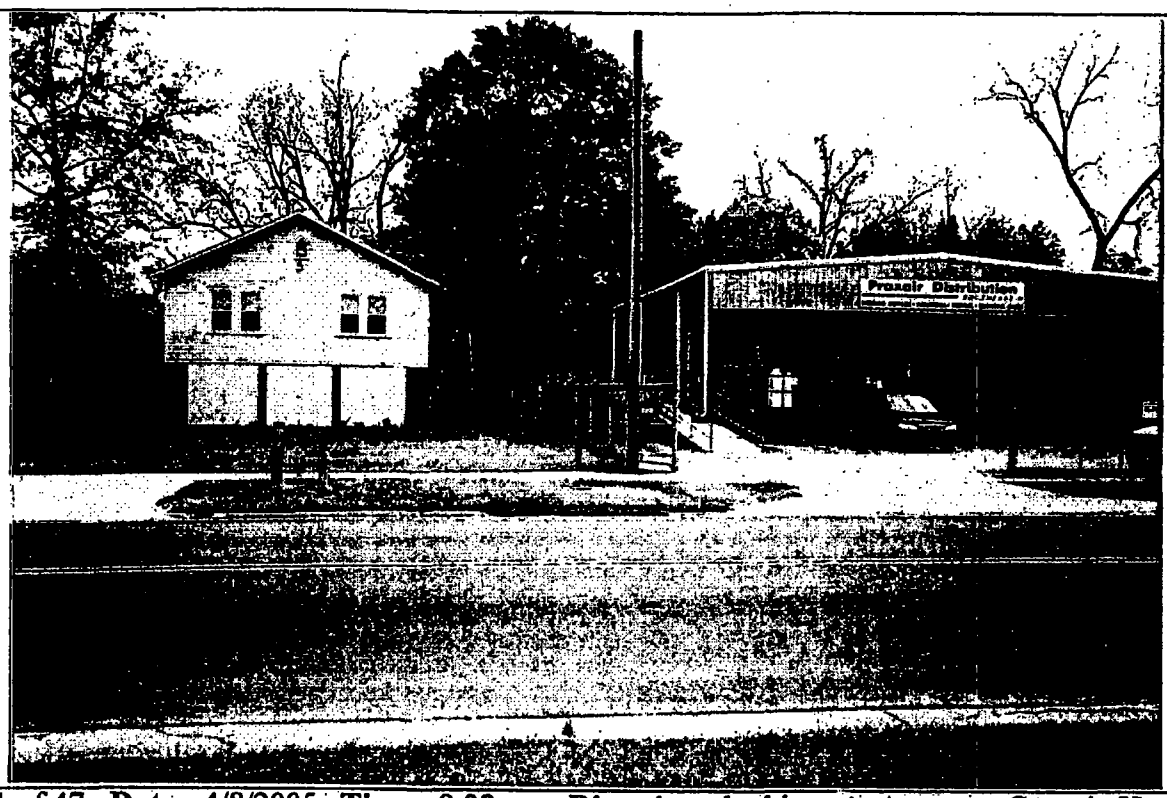


Picture: 39 of 47 **Date:** 4/8/2005 **Time:** 9:22 am **Direction:** looking W **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of vegetation (uncompromised) on the east side of 901 Francis Street.



Picture: 40 of 47 **Date:** 4/8/2005 **Time:** 9:30 am **Direction:** looking **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of house and business to southwest of 901 Francis Street.

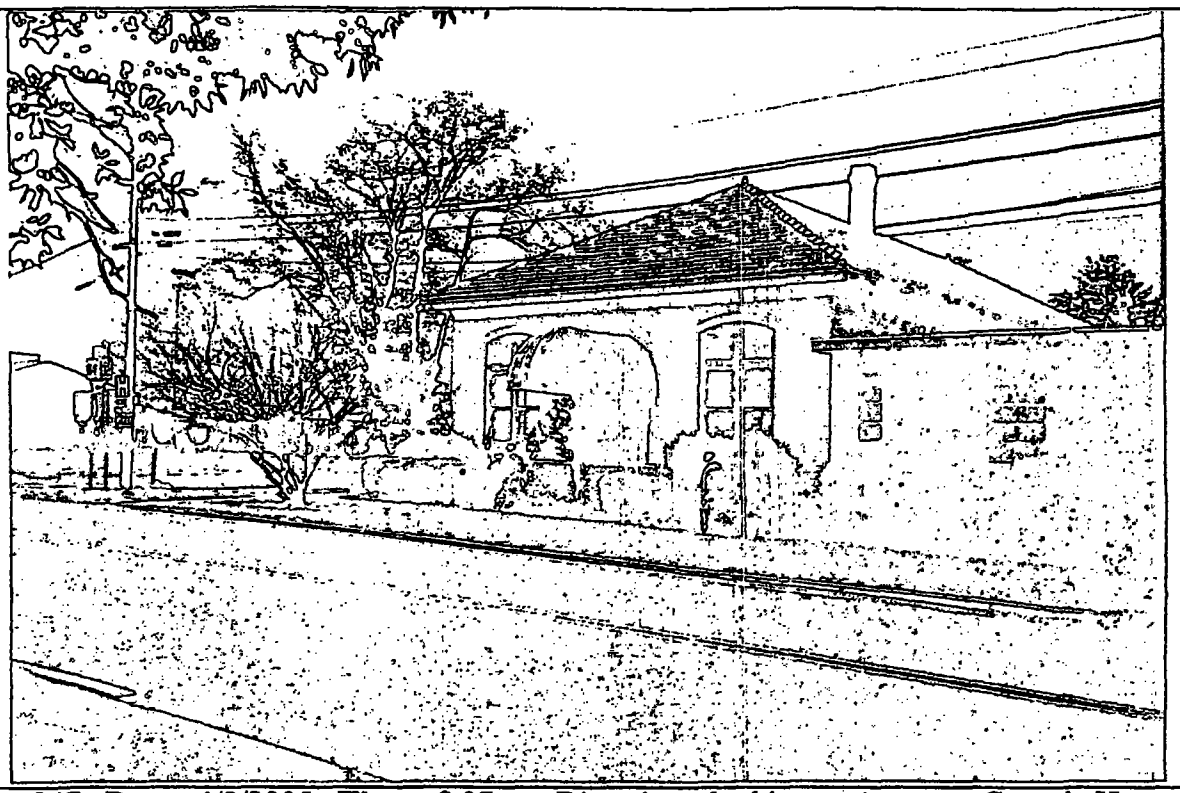
Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



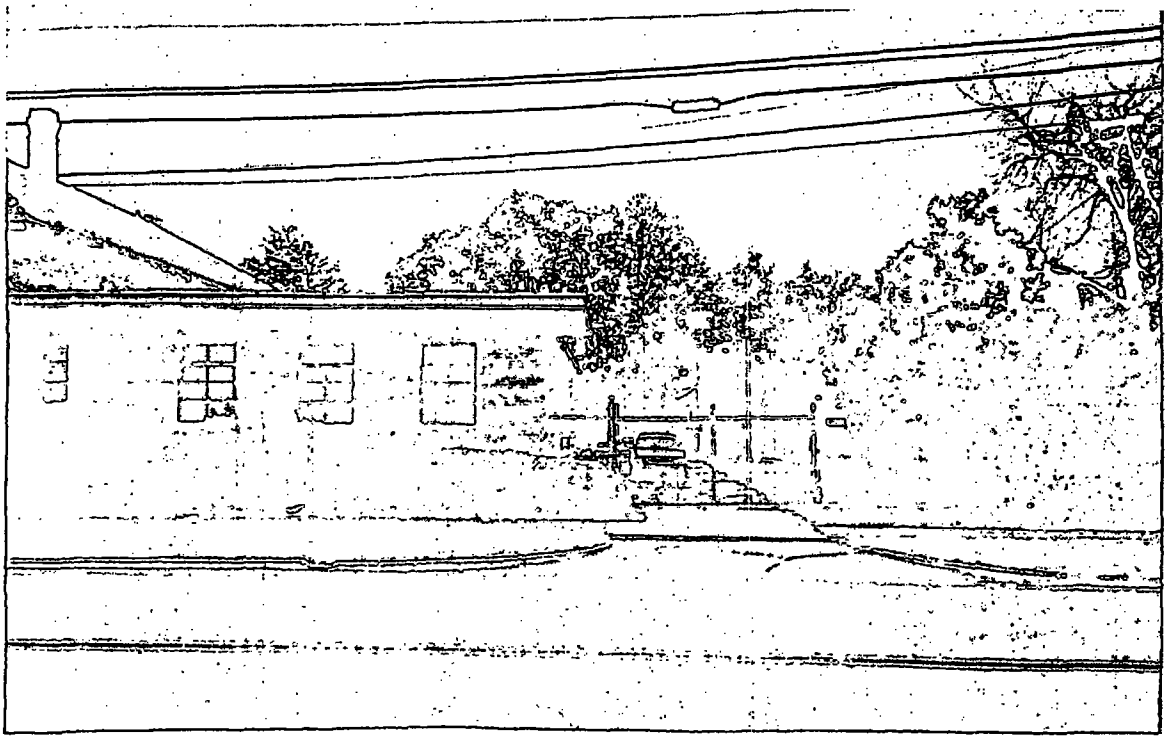
Picture: 41 of 47 **Date:** 4/8/2005 **Time:** 9:32 am **Direction:** looking N **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of house and business (Praxair) across street from 901 Francis Street.

Picture: 42 of 47 **Date:** 4/8/2005 **Time:** 9:35 am **Direction:** looking SW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of businesses to SW of 901 Francis Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



Picture: 43 of 47 **Date:** 4/8/2005 **Time:** 9:37 am **Direction:** looking NE **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of front of 901 Francis Street.



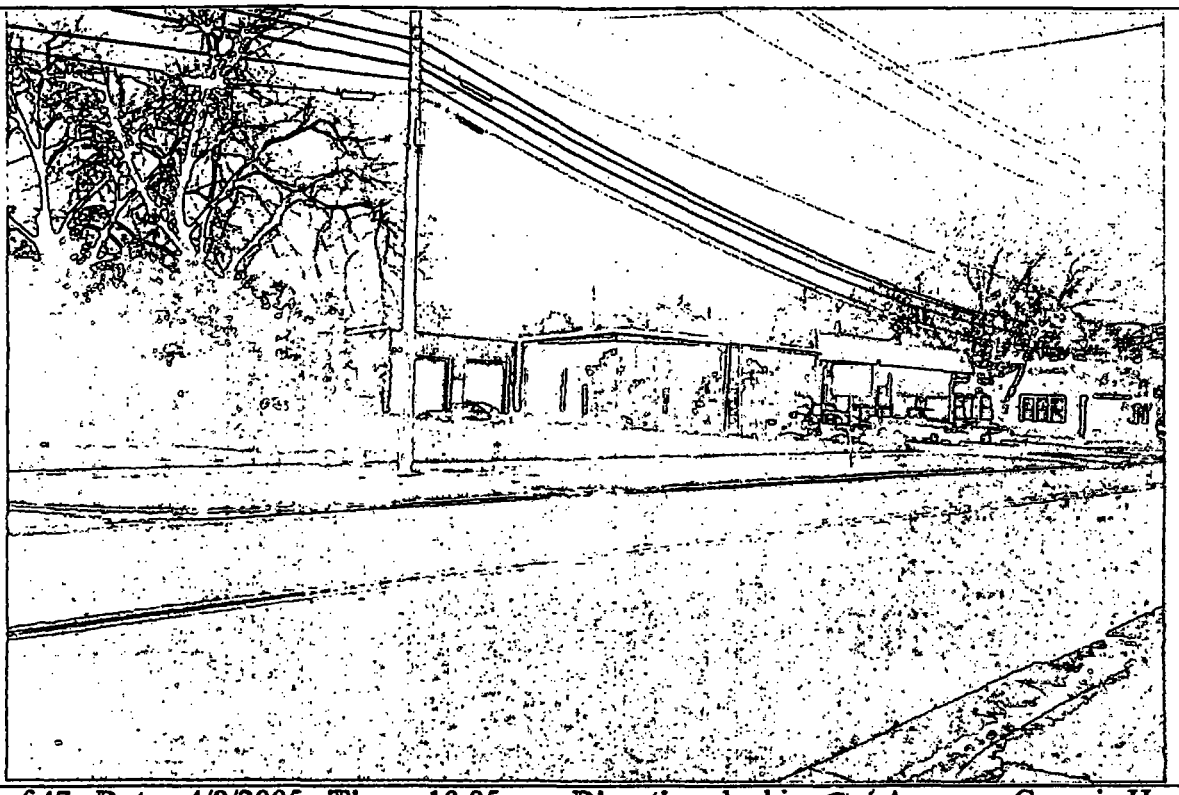
Picture: 44 of 47 **Date:** 4/8/2005 **Time:** 9:37 am **Direction:** looking E **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of front of 901 Francis Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801

Picture: 45 of 47 **Date:** 4/8/2005 **Time:** 9: 45 am **Direction:** looking NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of nearby residence on McDonald Street.

Picture: 46 of 47 **Date:** 4/8/2005 **Time:** 9:55 am **Direction:** looking NA **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of nearby residence on Folks Street.

Seven Out LLC Photo Log
901 Francis Street, Waycross, GA 30503-2335
CERCLIS ID # GAN000407801



Picture: 47 of 47 **Date:** 4/8/2005 **Time:** 10:05 am **Direction:** looking SW **Agency:** Georgia Hazardous Waste Management Branch **Photographer:** Eddie Williams **Subject:** View of businesses to southeast of 901 Francis Street.

CONTENTS

PAGE NO.	REFERENCE	DATE

SEVEN OUT LLC TANK
901 FRANCIS STREET
WAYCROSS, GA 31501
GAN000407811 VISUAL SITE INSPECTION
THURS 4/7/05

ARRIVED AT SITE 2:30 PM
MODERATE TO HEAVY RAIN, ~60°F

USING A GARMIN ETREX VISTA
OBTAINED LAT, LONG, ELEVATION

N 31° 12' 26.8"
W 082° 21' 49.8"
147 FEET ABOVE SEA LEVEL

SITE DOES NOT APPEAR TO
BE IN USE. BUILDING AT
901 FRANCIS IS LOCKED

TANK FARM HAS SECONDARY
CONTAINMENT IN PLACE

RAILROAD TRACKS BORDER SOUTHERN
EDGE OF PROPERTY. A DRAINAGE
DITCH RUNS PARALLEL TO THESE TRACKS
BETWEEN SITE AND TRACKS.

FLOW FROM SITE ENTERS DRAINAGE DITCH AND FLOWS WEST.

IN FRONT (N) OF TANK FARM IS A BUILDING HOUSING THE SPORTS SHOP, INC.

AN UNPAVED ROAD CONNECTS THE SITE WITH CSX RAILROAD PROPERTY SOUTH OF THE SITE. FOUR "FRAC" TANKS MEASURED 1.7 BELONGING TO SEVEN OUT ARE LOCATED ON CSX PROPERTY

THE AREA SURROUNDING THE SITE IS MIXED COMMERCIAL, RESIDENTIAL, AND INDUSTRIAL.

THE NEAREST RESIDENCE IS LOCATED AT 103 FOLKS STREET.

THE DRAINAGE DITCH AT THE SITE CONTINUES WEST AND EMPTIES INTO A CREEK WHICH FLOWS IN A NORTHERN DIRECTION.

~~THE~~
A RESIDENT AT 1310 ALPINE ST STATED SHE HAS NEVER OBSERVED ANYONE FISHING IN THIS CREEK AND THAT IT ALWAYS HAS WATER IN IT.

THE CREEK FLOWS UNTIL IT GOES UNDERGROUND NEAR MCDONALD AND ISABELLA STREET. CREEK APPEARS TO EXIT UNDERGROUND NEAR INTERSECTION OF LEE AVE. AND MEMORIAL. CREEK THEN JOINS LARGER CREEK. FOLLOWED LARGE CREEK TO THE SATILLA RIVER.

EMPLOYEE AT WINGES BAIT & TACKLE ON MEMORIAL DRIVE (9:10 AM) STATED THIS LARGER CREEK IS THE CITY DRAINAGE CANAL. EMPLOYEE STATED KIDS SOMETIMES FISH IN CANAL BUT MOST FISHING IS IN THE SATILLA. CANAL HAS BLUE GILL, SATILLA HAS BLUE GILL, SMALL CRAWFISH, CATFISH, BASS.

SEVEN OUT LLC TANK
FRI 4/8/05

VISITED TAX ASSESSORS OFFICE AND COURTHOUSE TO REVIEW RECORDS PERTAINING TO THE SITES HISTORY.

REVISITED SITE SINCE IT WAS NOT RAINING.

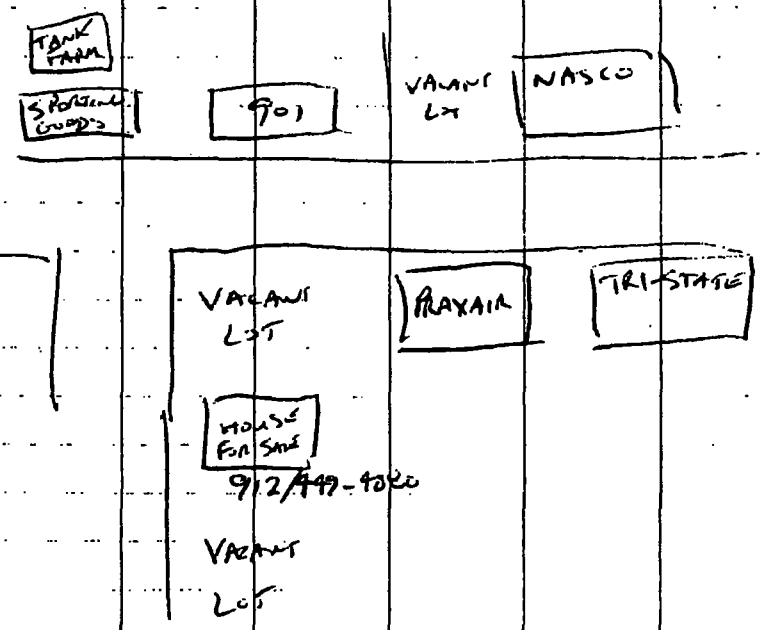
EPA CONTRACTORS WAS PRESENT PUMPING WATER FROM THE TANK FARM SECONDARY CONTAINMENT AREA. TERRY STILMAN, EPA OSC WAS PRESENT.

IMMEDIATELY WEST OF THE 901 FRANCIS BLDG. IS A VACANT LOT AND THEN NASCO ENGINE REBUILDING.

ACROSS FRANCIS STREET TO THE NORTH IS A VACANT LOT AND NORTH OF THIS LOT IS A HOUSE WHICH IS FOR SALE.

OTHER BUSINESSES IN THE AREA ARE: PRAXAIR DISTRIBUTION SE (WELDING SUPPLIES IND. MED. GASES)

TRI-STATE TECHNICAL SERVICES (COMMERCIAL INDUSTRIAL EQUIPMENT)



Reference 40

GEORGIA WELLHEAD PROTECTION PLAN

for

CITY of WAYCROSS

WARE COUNTY

Permit #2990002

Expiration Date: June 15, 2001

Field Survey By:	Sandra Jo Robertson	Date:	July 15, 1999
Prepared By:	Sandra Jo Robertson	Date:	July 27, 1999
Checked By:		Date:	
Approved By:	Susan C. Grunwald	Date:	8/17/99
Distribution:	2 GGS Files; 1 WRMB;	1 Local Government	

SYSTEM INFORMATION

Water System:	Waycross Water System
County:	Ware
System ID No.:	2990002
Expiration Date:	June 15, 2001
Number of Wells:	3
System Type:	municipal
Population:	16,410
Class:	2
Region:	Southeast
Province:	Coastal Plain
Aquifer Type:	unconfined Coastal Plain (Wells #1, & #2) and confined Coastal Plain (Well #3)
Significant Recharge Area:[1]	no
Pollution Susceptibility:[2]	higher susceptibility
Supplier:	City of Waycross
Contact:	William Bland
Title:	Water Superintendent
Address:	P. O. Box 99 Waycross, Georgia 31506
Phone No.:	(912) 287-2900
Fax No.:	(912) 287-2990
WHPA Delineated:	July 15, 1999
PPSI Conducted:	July 15, 1999
Alternate Water Source:	The Waycross Water System consists of three wells. Should one well become inoperable, the other wells would serve the city's water needs until the well was again operational or a new water source found.

[1]Hydrologic Atlas 18, Most Significant Ground-Water Recharge Areas of Georgia, Georgia Department of Natural Resources, Atlanta, 1989.

[2]Hydrologic Atlas 20, Ground-Water Pollution Susceptibility Map of Georgia, Georgia Department of Natural Resources, Atlanta, 1992.

Part 1: DELINEATING THE WELLHEAD PROTECTION AREA

see attached map

Well #1

Location description:	**Located at the city water plant on Alice Street. GPS reading taken at the wellhead.**
Longitude:	**82°21'26.069"W**
Latitude:	**31°12'42.441"N**
Quadrangle:	**Waycross East**
Aquifer Type:	**unconfined Coastal Plain***
Delineation Method:	**volumetric flow equation**
Pumping Rate:	**1000 gpm (Water System Operator)**
Cement Pad:	**present**
Well House:	**not present**
Fence:	**present**
Locked Gate:	**present**
Control Zone:	**15 foot radius**
Inner-Management Zone:	**250 foot radius**
Outer-Management Zone:	**825 foot radius**

Well #2

Location description:	**Located within the city water plant building on Alice Street. GPS reading taken 8 feet west of wellhead.**
Longitude:	**82°21'28.142"W**
Latitude:	**31°12'44.568"N**
Quadrangle:	**Waycross East**
Aquifer Type:	**unconfined Coastal Plain***
Delineation Method:	**fixed radius**
Pumping Rate:	**1700 gpm (Water System Operator)**
Cement Pad:	**present**
Well House:	**present / locked**
Fence:	**not present**
Locked Gate:	**not present**
Control Zone:	**15 foot radius**
Inner-Management Zone:	**250 foot radius**
Outer-Management Zone:	**1041 foot radius**

***Wells #1 and #2 delineated as unconfined Coastal Plain (open hole) due to lack of specific well construction data.**

Well #3

Location description:	Located at Legion Park on GA Route 122. GPS reading taken 5 feet north of the wellhead.
Longitude:	82°21'31.443"W
Latitude:	31°12'35.975"N
Quadrangle:	Waycross East
Aquifer Type:	confined Coastal Plain
Delineation Method:	fixed radius
Pumping Rate:	2650 gpm (Water System Operator)
Cement Pad:	present
Well House:	present / locked
Fence:	not present
Locked Gate:	not present
Control Zone:	15 foot radius
Management Zone:	100 foot radius

Part 2: POTENTIAL POLLUTION SOURCE (PPS) INVENTORY

(see APPENDIX A for reference of PPS Codes)

PPS#	PPS Code	Description
1.	O04	electrical transformers
2.	O07	utility poles
3.	O08	vehicle parking areas
4.	S05	sewer lines
5.	T01	access and secondary roads
6.	F01	above ground storage tanks - gas and diesel auxiliary fuel for Well #1 (has a spill containment system)
7.	F05	removed underground storage tank (facility ID #1510036) 82°21'28.415"W 31°12'42.303"N
8.	I10	storm water runoff
9.	W13	dumpsters
10.	T03	State Route 122
11.	T03	Norfolk Southern Railroad
12.	B23	city maintenance yard (used oil and vehicle fluids) 82°21'27.011"W 31°12'43.503"N
13.	B23	city fire department maintenance yard (used oil and vehicle fluids) 82°21'26.831"W 31°12'40.522"N
14.	B23	fire extinguisher refurbishing business 82°21'26.175"W 31°12'40.512"N Address: ABC Fire Equipment Co. 103 Isabella Street Waycross, Georgia 31506 (912) 285-3208
15.	B23	wrecker and road service shop (closed) 82°21'28.856"W 31°12'44.321"N Address: Alice Street Waycross, Georgia 31506
16.	B23	business district
17.	T03	State Route 38
18.	T03	U.S. Routes 82 & 84

Well #1

Control Zone:
15 foot radius

No potential pollution sources present.

Inner-Management Zone:
250 foot radius

PPS#	PPS Code	Description
1.	O04	electrical transformers
2.	O07	utility poles
3.	O08	vehicle parking areas
4.	S05	sewer lines
5.	T01	access and secondary roads
6.	F01	above ground storage tanks - gas and diesel
7.	F05	removed underground storage tank (facility ID #1510036)
8.	I10	storm water runoff
9.	W13	dumpsters
11.	T03	Norfolk Southern Railroad
12.	B23	city maintenance yard
13.	B23	city fire department maintenance garage
14.	B23	fire extinguisher refurbishing business

Outer-Management Zone:
825 foot radius

Note: PPS's #1, 2, 3, 4, 5, 8, 9, and 11 are also found in the Outer-Management Zone.

PPS#	PPS Code	Description
10.	T03	State Route 122
15.	B23	wrecker and road service shop (closed)
16.	B23	business district
17.	T03	State Route 38
18.	T03	U.S. Routes 82 & 84

Well #2

Control Zone:
15 foot radius

No potential pollution sources present.

Inner-Management Zone:
250 foot radius

PPS#	PPS Code	Description
1.	O04	electrical transformers
2.	O07	utility poles
3.	O08	vehicle parking areas
4.	S05	sewer lines
5.	T01	access and secondary roads
6.	F01	above ground storage tanks - gas and diesel
7.	F05	removed underground storage tank (facility ID #1510036)
8.	I10	storm water runoff
9.	W13	dumpsters
12.	B23	city maintenance yard

Outer-Management Zone:
1041 foot radius

Note: PPS's #1, 2, 3, 4, 5, 8, and 9 are also found in the Outer-Management Zone.

PPS#	PPS Code	Description
10.	T03	State Route 122
11.	T03	Norfolk Southern Railroad
13.	B23	city fire department maintenance yard
14.	B23	fire extinguisher refurbishing business
15.	B23	wrecker and road service shop (closed)
16.	B23	business district
17.	T03	State Route 38
18.	T03	U.S. Routes 82 & 84

Well #3

Control Zone:
15 foot radius

No potential pollution sources present.

Management Zone:
100 foot radius

PPS#	PPS Code	Description
1.	O04	electrical transformers
2.	O07	utility poles
3.	O08	vehicle parking areas
4.	S05	sewer lines
5.	T01	access and secondary roads
17.	T03	State Route 38

Part 3: MANAGEMENT PLAN

Local Wellhead Protection Ordinance
No

Responsibilities of the Georgia Environmental Protection Division (EPD)
Within the Inner- and Outer-Management Zones EPD shall:

- **not issue any new permits for municipal solid waste, industrial waste and construction/demolition waste landfills;**
- **not issue any new permits for the land disposal of hazardous wastes;**
- **require all new facilities permitted to handle, treat, store or dispose of hazardous waste or hazardous materials perform such operations on an impermeable pad having a spill and leak collection system;**
- **require all new agricultural waste impoundments have an impermeable synthetic liner;**
- **not issue any new permits for land application of waste water or sludge;**
- **not issue any new permits for underground injection wells;**
- **not issue permits for any new quarries or underground mines unless a hydrogeological investigation is completed;**
- **require all new underground storage tanks meet the highest standards applicable under the UST Act; and,**
- **require all new waste water treatment basins to have an impermeable synthetic liner.**

Recommendations to Local Governments from the Georgia Environmental Protection Division (EPD)
EPD recommends that the local government develop and adopt a local Wellhead Protection Ordinance.

PPS #1. **PPS code O04 electrical transformers**

The City of Waycross should periodically check electrical transformers for cracks and leaks in the event of accidental or storm damage. Damaged transformers should be reported to the local utility provider.

PPS #2. **PPS code O07 utility poles**

The City of Waycross should be aware that telephone and utility poles are treated with coal tar, creosote, or other wood preservatives.

PPS #3. **PPS code O08 vehicle parking areas**

The City of Waycross should recommend that all vehicle and equipment parking be restricted to paved areas where available.

PPS #4. **PPS code S05 sewer lines**

The City of Waycross should properly maintain sewer lines and repair all sewer line breaks and leaks. Any sewer line break or leak should be reported to the Georgia Environmental Protection Division, Water Protection Branch, Municipal Permitting Program, 4244 International Parkway, Suite 110, Atlanta, Georgia 30354, (404) 362-2680.

PPS #5. **PPS code T01 access and secondary roads**

The City of Waycross should report all hazardous waste and petroleum product spills or releases occurring within the wellhead protection area to the Department of Natural Resources at 1-800-241-4133.

Recommendations to Local Governments from the Georgia Environmental Protection Division (EPD)

PPS #6. **PPS code F01 above ground storage tanks**

The City of Waycross should periodically check the spill containment system for cracks and leaks. All petroleum product spills or releases should be reported to the Department of Natural Resources at 1- 800-241-4133. For more information concerning above ground fuel storage tanks, contact the State of Georgia Office of the Commissioner of Insurance, State Fire Marshall, Hazardous Materials, (404) 656-9798.

PPS #7. **PPS code F05 removed underground storage tank**

Historical information.

PPS #8. **PPS code I10 storm water runoff**

The City of Waycross should be aware that storm water runoff from parking areas may contain volatile organic compounds. Storm water runoff from residential areas may contain pesticides and fertilizers.

PPS #9. **PPS code W13 dumpsters**

The City of Waycross should recommend that solid waste collected in dumpsters be disposed of properly. For more information, contact the Solid Waste Management Program at (404) 362-2680.

PPS #10. **PPS code T03 State Route 122**

The City of Waycross should report all hazardous waste and petroleum product spills or releases occurring within the wellhead protection area to the Department of Natural Resources at 1-800-241-4133.

PPS #11. **PPS code T03 Norfolk Southern Railroad**

The City of Waycross should report all hazardous waste and petroleum product spills or releases occurring within the wellhead protection area to the Department of Natural Resources at 1-800-241-4133.

PPS #12. **PPS code B23 city maintenance yard**

The City of Waycross should employ best management practices in the operation of their facilities. Used oils and fluids should be disposed of properly. A list of educational materials on water quality issues can be obtained from the Georgia Environmental Protection Division, Watershed Planning and Monitoring Program, 4220 International Parkway, Suite 101, Atlanta, Georgia 30354, (404) 675-6236.

PPS #13. **PPS code B23 fire department maintenance garage**

The City of Waycross should employ best management practices in the operation of their facilities. Used oils and fluids should be disposed of properly. A list of educational materials on water quality issues can be obtained from the Georgia Environmental Protection Division, Watershed Planning and Monitoring Program, 4220 International Parkway, Suite 101, Atlanta, Georgia 30354, (404) 675-6236.

PPS #14. **PPS code B23 fire extinguisher refurbishing business**

The City of Waycross should recommend that business owners employ best management practices in the operation of their facilities. Used chemicals, oils and fluids should be disposed of properly. A list of educational materials on water quality issues can be obtained from the Georgia Environmental Protection Division, Watershed Planning and Monitoring Program, 4220 International Parkway, Suite 101, Atlanta, Georgia 30354, (404) 675-6236.

Recommendations to Local Governments from the Georgia Environmental Protection Division (EPD)

PPS #15. PPS code B23 wrecker and road service shop (closed)

Historical information

PPS #16. PPS code B23 business district

The City of Waycross should recommend that business owners employ best management practices in the operation of their businesses. A list of educational materials on water quality issues can be obtained from the Georgia Environmental Protection Division, Watershed Planning & Monitoring Program, 4220 International Parkway, Suite 101, Atlanta, Georgia 30354, (404) 675-6236.

PPS #17. PPS code T03 State Route 38

The City of Waycross should report all hazardous waste and petroleum product spills or releases occurring within the wellhead protection area to the Department of Natural Resources at 1-800-241-4133.

PPS #18. PPS code T03 U.S. Routes 82 & 84

The City of Waycross should report all hazardous waste and petroleum product spills or releases occurring within the wellhead protection area to the Department of Natural Resources at 1-800-241-4133.

General Recommendations

- The Control Zone should be protected from uses other than those directly dealing with the care and maintenance of the well.
- The Control Zone should be enclosed by a fence to limit access to the well.
- Access to the Control Zone should only be through a locking gate (or equivalent).
- Only those chemicals used for water treatment should be stored in the Control Zone; motor fuels, oil, motor vehicles or portable equipment powered by an internal combustion engine should not be stored in the Control Zone.
- Auxiliary power on site fuel storage should have a spill containment system for the entire volume of fuel.
- Wellhead Protection Areas should be protected from future potential pollution sources.
- The City of Waycross should post a notice in a public place notifying residents that a Wellhead Protection Plan is available for review.

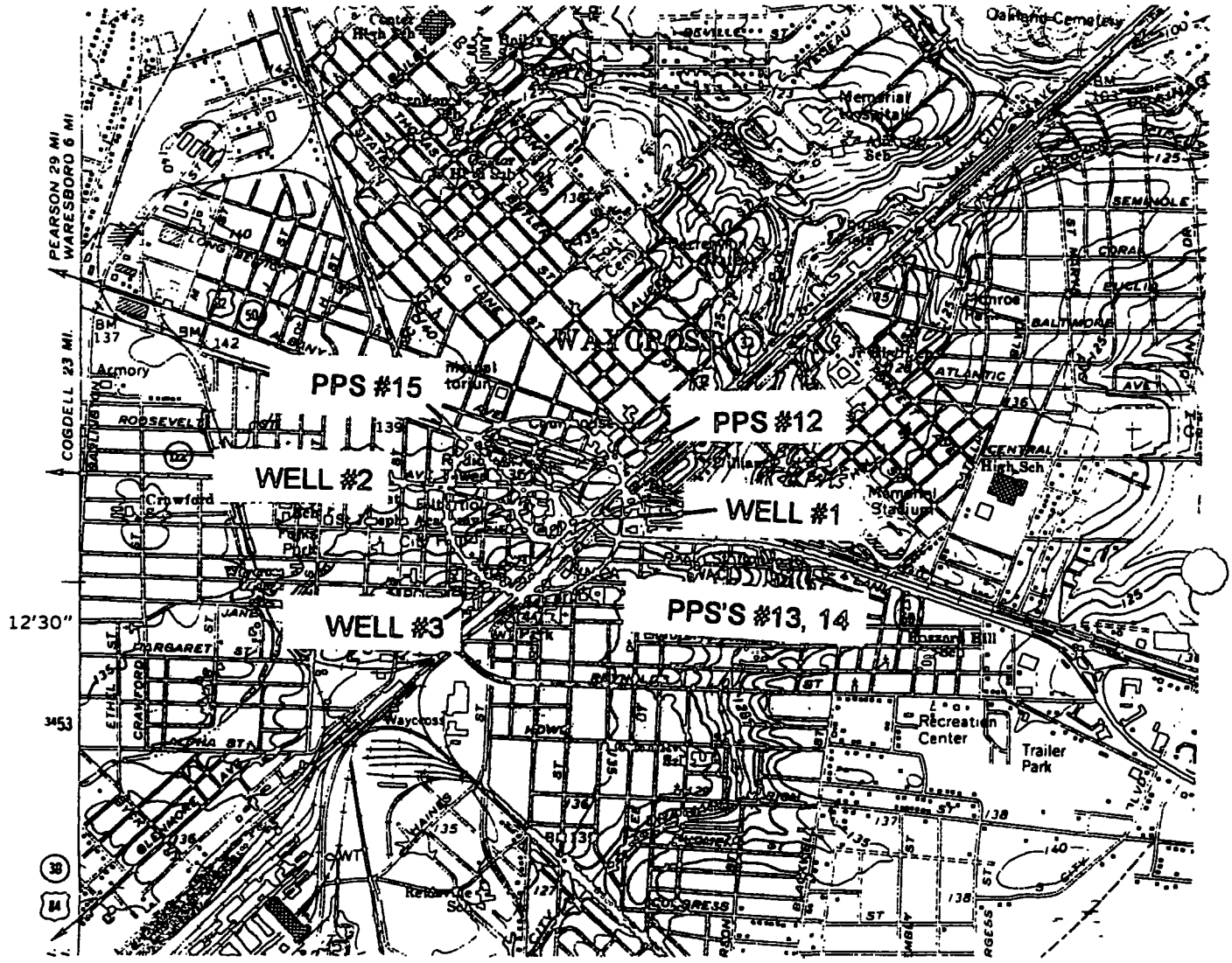
Part 4: CONTINGENCY PLAN

The City of Waycross Water System consists of three wells. Should one well become inoperable, the other wells would serve the city's water needs until the first well was again operational or a new water source found.

The City of Waycross should prepare a formal contingency plan stating how the city's water needs will be met in the event the current water source becomes inoperable.

CITY OF WAYCROSS
WELLS #1, 2 & 3
WELLHEAD PROTECTION AREAS

Datum NAD27



	WELL #1	WELL #2	WELL #3
Quadrangle:	Waycross East	Waycross East	Waycross East
Longitude:	82°21'26.069"W	82°21'28.142"W	82°21'31.443"W
Latitude:	31°12'42.441"N	31°12'44.568"N	31°12'35.975"N
Control Zone:	15 foot radius	15 foot radius	15 foot radius
Inner-Management Zone:	250 foot radius	250 foot radius	
Outer-Management Zone:	825 foot radius	1041 foot radius	
Management Zone:			100 foot radius

All Potential Pollution Sources (PPS's) are listed on Pages 3, 4 & 5.

APPENDIX A
INVENTORY OF POTENTIAL POLLUTION SOURCES

AGRICULTURE

A01 Agricultural Fields
A02 Agriculture Waste Impoundments
A03 Animal Burials
A04 Animal Feed Lots
A05 Commercial Animal Enclosures
A06 Fertilizer/Pesticide Storage
A07 Grain Storage Bins
A08 Irrigation Wells
A09 Pesticide Mixing Areas
A10 Other

BUSINESS AND INDUSTRY

B01 Asphalt Plant
B02 Auto Repair/Body Shop/Salvage Washes
B03 Auto/Truck/Boat/Equipment Dealers
B04 Business using Solvents/Paints
B05 Car Wash
B06 Chemical Production/Mixing/Storage
B07 Deicing Applications
B08 Electroplaters/Metal Finishers
B09 Fleet Service Facility
B10 Gasoline Station Service Bay
B11 Golf Courses/Nurseries
B12 Industrial Facilities
B13 Laundromats/Dry Cleaners
B14 Machine Shops
B15 Photo Processors
B16 Power Generating Facilities
B17 Printers
B18 Refineries
B19 Refinishing
B20 Salvage Operations
B21 Stockpiles
B22 Wood Chemical Treatment Facilities
B23 Other

FUEL STORAGE

F01 Above Ground Storage Tanks
F02 Fuel Storage Facility
F03 Oil/Gas Pipeline
F04 Underground Storage Tanks
F05 Other

HAZARDOUS MATERIALS

H01 Facilities Handling Hazardous Waste
H02 Hazardous Waste Disposal
H03 Hazardous Waste Management Units
H04 Radioactive Disposal and Storage
H05 Other

INJECTION AND INFILTRATION

I01 Abandoned Wells
I02 Domestic Wells
I03 Drainage Canals
I04 Holding Pond/Lagoon
I05 Infiltration Galleries
I06 Injection Wells
I07 Neighboring Polluted Wells
I08 Salt Water Intrusion/Upconing
I09 Sinkholes Modified/Natural
I10 Storm Water Runoff/Infiltration
I11 Swamps/Wetlands/Flood plain
I12 Urban Runoff
I13 Other

KNOWN POLLUTION

P01 Accident Spill Locations
P02 Hazardous Waste Sites
P03 Other

LANDFILLS

L01 Construction Waste Landfills
L02 Industrial Waste Landfills
L03 Municipal Solid Waste Landfills
L04 Others, Active or Abandoned

MINING AND CONSTRUCTION

M01 Borrow Pits
M02 Construction Excavations
M03 Detonation Sites
M04 Mining Operations
M05 Quarries/Underground Mines
M06 Other

SEWAGE AND WATER TREATMENT

S01 Domestic Septic Systems
S02 Lift Station
S03 Non-Domestic Septic Systems
S04 Sewage Treatment Plant
S05 Sewer Lines
S06 Treatment Lagoons/Ponds
S07 Waste Water Treatment Basin
S08 Water Treatment Facilities
S09 Other

TRANSPORTATION

T01 Access and Secondary Roads
T02 Airports
T03 Major Highways and Railroads
T04 Transportation Corridors
T05 Other

WASTE DISPOSAL SITES

W01 Abandoned Disposal Site
W02 Abandoned Drums
W03 Cesspools
W04 Drum Storage/Disposal/Recycling
W05 Dumps
W06 Garbage Transfer Stations
W07 Land Application Systems
W08 Open Pit Burning
W09 Recycling Facilities
W10 Sludge Application
W11 Sludge Producing Facility
W12 Waste Piles
W13 Other

OTHER

O01 Atmospheric Pollution Percolation
O02 Abandoned Cars/Vehicles
O03 Cemeteries
O04 Electrical Transformers
O05 Military Base/Depot
O06 Utility Corridors
O07 Utility Poles
O08 Vehicle Parking Areas
O09 Other

Reference 41

(4)

RECORD OF TELEPHONIC CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 20, 2006
TIME: 10:22 am

FILE: Seven Out LLC

SPOKE WITH: Mr. Larry Altman
TITLE: Owner, Larry Altman Drilling
ADDRESS:
CITY: Blackshear
STATE/ZIP: GA

TELEPHONE NUMBER:
912/285-2824 (office)

SUBJECT: Knowledge of well drilling in the Waycross downtown area

SUMMARY OF CALL:

Called Mr. Altman to obtain information from him pertaining to wells that he had installed or was aware of within a 4-mile radius of Francis Street in Waycross, GA. Mr. Altman stated that the residential wells that they install in that area are approximately 300 feet deep in the Pliocene combined aquifers and occasionally in a Miocene aquifer. Business wells are in the 600'-deep Floridan (Principal Artesian Aquifer). He did state that he was aware of some shallow (20-40' wells) in the area. He had serviced pumps on two wells within the 4-mile radius recently: Mr. Ray Harris (801 Elizabeth Street, 912/285-9998), which is about 900 feet north (2 blocks) of the Seven Out site; and Irene Crawford (2786 Seminole Trail), which is near the 4-mile radius to the east.

ACTION REQUIRED:

None

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

None at this time.

SIGNATURE:

Reference 42

RECORD OF TELEPHONIC CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 20, 2006
TIME: 11:43 am

FILE: Seven Out LLC

SPOKE WITH: Mr. Mock
TITLE: Owner, Mock Well Drilling Co., Inc.
CITY: Waycross
STATE/ZIP: GA

TELEPHONE NUMBER:
912/283-0530

SUBJECT: Information on depth of wells within 4-mile radius of downtown Waycross

SUMMARY OF CALL:

Mr. Mock stated that the wells in the downtown Waycross area fall within 3 distinct classes. Shallow wells are 40-60 feet deep and are no longer drilled. There are, however, many wells still in use in that category. Wells that are now being installed are either in the 300'-depth or 550 '-depth ranges. The 300' wells are generally in unconsolidated sediments. The 550' wells are in the upper Floridan aquifer limestone. Mr. Mock said he has been installing wells in the area for 47 years and has put in over 5,000 wells in his career.

ACTION REQUIRED:

None

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

None at this time.

SIGNATURE:

Reference 43

43

STATE DIVISION OF CONSERVATION

DEPARTMENT OF MINES, MINING AND GEOLOGY

CARLTON BROWN, DIRECTOR

THE GEOLOGIC SERIES

Bulletin Number 70

WELL LOG OF THE COASTAL PLAIN OF GEORGIA

by

Stephen M. Herrod, Geologist

with Sections Prepared by

Reproduced compliments of the [illegible]

ATLANTA

[illegible]

TWIGGS COUNTY

Location: Approximately 1 mi. south of Dry Branch, 1.5 mi. east of U.S. Highway 80
Owner: Georgia Kaolin Company
Driller: Layne-Atlantic Company
Drilled: March 1955

Well No.: GGS 415
Elev.: 430

	Thickness (feet)	Depth (feet)
Upper Eocene: Jackson Group: Barnwell Formation:		
Sand: fine to medium-grained, gray, argillaceous	24	24
Sand: fine to coarse-grained, angular, somewhat arkosic	20	44
Upper Cretaceous: Tuscaloosa Formation:		
Kaolin: micaceous, somewhat sandy	21	65
Sand: fine to coarse-grained, angular, arkosic	117	182
Kaolin: mottled, micaceous, somewhat sandy	12	194
Sand: coarse-grained, angular; kaolin, white	14	208
Clay: brick-red, micaceous, sandy	23	231
Sand: fine to coarse-grained, angular, arkosic	141	372
Summary:		
Upper Eocene (Barnwell formation)	44	44
Upper Cretaceous (Tuscaloosa formation)	328	372
Potential Water-Bearing Zones:		
Sand: fine to coarse-grained	100	331

Remarks:

Well samples of poor quality.

TWIGGS COUNTY

Location: Northeastern part of county, 1.75 mi. southeast of Liberty Church which is 0.75 mi. east of Myerick's Pond
Owner: No. 23 Georgia Kaolin Co.
Driller: Layne-Atlantic Company
Drilled: March 1955

Well No.: GGS 416
Elev.: 380

32° 47' 10" N / 83° 21' 00" W

	Thickness (feet)	Depth (feet)
Upper Eocene: Jackson Group: Barnwell Formation:		
Clay: mottled, very sandy, limonitic	6	6

	Thickness (feet)	Depth (feet)
Marl: light-gray, silty, glauconitic	17	23
Sand: fine to coarse-grained, angular, phosphatic; interbedded marl, as above	45	68
Sand: fine to coarse-grained, angular	22	90
Upper Cretaceous: Tuscaloosa Formation:		
Clay: light-gray, sandy, micaceous	10	100
Sand: fine to coarse-grained, angular, somewhat arkosic; interbedded clay, as above	85	185
Sand: coarse-grained, angular, arkosic; interbedded thin beds of kaolin	248	433
Summary:		
Upper Eocene (Barnwell formation)	90	90
Upper Cretaceous (Tuscaloosa formation)	343	433
Potential Water-Bearing Zones:		
Sand: fine to coarse-grained	228	413

Remarks:

Well samples of poor quality.

WARE COUNTY

Location: At Airport, City of Waycross
Owner: No. 1 Waycross Airport
Driller: Layne-Atlantic Company 31° 15' 00" N / 82° 24' 40" W

Well No.: GGS 36
Elev.: 142

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to coarse-grained, finely disseminated phosphatic grains	15	15
Clay: pale-green to red (mottled), sandy	10	25
Sand: medium to coarse-grained, arkosic	17	42
Sand: as above; clay, tan to red (mottled), sandy; fragments of limestone, light-gray, dense, sandy	20	62
Miocene (Undifferentiated):		
Clay: dark-green, sandy; interbedded sand, fine to coarse-grained, phosphatic	265	327

	Thickness (feet)	Depth (feet)
Sand: fine to coarse-grained, phosphatic	50	377
Sand: as above; interbedded limestone, white, sandy; clay, dark-green, sandy, phosphatic	63	440
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic	50	490
Oligocene (Undifferentiated):		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (some Foraminifera)	8	498
Dictyoconus[1] sp. at 490-498.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: cream, much calcitized, saccharoidal, fossiliferous (Foraminifera)	123	621
Gypsina globula, *Operculinoides floridensis* at 550-560.		
Asterocyclina nassauensis at 570-580.		

Summary:

Pliocene to Recent (undifferentiated)	62	62
Miocene (undifferentiated)	428	490
Oligocene (undifferentiated)	8	498
Upper Eocene (Ocala limestone)	123	621

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	50	377
Limestone	131	621

WARE COUNTY

Location: In City of Waycross
Owner: No. 3 City of Waycross
Driller: Layne-Atlantic Company

Well No.: GGS 366
Elev.: 140

31° 12' 38" N / 82° 21' 40" W

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, finely disseminated phosphatic grains and scattered kaolin inclusions	10	10
Sand: fine to coarse-grained, arkosic, rounded; clay, light-gray to red (mottled), sandy	15	25
Clay: pale-green to purple (mottled), sandy	15	40
Sand: fine to coarse-grained, arkosic, rounded	25	65

	Thickness (feet)	Depth (feet)
Miocene (Undifferentiated):		
Clay: dark-green, sandy; interbedded sand, fine to coarse-grained, phosphatic	135	200
Sand: fine to coarse-grained, phosphatic	50	250
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, sandy; sand, fine to coarse-grained, phosphatic	90	340
Clay: light-gray, calcareous	20	360
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, sandy; sand, fine to coarse-grained, phosphatic	70	430
Limestone: white, dense (much calcitized), sandy, phosphatic, fossiliferous (fragments and molds of megafossils)	60	490
Oligocene (Undifferentiated):		
Limestone: light-gray, dense (much calcitized), nodular, fossiliferous (some Foraminifera)	20	510
Dictyoconus[1] sp., *Quinqueloculina* sp. at 490-500.		
Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: white, dense (much calcitized), fossiliferous (Foraminifera)	265	775
Gypsina globula at 510-520.		
Asterocyclina nassauensis, *Operculinoides* sp. at 550-560.		
Amphistegina pinarensis var. at 680-690.		

Summary:

Pliocene to Recent (undifferentiated)	65	65
Miocene (undifferentiated)	425	490
Oligocene (undifferentiated)	20	510
Upper Eocene (Ocala limestone)	265	775

Potential Water-Bearing Zones:

Sand: fine to coarse-grained	50	250
Limestone	285	775

WARE COUNTY

Location: 1 block northeast of Post Office at Coca Cola Plant in Waycross
Owner: No. 1 Coca Cola Company
Driller: M. M. Gray Drilling Company
Drilled: January 1957

Well No.: GGS 527
Elev.: 140[1]

31° 12' 38" N/82° 22' 05" W

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: fine to medium-grained, argillaceous, finely disseminated phosphatic grains and kaolin inclusions	15	15
Miocene (Undifferentiated):		
Clay: mottled, sandy, some sand as above	25	40
Sand: fine to coarse-grained, angular, arkosic	60	100
Sand: coarse-grained, arkosic; clay, dark-green, sandy	260	360
Black phosphatic pebbles abundant at 310-320.		
Dolomitic limestone: light-brown, saccharoidal, sandy, phosphatic; interbedded limestone, white, dense (much calcitized), sandy, phosphatic	120	480
Oligocene (Undifferentiated):		
Limestone: cream, very dense (highly calcitized), fossiliferous (Ostracods and Foraminifera)	20	500
Dictyoconus[2] sp., *Quinqueloculina* sp. at 480-490.		
No samples	20	520
In Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: light-gray, very dense (highly calcitized), fossiliferous (abundant Foraminifera)	170	690
Gypsina globula, *Pseudophragmina flintensis*, *Asterocyclina nassauensis* at 520-530.		
Limestone: cream, much calcitized, massive	18	708

Summary:

Pliocene to Recent (undifferentiated)	15	15
Miocene (undifferentiated)	465	480
Oligocene (undifferentiated)	20	500
No samples	20	520
In upper Eocene (Ocala limestone)	188	708

[1]Average elevation based on Georgia State Highway Maps.
[2]Reworked(?) fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Potential Water-Bearing Zones:		
Limestone	228	708

Remarks:

Samples of poor quality.

WARE COUNTY

Location: In Waresboro, northwestern part of Waycross
Owner: No. 1 Waresboro Elementary School
Driller: Turner Well Drilling Company
Drilled: April 1957

Well No.: GGS 538

31° 14' 50" N/82° 28' 35" W

	Thickness (feet)	Depth (feet)
Pliocene to Recent (Undifferentiated):		
Sand: medium to coarse-grained, subangular	25	25
Clay: pale-greenish-gray, sandy, micaceous	60	85
Miocene (Undifferentiated):		
Clay: dark-olive-green to brownish-gray, sandy	62	147
No samples	10	157
Sand: fine to medium-grained, subangular	10	167
Sand: coarse-grained, subrounded, phosphatic, arkosic	10	177
Limestone: light-gray to light-brown, much calcitized, saccharoidal, sandy, phosphatic, cherty	31	208
Brownish-gray chert (or siltstone?) prominent at 198-208.		
Clay: greenish-gray, blocky, sandy, phosphatic; interbedded sand, fine to medium-grained, subangular	62	270
Limestone: cream to light-brown, saccharoidal, sandy, phosphatic	30	300
Sand: medium to coarse-grained, subangular, phosphatic	11	311
Limestone: cream to light-gray, saccharoidal, sandy, phosphatic, fossiliferous (megafossils, echinoid and bryozoan remains, and some Foraminifera at depth)	92	403
First observed megafossils at 311-321.		
Elphidium sagrum, *Elphidium poeyanum*, *Valvulineria* sp., *Cibicides concentricus* at 403-413.		
Limestone: light-brown, saccharoidal, sandy, phosphatic	10	413

	Thickness (feet)	Depth (feet)
Oligocene (Undifferentiated):		
Limestone: light-gray to cream at depth, rather massive, somewhat nodular, fossiliferous (bryozoan remains and some Foraminifera)	62	475
Quinqueloculina sp., *Rotalia mexicana* var. at 413-423.		
Dictyoconus[1] sp., *Quinqueloculina* sp. at 423-434.		
Gypsina globula[1] at 465-475.		
No samples	9	484
In Upper Eocene: Jackson Group: Ocala Limestone:		
Limestone: cream, relatively soft and porous, calcitized, granular, fossiliferous (bryozoan remains and some Foraminifera)	114	598
Operculinoides sp. at 484-495.		
Asterocyclina sp., *Operculinoides* sp. at 505-516.		
Summary:		
Pliocene to Recent (undifferentiated)	85	85
Miocene (undifferentiated)	328	413
Oligocene (undifferentiated)	62	475
No samples	9	484
In upper Eocene (Ocala limestone)	114	598
Potential Water-Bearing Zones:		
Limestone	114	598

WASHINGTON COUNTY

Location: 1.4 mi. southwest of junction of Highways 15 and 24 in Sandersville, near east side of Highway 15 near concrete reservoir
Well No.: GGS 94
Elev.: 465
Owner: City of Sandersville well no. 5
Driller: Layne-Atlantic Company
Drilled: June 1944

32° 57' 28" N / 82° 48' 25" W

	Thickness (feet)	Depth (feet)
Miocene: Hawthorn Formation:		
Clay: bluish-green to red (mottled), light-gray at depth, blocky, sandy, limonitic	50	50
Upper Eocene: Jackson Group: Barnwell Formation:		
Sand: fine to medium-grained, angular, somewhat indurated	5	55

[1]Reworked fossil of middle Eocene age.

	Thickness (feet)	Depth (feet)
Limestone[1]: white, dense, somewhat saccharoidal (calcitized), sandy, much sandier at depth, cherty, coarsely but sparsely glauconitic, fossiliferous (echinoid and bryozoan remains and Ostracods)	62	117
Sand: fine to coarse-grained, subangular	13	130
Marl: light-gray, silty, blocky, fossiliferous (echinoid and bryozoan remains, macroshells, Ostracods, and Foraminifera)	23	153
Elphidium sp., *Nonion advena*, *Nonion inexcavatus*, *Valvulineria jacksonensis* at 132-134.		
Limestone (or coquina): gray, dense, somewhat saccharoidal, very sandy, fossiliferous (fragments and casts and molds of megafossils)	13	166
Marl: light-gray, somewhat indurated, fissile, silty, progressively sandier at depth, carbonaceous, fossiliferous (echinoid and bryozoan remains, Ostracods, and Foraminifera)	16	182
Limestone (or coquina): gray to cream, crystalline to saccharoidal, very sandy, fossiliferous (fragments and molds of megafossils)	5	187
Marl: light-brown, somewhat indurated, fissile, carbonaceous, sandy	10	197
Sand: fine to coarse-grained, angular	5	202
Marl: gray, somewhat indurated, fissile, carbonaceous, sandy	5	207
Limestone (or coquina): greenish-gray, dense, very sandy, phosphatic (finely disseminated), fossiliferous (casts and molds of megafossils and bryozoan remains)	53	260
Upper Cretaceous: Tuscaloosa Formation:		
Sand: fine to coarse-grained, angular, limonitic; some clay (or kaolin), gray to red (mottled), micaceous; limestone, "cave" from above	6	266
Kaolin: gray, blocky, micaceous, somewhat sandy	5	271
Kaolin: white, micaceous, somewhat sandy	71	342
Clay: gray to dark-brown, lignitic	20	362
Sand: fine to coarse-grained; interbedded thin stringers of clay, as above	81	443

[1]Probable Sandersville limestone.

Reference 44

Record of Telecommunication

Date: April 27, 2005	Contact: Gene Thomas with the City of Waycross Public Works	Telephone # 912/287-2940	By: Eddie Williams with the Georgia Hazardous Waste Management Branch

Subject:
Production Rates for the five operating wells within the Public Works were provided as follows:

City of Waycross #1 – 10,000 gallons/month
City of Waycross #2 – 9,125,000 gallons/month
City of Waycross #3 - 57,791,667 gallons/month
Waycross/Ware County Industrial Park #1 – 8,060,417 gallons/month
Waycross/Ware County Industrial Park #2 – 5,322,917 gallons/month

All wells are blended within the system. All system wells are backed up by the Satilla Regional Water and Sewer Authority wells through valves that can be opened or closed on demand.

Reference 45

Record of Telecommunication

Date: April 27, 2005	Contact: Derrell McDaniel with the Satilla Regional Water and Sewer Authority	Telephone # 912/287-4366	By: Eddie Williams with the Georgia Hazardous Waste Management Branch

Subject:
Production Rates for the four operating wells within the Authority were provided as follows:

Monroe Street Well - 10,023,000 gallons/month
Emerson Park Well – 5,144,000 gallons/month
Driggers Road Well – 7,365,000 gallons/month
Swamp Road Well – 1,542,000 gallons/month
Waresboro Well – 8,042,000 gallons/month

All wells are blended within the system. All system wells are backed up by the City of Waycross wells through valves that can be opened or closed on demand.

Reference 46

WATER USE IN GEORGIA BY COUNTY FOR 2000 AND WATER-USE TRENDS FOR 1980–2000

by Julia L. Fanning
U.S. GEOLOGICAL SURVEY

GEORGIA DEPARTMENT OF NATURAL RESOURCES
Lonice Barrett, Commissioner

ENVIRONMENTAL PROTECTION DIVISION
Harold F. Reheis, Director

GEORGIA GEOLOGIC SURVEY
William H. McLemore, State Geologist

Prepared in cooperation with the
U.S. GEOLOGICAL SURVEY

Atlanta, Georgia
2003

INFORMATION CIRCULAR 106

WARE COUNTY

Population: 35,483
Population served by public supply: 30,005
Acres irrigated: 4,710
Hydroelectric use (Mgal/d): 0.00

2000 WITHDRAWALS, IN MILLION GALLONS PER DAY

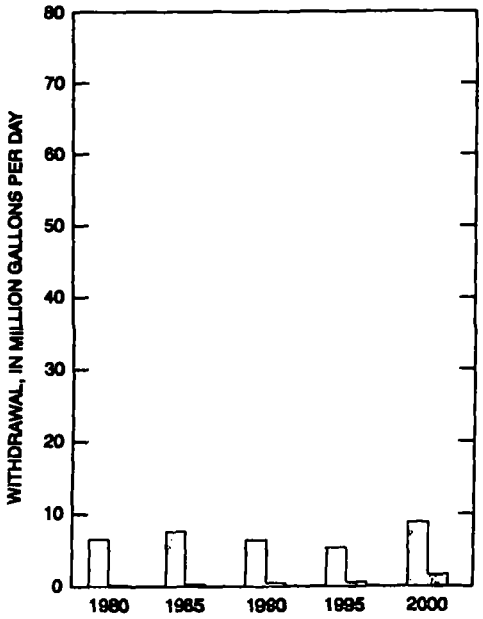
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	TOTALS
Ground Water	3.85	1.21	0.81	2.97	0.01	0.00	8.85
Surface Water	0.00	0.00	0.00	1.55	0.08	0.00	1.63
TOTALS	3.85	1.21	0.81	4.52	0.09	0.00	10.48

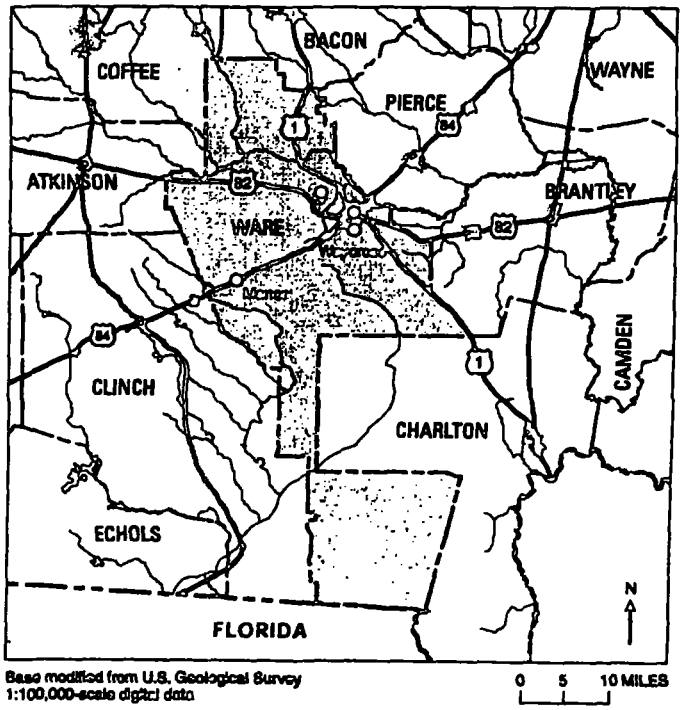
Withdrawals by Major Public Suppliers (Mgal/d):

NAME	GW	SW
City of Manor	0.37	0.00
Ware County Water System	1.36	0.00
City of Waycross	2.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
30-Rubber	0.59	0.00





WITHDRAWAL LOCATION
FOR MAJOR USER
O Ground water

WARE COUNTY

Population: 35,483
Population served by public supply: 30,005
Acres irrigated: 4,710
Hydroelectric use (Mgal/d): 0.00

2000 WITHDRAWALS, IN MILLION GALLONS PER DAY

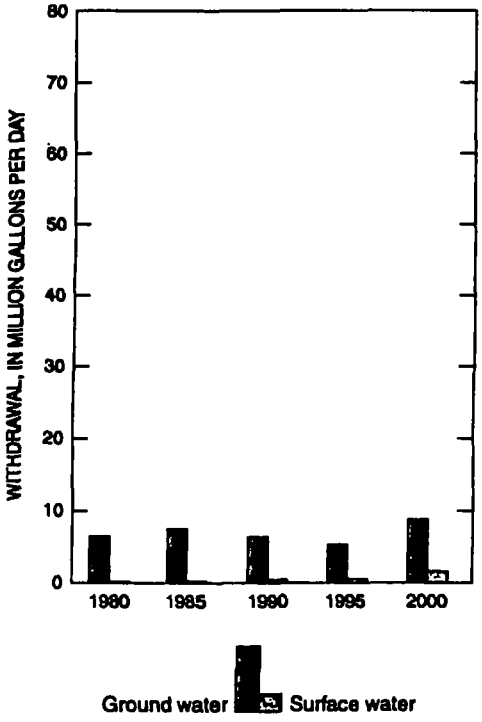
	Public Supply	Domestic & Commercial	Industrial & Mining	Irrigation	Livestock	Thermo-electric	TOTALS
Ground Water	3.85	1.21	0.81	2.97	0.01	0.00	8.85
Surface Water	0.00	0.00	0.00	1.55	0.08	0.00	1.63
TOTALS	3.85	1.21	0.81	4.52	0.09	0.00	10.48

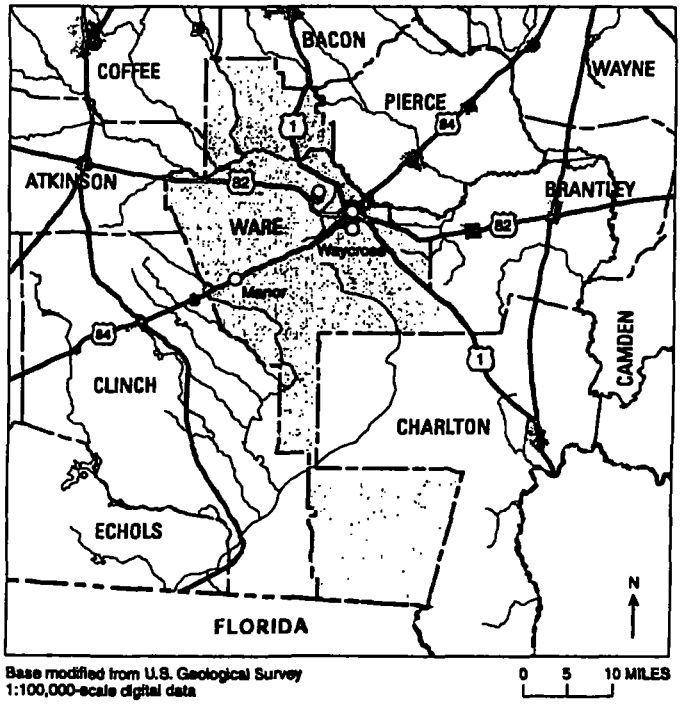
Withdrawals by Major Public Suppliers (Mgal/d):

NAME	GW	SW
City of Manor	0.37	0.00
Ware County Water System	1.36	0.00
City of Waycross	2.10	0.00

Withdrawals by Major Industrial Groups (Mgal/d):

SIC	GW	SW
30-Rubber	0.59	0.00





Reference 47

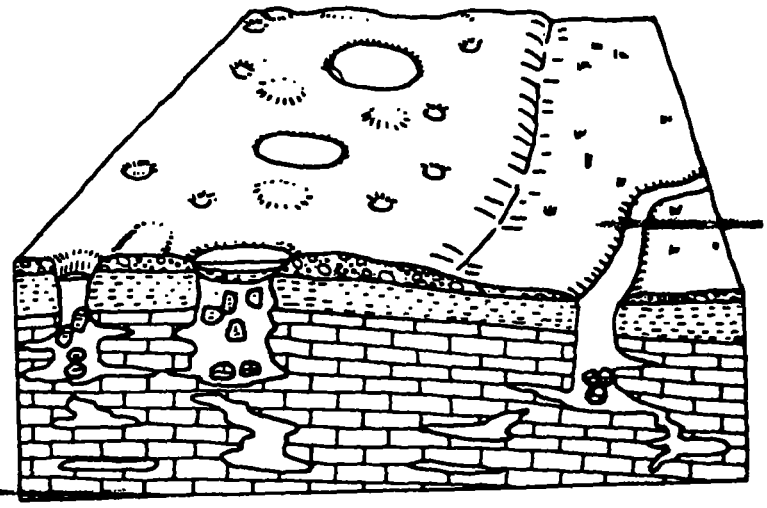
HYDROLOGIC ATLAS 20

GROUND-WATER POLLUTION SUSCEPTIBILITY MAP OF GEORGIA

by

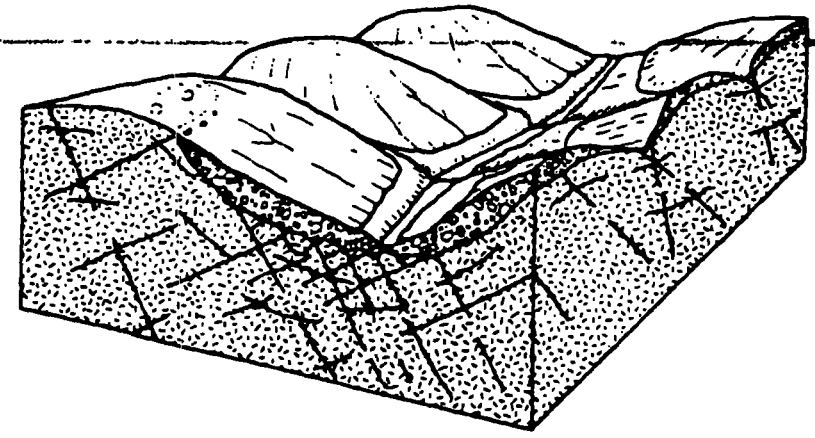
Victoria P. Trent

The preparation of this atlas was financed in part through a grant from the U.S. Environmental Protection Agency under the provisions of Section 106 of the Federal Water Pollution Control Act of 1972, as amended.



HYDROGEOLOGY OF THE PIEDMONT AND BLUE RIDGE

HYDROGEOLOGY OF THE SOUTHEASTERN COASTAL PLAIN



Department of Natural Resources
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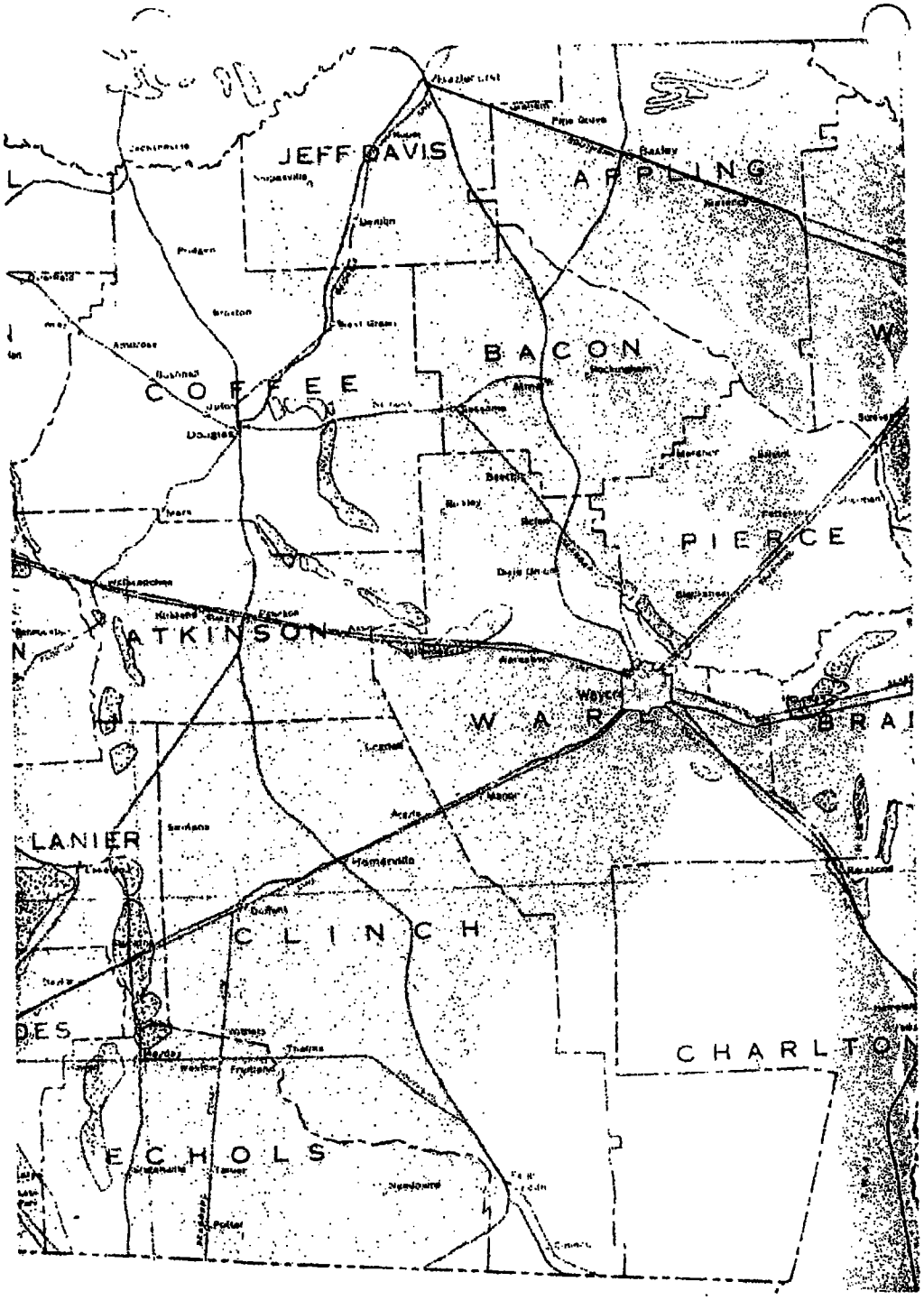
Environmental Protection Division
Harold F. Reheis, Director

Georgia Geologic Survey
William H. McLemore, State Geologist

ATLANTA

1992



EXPLANATION

- HIGHER SUSCEPTIBILITY AREAS (DRASTIC RATING >181)
- AVERAGE SUSCEPTIBILITY AREAS (DRASTIC RATING OF 141–181)
- LOWER SUSCEPTIBILITY AREAS (DRASTIC RATING <141)
- MAJOR WATER BODIES
- MOST SIGNIFICANT GROUND-WATER RECHARGE AREAS OF GEORGIA, HYDROLOGIC ATLAS 18, 1989, SCALE 1:500,000
- STREAMS AND LAKES STATE OF GEORGIA HYDROLOGY BASE MAP, 1986. SOURCE: USGS, SCALE 1:500,000
- MAJOR HIGHWAYS AND ROADS STATE OF GEORGIA ROADS BASE MAP, 1974. SOURCE: NCIC, SCALE 1:2,000,000

Reference 48

HYDROLOGIC ATLAS 18

MOST SIGNIFICANT GROUND-WATER RECHARGE AREAS OF GEORGIA

by

Kenneth R. Davis, John C. Donahue, Robert H. Hutcheson, and Deborah L. Waldrop

RETURN TO EDDIE WILLIAMS

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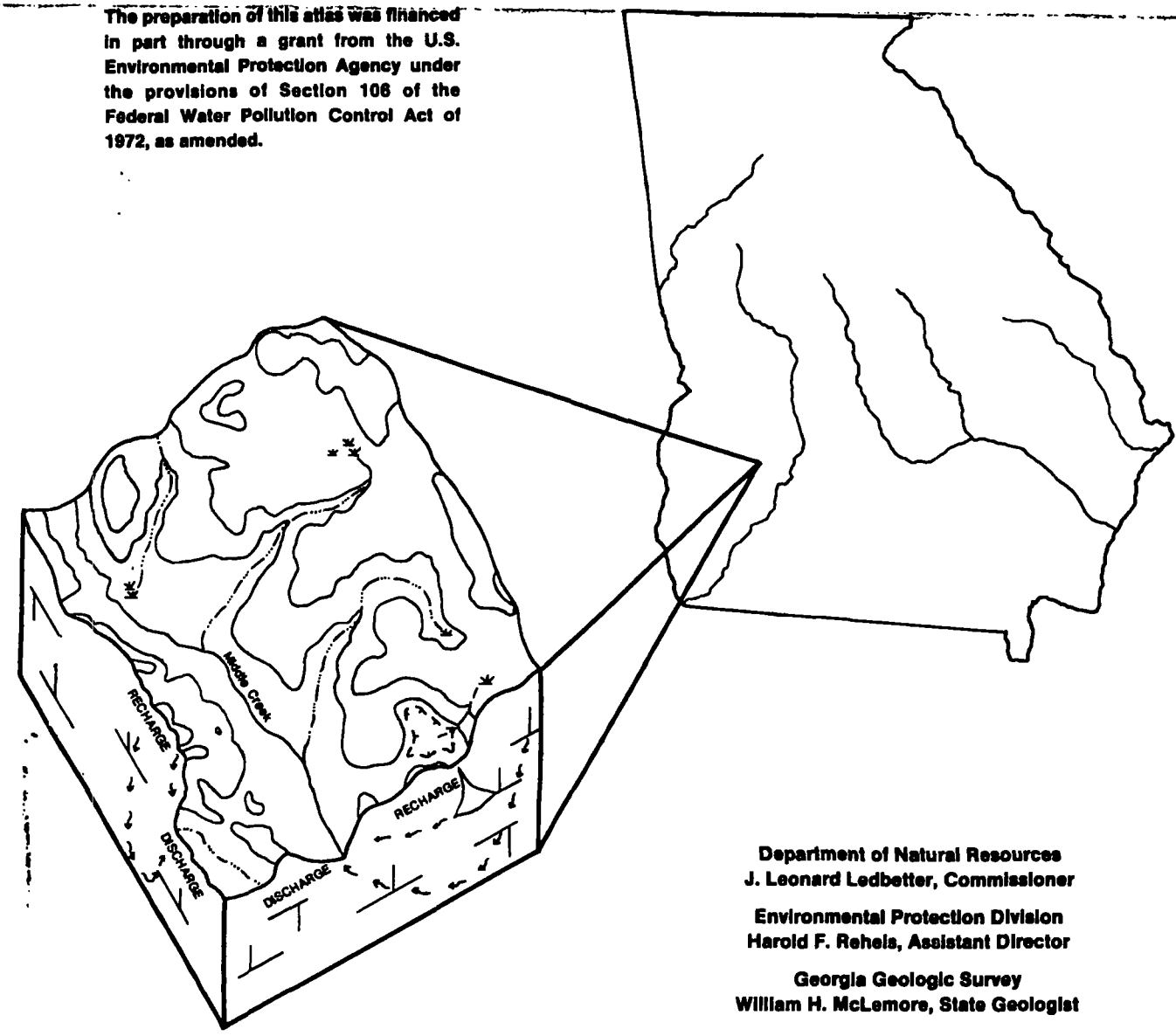

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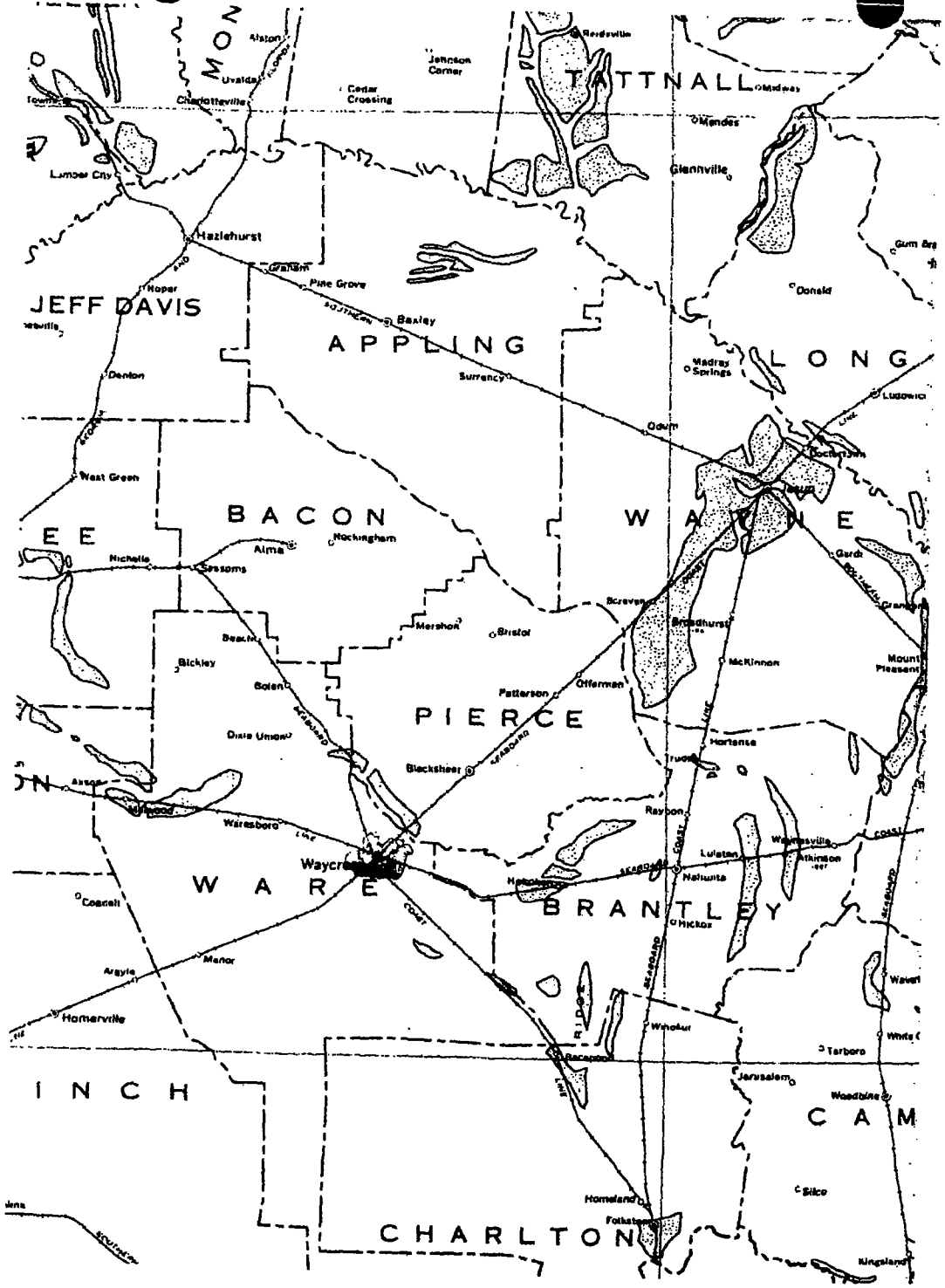
ATLANTA

1989



RECHARGE AREAS FOR:

COASTAL PLAIN PROVINCE

- MIOCENE/PLIOCENE-RECENT UNCONFINED AQUIFERS
- FLORIDAN/JACKSONIAN AQUIFER SYSTEM
- CLAIBORNE AQUIFER SYSTEM
- CLAYTON AQUIFER SYSTEM
- CRETACEOUS-TERTIARY AQUIFER SYSTEM

RIDGE AND VALLEY PROVINCE

- UNCONFINED AQUIFERS

PIEDMONT PROVINCE

- PROBABLE AREAS OF THICK SOILS (may be significant recharge areas)

Reference 49

Provider	ID #	Well #	Aquifer/ Depth	Radius (miles)	Population Served	Location	Blended	Contact #	Gallons
City of Waycross	GA2990003	Well #3	Floridan 773'	¼-1/2	Combined with above	Northeast of Site	Yes with wells in Satilla Reg. W & S, City of Waycross, and Industrial Park	912/287-2940 Gene Thomas	693,500,000
Waycross-Ware County Industrial Park	GA2990019	Well #1* Fulford Road	Floridan NA	>4	2500	Fulford Road, Northwest of Site	Yes with wells in Satilla Reg. W & S, City of Waycross, and Industrial Park	912/287-2940 Gene Thomas	96,725,000
Waycross - Ware County Industrial Park	GA2990019	Well #2* Harris Road	Floridan NA	3-4	Combined with Above	Harris Road, Northwest of Site	Yes with wells in Satilla Reg. W & S, City of Waycross, and Industrial Park	912/287-2940 Gene Thomas	63,875,000
Baptist Village	GA2990016	Linen Lane #1	Floridan 632'	3-4	313	Southwest of Site	Yes, with Linen Lane #2	912/283-2912 Mr. Sharpton	NA
Baptist Village	GA2990016	Linen Lane #2	Floridan 650'	3-4	Combined with Above	Southwest of Site	Yes, with Linen Lane #1	912/283-2912 Mr. Sharpton	NA
Resident	NA	Private Well	NA	2-3	NA	West of Site, 715 Village Lake Drive	No	912/283-6711	NA
Resident	NA	Private Well	NA	3-4	NA	Northwest of Site, 3124 Cherokee Street	No	NA	NA
Resident	NA	Private Well	NA	3-4	NA	Northwest of Site, 3146 Cherokee Street	No	912/285-1530 (disconnectee)	NA

Provider	ID #	Well #	Aquifer/ Depth	Radius (miles)	Population Served	Location	Bleached	Contact	Group Approval (yes)
Resident	NA	Private Well	Miocene? 280'	3-4	NA	Northwest of Site, 3150 Cherokee St.	No	912/285-2600	NA
Resident	NA	Private Well	Unknown	3-4	NA	Northwest of Site, 3148 Cherokee St.	No	912/283-3607	NA

Population Data from Census Data for 1990

Residents	NA	Private Wells	Unknown	0-1/4	0	Unknown	No	NA	NA
Residents	NA	Private Wells	Unknown	¼-1/2	2	Unknown	No	NA	NA
Residents	NA	Private Wells	Unknown	½-1	20	Unknown	No	NA	NA
Residents	NA	Private Wells	Unknown	1-2	271	Unknown	No	NA	NA
Residents	NA	Private Wells	Unknown	2-3	842	Unknown	No	NA	NA
Residents	NA	Private Wells	Unknown	3-4	895	Unknown	No	NA	NA

Reference Bo's 1990 Census Data, Telecommunications with Sharpton, McDaniel, Thomas, and DrinkingWater Program Files.

WARE GA2990000 MANOR 101 WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990001 SATILLA REGIONAL WATER & SEWER AUTH. 101 MONROE STREET WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 11/01/2004

WARE GA2990001 SATILLA REGIONAL WATER & SEWER AUTH. 102 OFF NAVADA AVE- EMERSON PARK WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 11/01/2004

WARE GA2990001 SATILLA REGIONAL WATER & SEWER AUTH. 103 OFF ALBANY AVE - WARESBORO WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 11/01/2004

WARE GA2990001 SATILLA REGIONAL WATER & SEWER AUTH. 106 WAYCROSS WATER SYSTEM GA2990002 PURCHASE CONNECTION GROUNDWATER ACTIVE EMERGENCY/BACK-UP 04/30/2002

WARE GA2990002 WAYCROSS 101 WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990002 WAYCROSS 102 WELL #2 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990002 WAYCROSS 103 WELL #3 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990013 DNR-LAURA S. WALKER STATE PARK 101 LAURA WALKER RD WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/27/2004

WARE GA2990013 DNR-LAURA S. WALKER STATE PARK 102 LAURA WALKER RD-CAMPGROUND WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/27/2004

WARE GA2990016 BAPTIST VILLAGE 101 LINEN LANE WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 06/22/2004

WARE GA2990016 BAPTIST VILLAGE 102 LINEN LANE WELL #2 WELL GROUNDWATER ACTIVE EMERGENCY/BACK-UP 06/22/2004

WARE GA2990019 WAYCROSS-WARE COUNTY IND. PARK 101 WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990019 WAYCROSS-WARE COUNTY IND. PARK 102 WELL #2 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

WARE GA2990040 OKEFENOKEE SWAMP ASSOC. INC. 101 5700 OKEFENOKEE SWAMP PART RD WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 01/31/2005

WARE GA2990040 OKEFENOKEE SWAMP ASSOC. INC. 102 5700 OKEFENOKEE SWAMP PARK RD WELL #2 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 01/31/2005

WARE GA2990046 GA. LIONS CAMP FOR THE BLIND 101 WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/13/1999

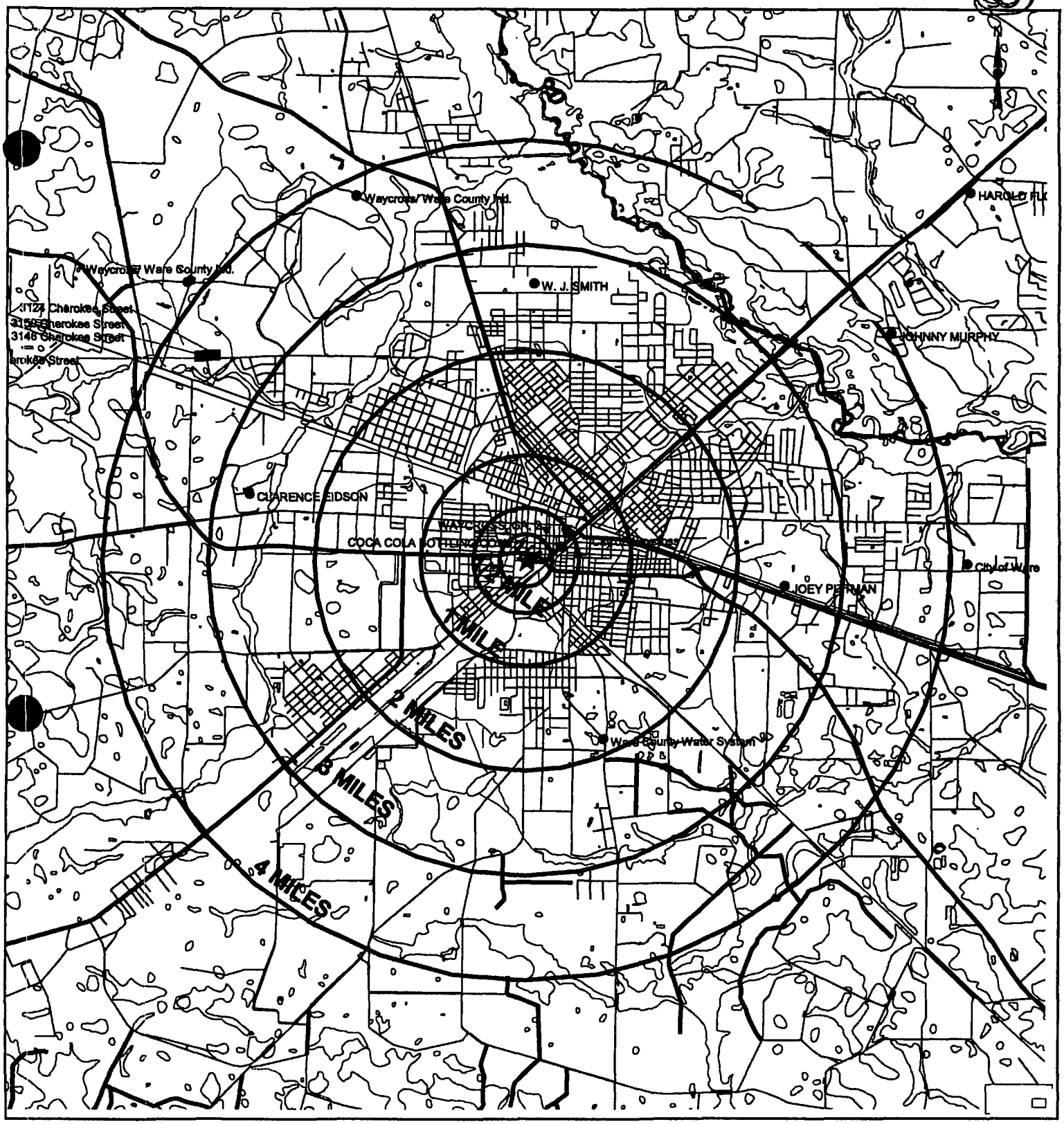
WARE GA2990051 SATILLA REGIONAL WATER & SEWER AUTH-EAST 101 OFF DRIGGERS ROAD WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 11/01/2004

WARE GA2990051 SATILLA REGIONAL WATER & SEWER AUTH-EAST 102 OFF SWAMP RD/GILCHRIST PARK WELL WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 11/01/2004

WARE GA2990051 SATILLA REGIONAL WATER & SEWER AUTH-EAST 103 WAYCROSS WATER SYSTEM GA2990002 PURCHASE CONNECTION GROUNDWATER ACTIVE EMERGENCY/BACK-UP 07/10/2002

WARE GA2990052 DNR-L S WALKER SP GOLF COURSE 101 LAURA WALKER RD WELL #1 WELL GROUNDWATER ACTIVE FULL TIME/REGULAR 10/27/2004

Reference 50



Roads
State and US Highways
Interstate Highways
Rivers/Streams
Lake/Pond
Swamp/Marsh
Census Block Group Boundaries
Census Block Group with >zero domestic well

■ *HOUSEHOLD*
● *Public Supply*
INDUSTRIAL
▼ *Unknown*

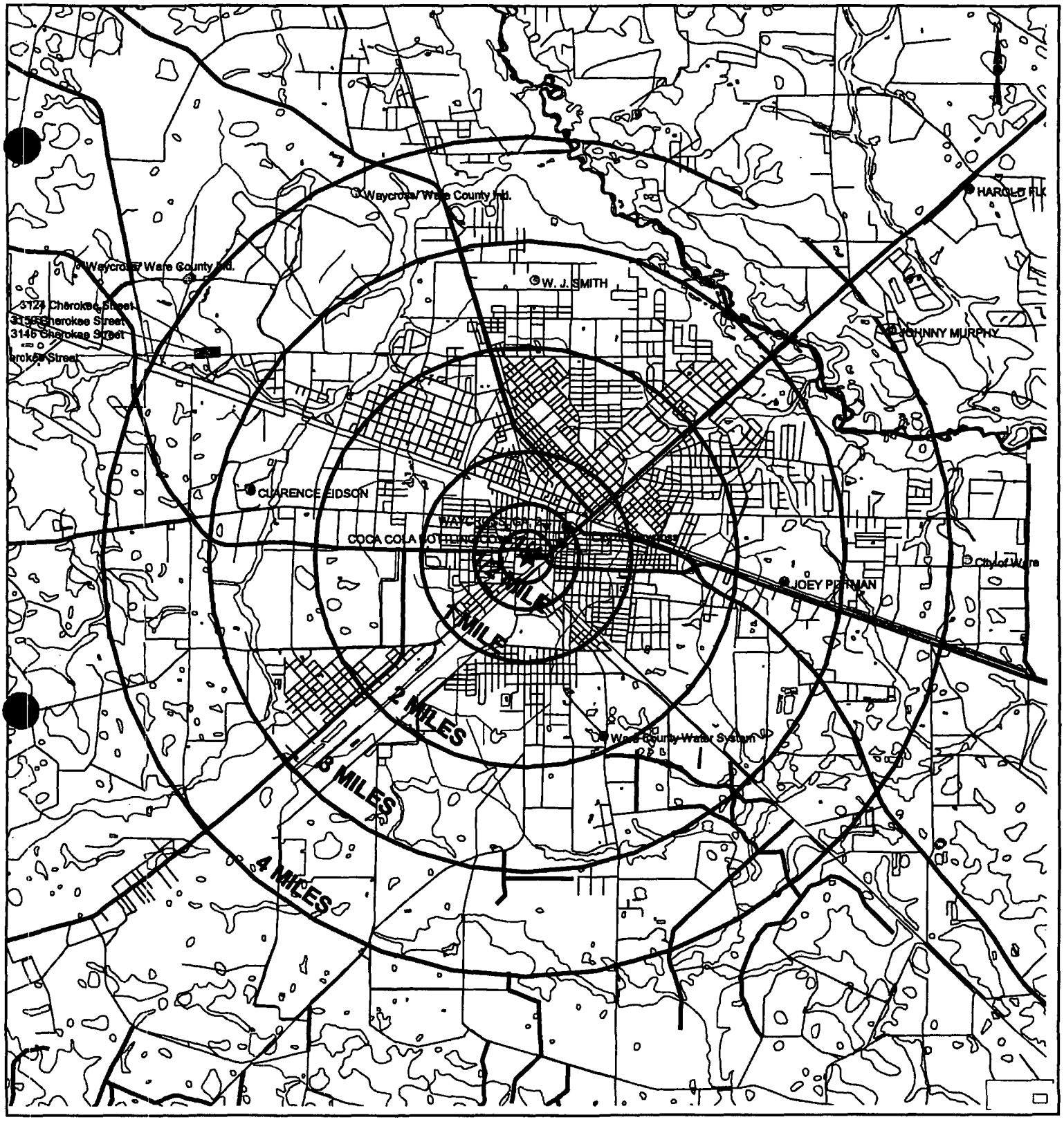
Seven Out Property
901 Francis Street
Waycross, Ware County

Scale: 1 inch = 1 mile

31 12' 26" 82 21' 51"

Sources: Wells from USGS GWSI (1999); EPD WRB Non-Municipal Wells (1997); EPD HWMB field surveys (1999); Surface Water Intakes from EPD GSB DR96-27(1996); Roads, Rivers, Wetlands from Georgia DOT (1993); Census data from U.S. Bureau of Census (1990)

06/27/2006



Roads
State and US Highways
Interstate Highways
Rivers/Streams
Lake/Pond
Swamp/Marsh
Census Block Group Boundaries
Census Block Group with >zero domestic well

HOUSEHOLD
Public Supply
INDUSTRIAL
Unknown

Seven Out Property
901 Francis Street
Waycross, Ware County

Scale: 1 inch = 1 mile

31 12' 26" 82 21' 51"

Sources: Wells from USGS GWSI (1999); EPD WRB Non-Municipal Wells (1997); EPD HWMB field surveys (1999); Surface Water Intakes from EPD GSB DR96-27(1996); Roads, Rivers, Wetlands from Georgia DOT (1993); Census data from U.S. Bureau of Census (1990)

06/27/2006

Reference 51

U.S.G.S. 7.5' Topographic Maps (1:24000) for Waycross West (1967, photorevised 1988), Waycross East (1967, photorevised 1988), Hoboken West (1967, photorevised 1988), Dixie (1971, photorevised 1988), and Blackshear West (1971, photorevised 1988) are included in Figure 3 in the Figures section of this report.

Reference 52

RECORD OF PERSONAL CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 16, 2006
TIME: 9:30 am

FILE: Seven Out LLC

SPOKE WITH: Manager of Coca Cola Distribution Plant
TITLE: Manager TERRY MURRAY
ADDRESS:
CITY: Waycross
STATE/ZIP: GA

TELEPHONE NUMBER:
912/283-3525

SUBJECT: Knowledge of date Coca Cola left the 901 Francis Street location and moved to current location and status of Coca Cola' water supply well.

SUMMARY OF CALL:

The manager stated that the Coca Cola facility relocated to its current address around 1955. He also stated that they no longer use the well on the property. He suspected that the well caved in, but had no knowledge as to whether it had been properly plugged and abandoned. The well is not used nor is there any interest in using water from the well in the future.

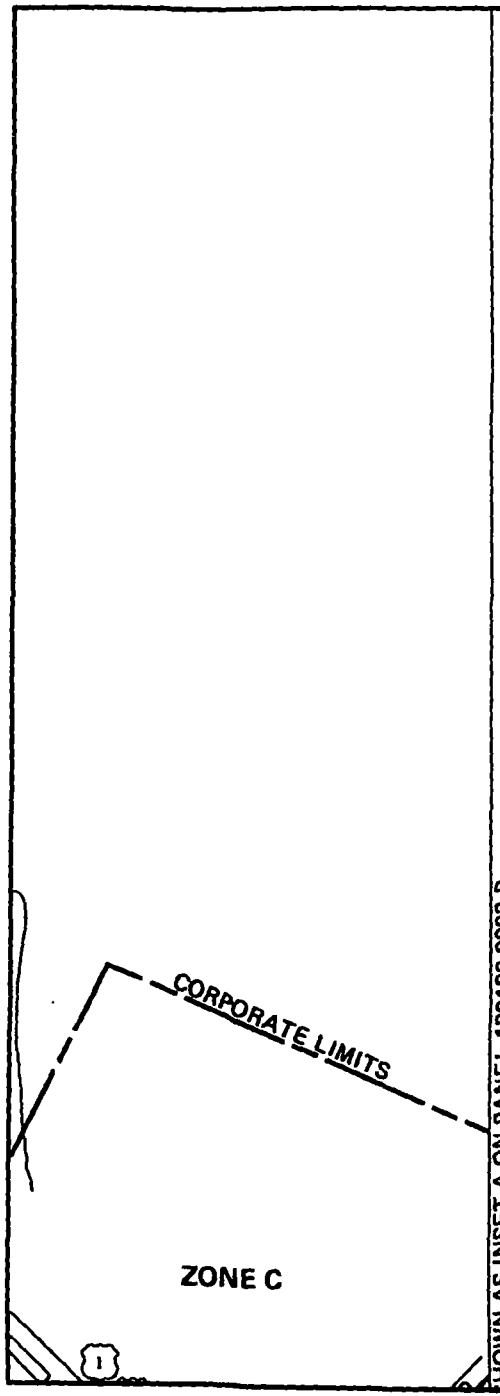
ACTION REQUIRED:

None

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

None at this time.
SIGNATURE:

Reference 53



With Elevation In Feet**

Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7×
River Mile	• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

APPROXIMATE SCALE

500 0 500 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

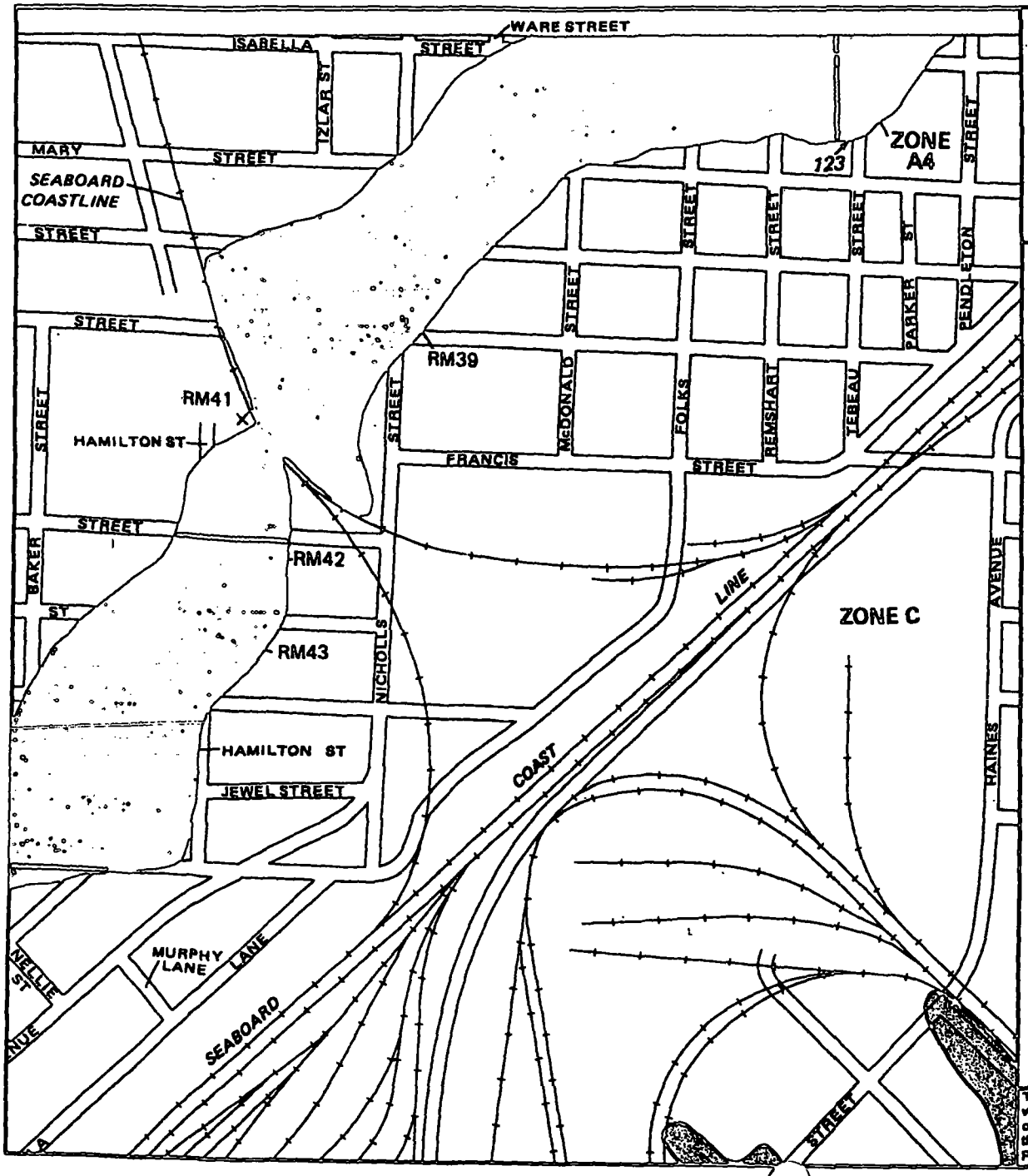
CITY OF
WAYCROSS, GEORGIA
WARE COUNTY

PANEL 3 OF 4
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
130186 0003 B

EFFECTIVE DATE:
AUGUST 3, 1981

federal emergency management agency
federal insurance administration



APPROXIMATE SCALE

500 0 500 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
WAYCROSS, GEORGIA
WARE COUNTY

PANEL 3 OF 4
(SEE MAP INDEX FOR PANELS NOT PRINTED)

COMMUNITY-PANEL NUMBER
130188 0003 B

EFFECTIVE DATE:
AUGUST 3, 1981

federal emergency management agency
federal insurance administration

This is an official copy of a portion of the above referenced flood map. It was extracted using F-MIT On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov

Reference 54

U.S.G.S. 7.5' Topographic Maps (1:24000) for Waycross West (1967, photorevised 1988), Waycross East (1967, photorevised 1988), Hoboken West (1967, photorevised 1988), Dixie (1971, photorevised 1988), and Blackshear West (1971, photorevised 1988) are included in Figure 5 in the Figures section of this report.

Reference 55

U.S.G.S. 7.5' Wetland Inventory Maps (1:24,000) for Waycross East (1980) and Hoboken West (1980), included in Figure 6 in the Figures section of this report

Reference 56

.ter Resources

Data Category: Site Information
Geographic Area: Georgia

Site Map for Georgia

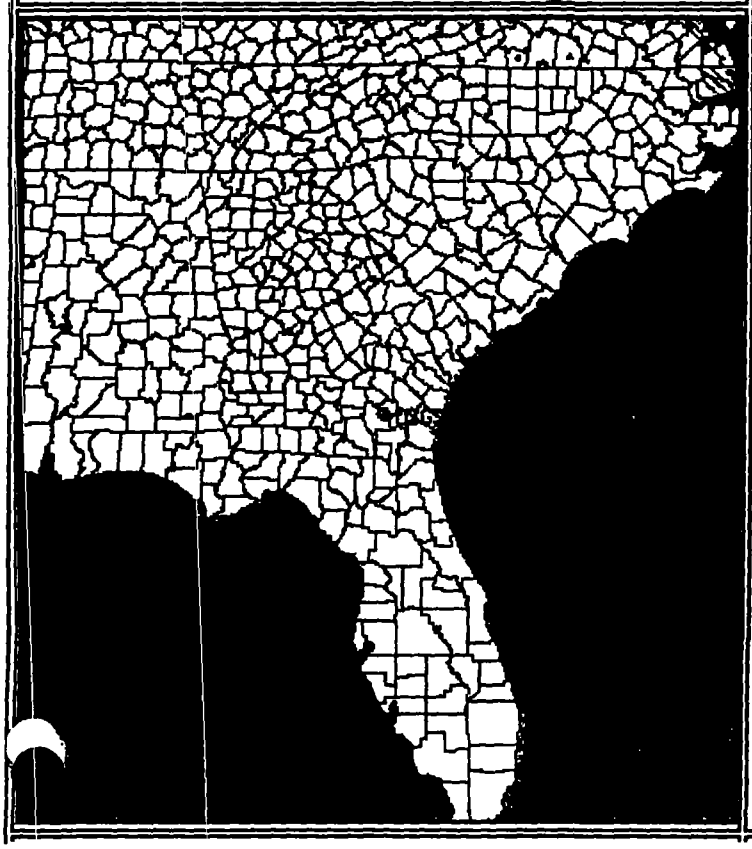
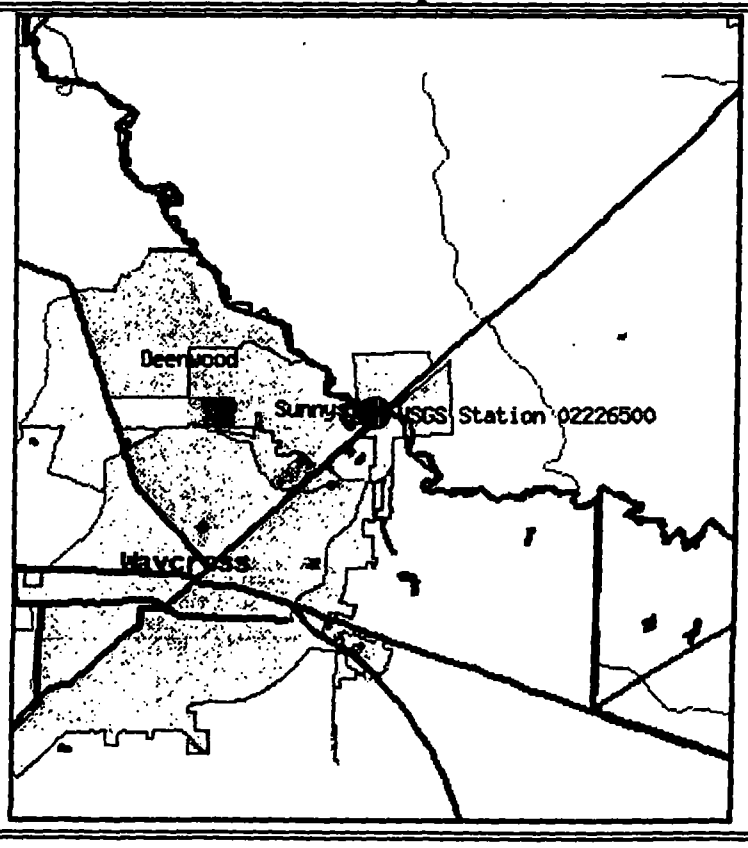
Times for Georgia stations are shown as Eastern Standard Time. If your clock is set to Eastern Daylight Savi Time, add one hour to the time shown on the Web page to compare to your clock time.

Additional information may be found on the USGS Water Resources of Georgia page, including low-flow statistics and flood-frequency information for selected stations.

USGS 02226500 SATILLA RIVER NEAR WAYCROSS, GA

Available data for this site site map GO

Ware County, Georgia
Hydrologic Unit Code 03070201
Latitude 31°14'17", Longitude 82°19'29" NAD27
Drainage area 1,200 square miles
Contributing drainage area 1,200 square miles
ge datum 66.43 feet above sea level NGVD29

Location of the site in Georgia.	Site map.
	

ZOOM IN 2X, 4X, 6X, 8X, or ZOOM OUT 2X, 4X. 6X.

Maps are generated by US Census Bureau TIGER Mapping Service.

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Feedback on this website Georgia NWISWeb Maintainer

Top
Explanation of terms

NWIS Site Inventory for Georgia: Site Map
http://waterdata.usgs.gov/ga/nwis/nwismap?

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ter Resources

Data Category: Surface Water | Geographic Area: Georgia

Calendar Year Streamflow Statistics for Georgia

Times for Georgia stations are shown as Eastern Standard Time. If your clock is set to Eastern Daylight Savin Time, add one hour to the time shown on the Web page to compare to your clock time.

Additional information may be found on the USGS Water Resources of Georgia page, including low-flow statistics and flood-frequency information for selected stations.

USGS 02226500 SATILLA RIVER NEAR WAYCROSS, GA

Available data for this site Surface-water: Annual streamflow statistics GO

Ware County, Georgia
Hydrologic Unit Code 03070201
Latitude 31°14'17", Longitude 82°19'29" NAD27
Drainage area 1,200 square miles
Contributing drainage area 1,200 square miles
Gage datum 66.43 feet above sea level NGVD29

Output formats

- HTML table of all data
- Tab-separated data
- Reselect output format

Year	Annual mean streamflow, in ft^3/s	Year	Annual mean streamflow, in ft^3/s	Year	Annual mean streamflow, in ft^3/s	Year	Annual mean streamflow, in ft^3/s
1938	410	1955	200	1972	1,140	1988	748
1939	842	1956	502	1973	1,865	1989	282
1940	447	1957	729	1974	943	1990	581
1941	289	1958	1,224	1975	1,586	1991	2,298
1942	1,044	1959	1,368	1976	1,717	1992	1,466
1943	503	1960	1,266	1977	1,197	1993	1,048
1944	1,784	1961	947	1978	975	1994	1,635
1945	969	1962	578	1979	1,242	1995	1,061
1946	1,043	1963	798	1980	1,080	1996	333
1947	2,016	1964	2,589	1981	118	1997	1,394
1948	1,880	1965	1,320	1982	913	1998	1,639
1949	1,216	1966	1,269	1983	1,986	1999	166
1950	520	1967	745	1984	1,841	2000	256
1951	691	1968	216	1985	602	2001	423

1952	464	1969	1,019	1986	1,316	2002	228
1953	1,100	1970	1,242	1987	1,412	2003	1,737
1954	232	1971	1,227				

Questions about data Georgia NWISWeb Data Inquiries
Feedback on this website Georgia NWISWeb Maintainer

Top
Explanation of terms

Surface Water data for Georgia: Calendar Year Streamflow Statistics
http://waterdata.usgs.gov/ga/nwis/annual/calendar_year?

Retrieved on 2005-07-06 11:25:36 EDT
Department of the Interior, U.S. Geological Survey
USGS Water Resources of Georgia
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0.97 0.93 nadww01

Reference 57

E. WILLIAMS

AVERAGE ANNUAL RAINFALL AND RUNOFF IN GEORGIA, 1941–70

ROBERT F. CARTER

AND

HAROLD R. STILES

Prepared as part of the

Accelerated Ground-Water Program

in cooperation with the

Department of the Interior

United States Geological Survey

Department of Natural Resources
Joe D. Tanner, Commissioner

Environmental Protection Division
J. Leonard Ledbetter

Georgia Geologic Survey
William H. McLemore

ATLANTA

1983

HYDROLOGIC ATLAS 9

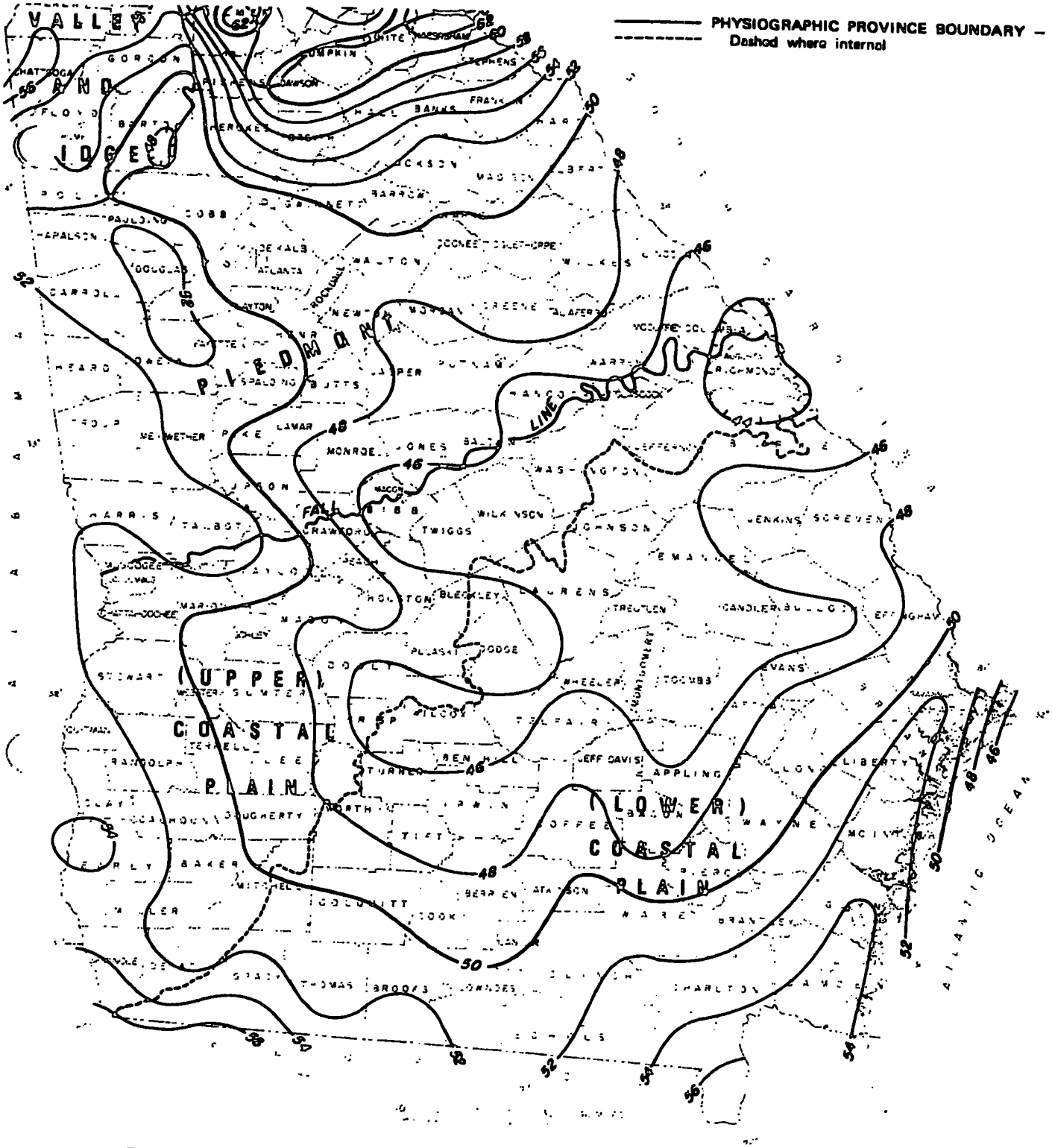

Figure 1.—Average annual rainfall in Georgia, 1941-70, and physiographic provinces.

The State received an average of 50 inches of rainfall per year, ich varied locally from less than 44 inches to more than 70 inches, l also varied greatly from year to year.

The map was prepared from data furnished by the National ther Service and was reviewed by that agency. Rainfall data are ected at specific points, well distributed throughout the State, and vide point samples of the amount of rainfall that occurs. From these samples, data interpolations and extrapolations were made and approximate lines of equal value were drawn. This process is similar to the method of compiling topographic maps using evenly distributed points of known land elevation. The map of average annual rainfall shown here is a reasonable representation of average annual rainfall for the State during the indicated time period, but caution should be used in interpolating between lines of equal value on the map, particularly in mountainous areas.

Reference 58

THE
SATILLA
INITIATIVE

CONTENTS

THE SATILLA INITIATIVE

Introduction & Overview

Terminology

- "BMPs" refers to Best Management Practices
- "Best Management Practices" as used in this document refers to the Environmental Protection Agency definition as A practice or combination of practices determined to be the most practicable means of preventing or reducing, to a level compatible with water quality goals, the amount of pollution generated by nonpoint sources. BMPs are selected on the basis of site-specific conditions that reflect natural background conditions and political, social, economic, and technical feasibility.
- "CWA" refers to the Clean Water Act
- "Clean Water Act" as used in this document refers to the Environmental Protection Agency definition as The Clean Water Act (formerly referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972), Public Law 92-500, as amended by Public Law 96-483 and Public Law 97-117, 33 U.S.C. 1251 et seq. The Act that sets the basic structure for regulating discharges of pollutants to surface waters of the United States. The Clean Water Act imposes contaminant limitations or guidelines for all discharges of wastewater into the nation's waterways.
- "Debris" as used in this document refers to bottles, cigarette butts, food packaging, sporting equipment, etc. Also referred to as "trash".
- "Designated uses" as used in this document refers to the Environmental Protection Agency definition as those water uses identified in state water quality standards that must be achieved and maintained as required under the Clean Water Act. Uses can include cold water fisheries, public water supply, and irrigation.
- "EPA" refers to the United States Environmental Protection Agency
- "MS4s" as used in this document refers to a municipal separate storm sewer system, such as roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, storm drains and are owned or operated by a state, city, town, borough, county, parish, district, association, or other public body having

jurisdiction over disposal of sewage, industrial wastes, stormwater, or other wastes; Designed or used for collecting or conveying stormwater; Which is not a combined sewer; and Which is not part of a publicly owned treatment works.

- "NPDES" refers to the National Pollution Discharge Elimination System

- "National Pollution Discharge Elimination System" as used in this document refers to the Environmental Protection Agency definition as the national program for controlling discharges of pollutants from point sources (e.g., municipal sewage treatment plants, industrial facilities) into the waters of the United States.

- "Nonpoint sources" as used in this document refers to the Environmental Protection Agency definition as source of pollution in which wastes are not released at one specific, identifiable point but from a number of points that are spread out and difficult to identify and control; Large land area such as crop fields and urban areas that discharge pollutant into surface and underground water over a large area.

- "Point sources" as used in this document refers to the Environmental Protection Agency definition as any discernible confined and discrete conveyance, including, but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel, or other floating craft from which pollutants are or may be discharged. This term does not include return flows from irrigated agriculture or agricultural stormwater runoff.

- "Pollutant" as used in this document refers to the Environmental Proctection Agency definition as a contaminant in a concentration or amount that adversely alters the physical, chemical, or biological properties of the environment. The term includes pathogens, toxic metals, carcinogens, oxygen-demanding materials, and all other harmful substances. With reference to nonpoint sources, the term is sometimes used to apply to contaminants released in low concentrations from many activities that collectively degrade water quality. As defined in the federal Clean Water Act, pollutant means dredged spoil; solid waste; incinerator residue; sewage; garbage; sewage sludge; munitions; chemical wastes; biological materials; radioactive materials; heat; wrecked or discarded equipment; rock; sand; cellar dirt; and industrial, municipal, and agricultural waste discharged into water.

- "P E & O" as used in this document refers to Public Education & Outreach

- "Stakeholders" as used in this document refers to the Environmental Protection Agency definition as any entities involved in or affected by watershed management activities within a watershed; covers a broad range of people and organizations, including government agencies, nongovernmental organizations, businesses, agricultural entities, the public, and the regulated community.

- "Stormwater" as used in this document refers to the Environmental Protection Agency definition as stormwater runoff, snow melt runoff, and surface runoff and drainage; rainfall that does not infiltrate the ground or evaporate because of anthropogenic land use causing impervious surfaces or other geomorphic changes. The flow of stormwater runoff onto adjacent land, through watercourses or drain/sewer systems may transport pollutants.

- "SMPs" refers to Stormwater Management Practices

- "Watershed" as used in this document refers to the Environmental Protection Agency definition as the area of land from which rainfall (and/or snow melt) drains into a stream or other water body. Watersheds are also sometimes referred to as drainage basins or drainage areas.

- "Watershed management" as used in this document refers to the Environmental Agency definition as a holistic approach applied within an area defined by hydrological, not political, boundaries, integrating the water quality impacts from both point and nonpoint sources. Watershed management has a premise that many water quality and ecosystem problems are better solved at the watershed scale rather than by examining the individual waterbodies or dischargers.

Abstract

Generally, stormwater occurs when rain runs off roads, yards and roofs and down gutters into stormwater grates. Stormwater picks up silt, contaminants, and even large solid waste as it runs over these surfaces. The stormwater runs untreated into bodies of water, causing pollution and contamination.

Problems with stormwater in the city of Waycross have led to pollution of the Satilla River and local sewage spills. After heavy rains excess water drains into sewage manholes and causes the manholes to overflow. The overflow water picks up large pieces of solid waste consisting of "low hanging fruit" (i.e. basketballs, bats, etc.), litter (i.e. bottles, cigarette butts, etc.), and medical waste (i.e. syringes, vials, etc.), carrying the waste into canals, the canals then carrying the waste into the river. The stormwater has also caused sewage spills, which have damaged homes and buildings in the Waycross area.

As the Satilla River becomes more polluted with each rainfall, the health and ecological risks correspondingly increase. Waste in the river jeopardizes the safety of fish consumption and may

cause the river to fall short of its designated use requirements. Likewise, the polluted waters degrade the Satilla's habitat. In light of these threats, concerned Waycross citizens and local government has requested legal research assistance and affordable solutions for the town's stormwater management problems.

Ultimately this project will recommend stormwater/litter solutions to local decision-makers, and will provide community education about how locals can help alleviate the Satilla Watershed pollution problem.

Listening to Stakeholders

Taking into consideration the needs, comments, and concerns of the stakeholders listed below, the Satilla Stormwater Team devised a scheme to address these concerns through a community Public Education and Outreach strategy via K-12 education, legal avenues, and the Internet.

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Situational Analysis & Best Management Practices Research

Context

In 1972, the National Pollutant Discharge Elimination System (NPDES) program was established by the Clean Water Act (CWA).[1] Congress amended the CWA in 1987 to require the EPA to implement a NPDES Stormwater Permit Program for municipal discharges. Based on these amendments phase I of the NPDES Stormwater program was established in 1990, requiring larger municipalities (population 100,000 or greater) to get a NPDES permit. Phase II of the program began in 1999, requiring certain smaller communities to come into the permit program. These smaller communities are known as small municipal separate storm sewer systems (MS4s) and they become part of the phase II program in one of three ways: (1) automatic designation when defined as an "Urbanized Area" by the U.S. Census Bureau, (2) state designation which will be detailed below, and (3) petitioning if there is a significant water concern in the community.

Georgia can designate municipalities under the phase II program to require a NPDES permit. Under the federal regulations, the state's designation criteria must at least be applied to all "Outside Urbanized Areas," any area that has a population of 10,000 or more and a density of 1,000 people per square mile. The designation criteria

[1] 33 U.S.C. § 1251 et seq..

must include a balanced consideration of: (1) Discharge to sensitive waters, (2) High population growth or growth potential, (3) High population density, (4) Contiguity to an Urbanized Area, (5) Significant contributor of pollutants, and (6) Ineffective protection by other programs.[2] Georgia's designation criteria focus primarily on growth rate and the presence of impaired waters identified on Georgia's 303(d) list. Currently, Cordele is the only Georgia city outside an urbanized area required to obtain permit coverage based on designation criteria. On August 22, 2002 Georgia identified 57 cities and 29 counties needing NPDES permit coverage under the phase II stormwater rule, they are listed in Appendix A.

The City of Waycross has not been required by the state of Georgia to get a phase II NPDES permit. However, the City is considered an "Outside Urbanized Area" given its population size and density and may be required to meet federal standards in the future. The Satilla watershed currently contains 3 rivers that are on the CWA § 303(d) list (Hog Creek and 2 segments of the Seventeen Mile River) requiring Total Maximum Daily Loads to be established. Several other waterways are not meeting their designated uses in the watershed, including the Waycross City Drainage Canal.

The deterioration of the Satilla Watershed around Waycross is a cause of serious local concern, and the community must get involved in order to preserve the health of the surrounding environment. Because stormwater pollution caused by various activities, regulation can only go so far to control the problem. Education and outreach are "key components to any successful stormwater program."[3] Should the City of Waycross

[2] 40 C.F.R. § 123.35(b)(1)(ii).
[3] EPA Year of Clean Water, <http://www.epa.gov/ow/yearofcleanwater>.

implement a comprehensive stormwater management plan in the future, or become a regulated municipality, the educational groundwork will already be in place.

Current Stormwater Practices in Waycross

The Waycross and Ware County Development Authority constitutes a complete codification of the ordinances of Waycross, Georgia. It contains 37 chapters and several appendices for the purpose of developing and promoting the public good and the welfare of the County of Ware and the City of Waycross and their inhabitants.

There are several ordinances that deal specifically with the issues of stormwater and waste management. Most types of urban development involve the construction of buildings and paved surfaces, which lead to an increase in stormwater runoff. In order to minimize the impact from stormwater runoff caused by development, the city adopted its first storm drainage ordinance in 2000. The City also has regulations dealing with trash collection, solid waste management, littering, sewer use, and industrial waste regulations.

Excessive soil erosion and resulting sedimentation can take place during land-disturbing activities, resulting in damage to water quality. Measures shall be installed to prevent or control erosion and sedimentation pollution during all stages of any land-disturbing activity in accordance with the City of Waycross Soil Erosion and Sedimentation Control Ordinance of 1996.

Best Management Practices Research

One key aspect identified by the Environmental Protection Agency is to incorporate practices that have been determined to be the most practicable means of

preventing or reducing water pollution. One of these practices is a community education and outreach strategy. In summary, the most successful Public Education & Outreach campaigns incorporate: this needs a footnote that some of it is modified from the Toronto thing- not finished

- "In person" contact and outreach;
- Incentives, such as free or rebated materials;
- Reaching people with the message many times in many different ways;
- Separate and specific campaigns for each different behavior to be changed;
- Flexibility in approach: different groups and sectors need to be targeted and reached in different ways (e.g., small businesses need a different approach than residents);
- Positive approaches rather than those that condemn past practices;
- Partnerships between government, the private sector and NGOs to provide expertise, services or in-kind donations; and,
- Strategies to focus public attention on the issue so businesses and other groups want to get involved.

By incorporating these stormwater P E & O best practices approaches into the Public Education & Outreach Strategy for the stormwater management plan, the City of Waycross and its residents will achieve the greatest stormwater improvements in the most effective way possible. In these stages of our P E & O strategy we have initiated contact with different members of the Waycross community, including educators, municipal officials and environmental advocates. Public focus is aimed at the issue via educational brochures, posters, and the website, each with specific campaigns for the different

stakeholders. All of these have the same brand image that helps provide identity to the campaign.

One aim of the Waycross P E & O strategy is to introduce environmentally friendly life style plans to the community, with much of the campaign aimed at the school-age children. Its is more effective to influence those, such as children, who have not fully developed their life style practices and habits. The P E & O strategy we are implementing for Waycross uses education to teach practices that promote practical means of reducing stormwater pollution, rather than criticize current practices. With this approach our goal is to develop and foster an interest in the environment within the community.

EPA Guidelines

Regulated small MS4 communities are required to develop, implement and enforce a program to reduce the discharge of pollutants to the maximum extent practicable (MEP). The program must include six minimum control measures as well as evaluation/assessment efforts and proper record keeping. The six minimum control measures are:

- Public Education and Outreach
- Public Involvement / Participation
- Illicit Discharge Detection and Elimination
- Construction Site Runoff Control
- Post-Construction Storm Water Management in New and Redevelopment
- Pollution Prevention / Good Housekeeping for Municipal Operations

Each minimum control measure should include best management practices, measurable goals, time and frequency of actions, and a list of responsible persons.

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Education & Awareness

EPA Recommendations for Public Education & Outreach on Stormwater Impacts

The federal government requires regulated MS4 municipalities to implement a public education program to distribute educational materials to the community or conduct equivalent outreach activities about the impacts of storm water discharges on water bodies and the steps that the public can take to reduce pollutants in storm water runoff.[4]

The public education program should inform individuals and households about steps they can take to reduce storm water pollution. EPA recommends that the program inform the community how to become involved in local stream and watershed conservation activities, as well as coordinate activities involving youth groups, conservation corps, or other citizen groups. It is recommended that the public education program be tailored, using a mix of locally appropriate strategies, to target specific audiences and communities. EPA also suggests that some of the materials or outreach programs be geared towards groups of commercial, industrial, and institutional entities likely to have significant storm water impacts. The program should be tailored to address the different viewpoints and concerns within the local community, particularly minorities and children.

[4] 40 C.F.R. § 122.34(b)(1).

Umbrella Approach needs footer here too- not finished

In order to achieve maximum effectiveness, the Public Education & Outreach strategy should have an umbrella approach that provides consistent verbal and visual cues to the targeted audiences. This umbrella approach will:

- provide an overall campaign identity;
- provide necessary repetition for campaign tag lines and identifying 'brands' without adding additional advertising or branding costs;
- provide a City-wide theme for the campaign, especially important when used in support of a localized activity;
- help reach the audience several times with the same message through the use of different messengers;
- allow partners to 'co-brand' their targeted outreach efforts; and,
- be conducive to modular and flexible components – new elements and new projects that can be added and adapted over the five year life of the strategy.

Additionally, research supports the value of a 'problem first, solutions second' approach, which means the overall campaign identity should focus first on increasing awareness about the problem, or issue, the stormwater management plan is designed to resolve. Water quality, the Satilla River and river pollution are the 'problem end' of the problem-solution equation, and should be a primary focus.

The campaign uses a multi-tiered educational approach that begins with teaching the youth in the community about stormwater pollution and includes outreach to the adults through a website, brochures and other resources. Binders have been put together that are a compilation of educational and legal documents for schools and municipalities.

All of these channels of education and outreach are united by a similar theme and a brand image that includes the "Waycross Watershed Fish" and The Satilla Initiative logo, which are repeated throughout the different components of the campaign. These visual cues will aid in identification of our campaign for all of the targeted audiences.

Target Areas & Audiences

- General Community: The Waycross's Watershed website, designed by the Stormwater Management Team, will target the general community. It is tailored to be informative to all Waycross locals; it can be useful to educators and school age children (grades K-12), as well as other interested individuals looking for ways to get involved in the Satilla Watershed
- Fishermen and Hunters: Targeting fishermen and hunters is necessary because they understand that the river must be clean to make it safe to consume the fish caught there and that the watershed must be healthy to support biota. The community as a whole can appreciate this message because it is a non-aggressive approach that raises a legitimate concern. This message is especially important to convey in less environmentally conscious communities like Waycross.
- Educators/Students: Education is an essential means for the successful conveyance of issues surrounding the Satilla Watershed. Teachers should incorporate more stormwater/watershed information in their lesson plans to raise awareness among the children, and among the teachers as well. Further, children will discuss these environmental lessons learned at school with their parents, another audience that could potentially be impacted by the message. The Public Education and Outreach

strategy for Waycross specifically targets elementary and high school age children with different campaigns using the same message.

- Municipal Authorities: The Stormwater Management Team has created a binder for the municipal authorities to reference. The binder is a compilation of scientific and educational data specific to Waycross, the Satilla Watershed and legal information concerning Best Management Practices and Stormwater Management Plans.

Recommended Next Steps

According to the U.S. Environmental Protection Agency, nonpoint source pollution is the number one cause of the nation's water pollution. Diffuse sources of water runoff from the landscape that carries pollutants such as sediment, pesticides and salts, heavy metals and nutrients, constitute nonpoint source pollution.

This type of pollution results from a wide variety of activities over a wide area. The best way to reduce nonpoint source pollution is through a coordinated approach working in partnership with the watershed community. Watershed-based management is the most effective way to enhance water quality and natural resources, protect critical wildlife habitat, prevent soil erosion, and sustain economic activities while managing the pressures of an urbanizing landscape.

Stormwater management practices (SMPs) are the basic mitigation measures used in the stormwater quality management plans to control pollutants within the City. In most cases it is much easier and less costly to prevent the pollutants from entering the drainage system than trying to control pollutants with structural SMPs. The non-structural SMPs should be the first line of defense in protecting the receiving streams. If used properly, the non-structural SMPs can be very effective in controlling pollutants and

greatly reduce the need for structural SMPs. In addition, non-structural SMPs tend to be less costly, easier to design and implement and easier to maintain than structural SMPs. Structural SMPs would include extended detention/retention ponds, constructed wetlands, infiltration trenches, and filter strips.

Non-structural SMPs normally do not have technical or engineering designs associated with them but are measures that the City or other agencies or groups might require or implement to assist in the management water quality and the control of pollutants within the City. A brief outline of non-structural SMPs that can be used within a stormwater quality management plan for different portions of the City follows.[5]

Public education/ participation is not so much a stormwater management practice as it is a method by which to implement SMPs. Public education/ participation are vital components of many of the individual source control SMPs. A public education and participation plan provides the City with a strategy for educating its employees, the public, and businesses about the importance of protecting stormwater from improper use, storage, and disposal of pollutants.

City employees must be trained, especially those that work in departments not directly related to stormwater but whose actions affect stormwater. Residents must become aware that a variety of hazardous products are used in the home and that their improper use and disposal can pollute stormwater and groundwater supplies. Businesses, particularly smaller ones that may not be regulated by Federal, State, or local regulations, must be informed of ways to reduce their potential to pollute stormwater.

[5] Griffin Stormwater Manual, <http://www.griffinstorm.com>.

Suggested public education and outreach SMPs for year one:

	Description	*Target Audience*	*Goals*	*Schedule*	*Rationale*
SMP #1	Waycross & Ware County School District will educate school children through the use of the "Water Source" book	School children from K-12	Educate young people about their unique environment, and make them more involved in protecting the watershed	Yearly, in accordance with the state curriculum... Specifically grades 2, 7, 8, and high school biology	Not only will the children gain a vested interest in their local community, parents are included in the process and may learn from their kids
SMP #2	Disseminate all relevant community news and watershed information on the Waycross's Watershed website	General Population	City (perhaps in conjunction with the local college) takes control of website from Satilla Initiative, becomes legitimate source of information within the community	Update the website quarterly	Websites are inexpensive and relatively easy to maintain, broad impact
SMP #3	Distribute information flyers in utility bills	General Population	Mail flyers to all Waycross residents… educate the community at large	Yearly	Good reminder to all homeowners and business owners… can be easily customized for different target groups
SMP #4	Publish an annual report to all citizens on scientific state of the Satilla Watershed plus new developments	General Population	Publish on the website and in the Waycross Journal-Herald… educate the community at-large	Yearly	Good reminder about the importance of the health of the Satilla… catches large segment of the community

SMP #5	Maintain brochures in the local government offices, library, etc.	General Population	Educate the community at-large	New brochure yearly… must maintain a good supply at all times	Educates people about stormwater issues while they are conducting other business

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Moving Forward

Practical Solutions

The Stormwater Management Team has researched possible solutions to the stormwater debris problem that are economically and environmentally beneficial to the community. One obstruction to finding practical solutions that was encountered, however, arose from the uncertainty of the sources of trash. It has been determined via information from local stakeholders that much of the trash is washing into the local storm drains through the canal system. The trash is dropped along roadsides where it is washed and/or blown into the gutters and transported through the canal system into the Satilla River. Other debris is washed over the land by storm events or is directly dumped in or near the river. Because there are several different identified means of access for trash to enter the river, there is no one solution that would retard the flow of trash into the river.

There is not much that can be done to prevent people from dumping trash illegally into the water body, besides impractical constant monitoring of all access points from the road to the river and the enforcement of current ordinances and laws against illegal dumping. This is costly in the number of people and hours that must be employed to monitor dumping sites.

However, two further recommendation for future consideration and possible implementation include erecting signage stating laws and fees for dumping and guardrails along roads and highways located adjacent to the Satilla river. Guardrails would

eliminate much of the illegal dumping that is occurring. By eliminating off road access to the river, it would be more difficult to purposefully dump trash into the Satilla.

As to the trash accessing the river via the canal, there are several measures that can be taken to reduce or eliminate this entryway. One such means is constructing grates that would be placed on existing stormwater drains. Many of the stormwater drains in Waycross are lacking any preventative measures for blocking or capturing trash during storm events. Stormwater runoff picks up silt, contaminants and trash as it runs along the surfaces of roads, yards and gutters. The stormwater then enters in the drainage pipes were it is discharged into bodies of water, including the Satilla River. This causes unnecessary pollution and contamination of the river and can lead to health and ecological risks. Erecting grates on the drains would prevent most of the trash from entering the pipes and subsequently, the river. Another possible solution is to install a system that removes trash from stormwater at the first stage. The first stage occurs where trash and stormwater enter sewer lines. At this point debris can be separated out from the stormwater via vortex motion. This technology cannot be employed once the debris and stormwater have entered the river, as the system cannot distinguish between biological matter and targeted pollutants.

Technology such as dams and weirs are not recommended by the Stormwater Management Team due to the indiscrimination between natural and unnatural matter, sedimentation and downstream scouring associated with them.

The Stormwater Management Team recommends a future study or survey to determine the sources and the entryways of trash into the Satilla River. Once this is complete, the proper technology can be implemented. It is possible that such a

technology would only have to be used during periods of high-energy storms and heavy rainfall. These months have historically occurred during the summer months. Installation of the proper technology and use of historical average monthly rainfall data could save the city money and manpower.

Community Involvement

Though not an exhaustive list, the following paragraph suggests some means through which Waycross locals can get involved in their Satilla Watershed.

- River Clean Ups: A river cleanup is a fantastic way to keep your watershed clean. In fact, the Waycross Garden Club Council and the Oleander District Garden Club of Georgia already organize a cleanup. Likewise, in coordination with Rivers Alive, the annual volunteer Satilla River cleanup occurs every October. www.riversalive.org.
- Georgia's Adopt-a-Stream: This organization is Georgia's volunteer water quality monitoring program. The registration form and the watershed survey data forms may be found in the introductory manual for Georgia Adopt-A-Stream, called "Getting To Know Your Watershed". This organization is coordinated through the Georgia Department of Natural Resources, Environmental Protection Division. http://www.riversalive.org/aas.htm
- Satilla Riverwatch Alliance Inc. (SRWA): This organization encourages and supports the development of the Satilla Riverkeepers program. Frank Quinby at frankquinby@bellsouth.net may be contacted for further information or to get involved.

- Recycling Programs: Another way that Waycross locals can be proactive in Watershed protection is by recycling. The website, www.earth911.org, allows users to search for recycling centers by zip code. Community members may find locations where they can take various types of hazardous materials along with normal household items as well to be recycled.
- Satilla Day: This is an idea for the future that will expand on the community efforts above. Satilla Day should be timed with Earth Day in April every year, and should involve a cleanup of the river, some educational activities, as well as other related events. Ideally this type of environmental awareness day would encourage maximum community participation, providing a means through which local schools, scouting groups, 4-H clubs, and concerned citizens could all get involved.

Other City PE & O Initiatives

Material Disposal And Recycling

Material storage control is used to prevent or reduce the discharge of pollutants to stormwater from material delivery and storage by minimizing the storage of hazardous materials onsite, storing materials in a designated area, installing secondary containment, conducting regular inspections, and training employees and subcontractors. Vehicle use reduction is used to reduce the discharge of pollutants to stormwater from vehicle use by high-lighting the stormwater impacts, promoting the benefits to stormwater of alternative transportation, and integrating initiatives with existing or emerging regulations and programs.

There are three major SMPs included in this category:

- **Storm Drain System Signs**

Stenciling of the storm drain system (inlets, catch basins, channels, and creeks) with prohibitive language/ graphic icons discourages the illegal dumping of unwanted materials. Storm drain system signs act as highly visible source controls that are typically stenciled directly adjacent to storm drain inlets.

- **Household Hazardous Waste Collection**

Household hazardous wastes are defined as waste materials which are typically found in homes or similar sources, which exhibit characteristics such as: corrosivity, ignitability, reactivity, and/ or toxicity, or are listed as hazardous materials by the EPA. Household hazardous waste collection programs are a preventative rather than curative measure and may reduce the need for more elaborate treatment controls. Programs can be a combination of permanent collection centers, mobile collection centers, curbside collection, recycling, reuse, and source reduction.

- **Used Oil Collection**

Used oil recycling is a responsible alternative to improper disposal practices such as dumping oil in the sanitary sewer or storm drain system, applying oil to roads for dust control, placing used oil and filters in the trash for disposal to landfill, or simply pouring used oil on the ground. Commonly used oil collection alternatives are a temporary "drop off" site on designated collection days or the use of private collectors such as automobile service stations, quick oil change centers and auto parts stores.

Street/ Storm Drain Maintenance

There are seven major SMPs included in this category:

- **Roadway Cleaning**

Roadway cleaning may help reduce the discharge of pollutants to stormwater from street surfaces by conducting cleaning on a regular basis. However, cleaning often removes the larger sizes of pollutants but not the smaller sizes. Most pollutants are deposited within three feet of the curb which is where the roadway cleaning should be concentrated.

- **Catch Basin Cleaning**

Catch basin cleaning on a regular basis also helps reduce pollutants in the storm drain system, reduces high pollutant concentrations during the first flush of storms, prevents clogging of the downstream conveyance system and restores the catch basins' sediment trapping capacity.

- **Vegetation Controls**

Vegetation control typically involves a combination of chemical (herbicide) application and mechanical methods. Mechanical vegetation control includes leaving existing vegetation, cutting less frequently, hand cutting, planting low maintenance vegetation, mulching, collecting and properly disposing of clippings and cuttings, and educating employees.

- **Storm Drain Flushing**

Storm drains can be "flushed" with water to suspend and remove deposited materials. Flushing is particularly beneficial for storm drain pipes with grades too flat to be self cleansing and helps ensure pipes convey design flow and removes pollutants from the storm drain system. However, flushing will only push the pollutants into downstream receiving waters unless the discharge from the flushing is captured and removed from the drainage system. Jet-Vac trucks should be employed to remove debris from this process.

- **Roadway/ Bridge Maintenance**

Roadway/ bridge maintenance is used to prevent or reduce the discharge of pollutants to stormwater by paving as little as possible, designing bridges to collect and convey stormwater to proper locations, using measure to prevent runoff from entering the drainage system, properly disposing of maintenance wastes, and training employees.

- **Detention/ Infiltration Device/Drainage Channel/ Creek Maintenance**

Proper maintenance and siltation removal is required on both a routine and corrective basis to promote effective stormwater pollutant removal efficiency for wet and dry detention ponds and infiltration devices. Also, regularly removing illegally dumped items and material from storm drainage channels and creeks will reduce pollutant levels.

Implementation of Stormwater Management Plan

Appendix A:
Georgia Cities & Counties Needing Phase II NPDES Permit Coverage

Appendix B:
Population for Storm Water Entities as Defined by the 2000 Census

Appendix C:
Satilla River Basin Management Plan 2002

Appendix D:
Georgia Phase II Storm Water Permitting Strategy

Appendix E:
Draft Model Post-Development Stormwater Management Ordinance

Information for Funding

EPA Environmental Education Grants Program[6]

EPA's environmental education grants, authorized by the National Environmental

[6] <http://www.epa.gov/enviroed/grants.html>.

Education Act (NEEA) of 1990, are awarded to carry out environmental education projects. The EPA Environmental Education Grants Program is designed to stimulate the development of environmental education projects at the community level by local schools and environmental organizations, and to facilitate environmental education partnerships between governmental agencies, educational institutions, non-profit organizations, and the private sector. Projects are intended to motivate the public to be more environmentally conscious and make responsible and balanced decisions to protect the environment.

The U.S. Environmental Protection Agency Region 4 awarded 19 grants totaling approximately $200,000 as a result of the 2003 competition for environmental education grants.

Clean Water State Revolving Loan Fund (CWSRF)[7]

The Clean Water State Revolving Loan Fund (CWSRF) is a Federal fund administered by the Georgia Environmental Facilities Authority (GEFA) for waste water projects.

Water and Wastewater System Financing[8]

Low interest rate loans are available under several loan programs. GEFA and EPD have worked together to finance over $1 billion in improvements since 1984. GEFA loans bridge the gap between local environmental infrastructure needs and the financial resources to pay for them.

[7] <http://www.gefa.org/cwsrf.html>.
[8] <http://www.gefa.org/water_and_sewer.html>.

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Case Studies

Medical Waste

Because dumpsters used by the Satilla Regional Medical Center were located on ground above canals, medical waste, such as syringes and vials, was carried by the canals to the Satilla River during periods of wind or heavy rains. When the medical waste was found during a cleanup of the Satilla River, the problem was identified and brought to the attention of officials at Satilla Regional Medical Center. The problem was ultimately solved by the simple relocation of the dumpster.

River Clean-ups

Various different groups sponsor yearly or seasonal Satilla River clean-ups. A clean-up sponsored by Waycross Garden Club Council, and the Oleander District Garden Club of Georgia involved 40 participants who cumulatively worked 150 hours in the river's "crud zone," where much of the trash in the river washes. The garbage collected filled a roll away dumpster and its total weight was 1400 lbs. Another recent clean-up in the same area yielded 2,175 lbs of trash. footnote this too? (ask aharon)

Below are some of the clean-ups that have occurred in the Satilla River over the past few years.

possibly put this table as an appendix??

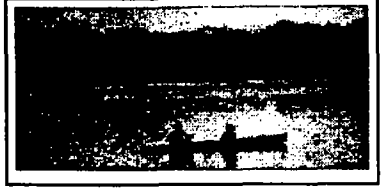
Association	Participants	hours	# of bags	Dump Trucks	Lbs Garbage	Miles Cleaned	Most common Item	Most Unusual Item	Success	Suggestions	Effectiveness	Support
Save Our Satilla	24	98	78	—	—	3	Beer cans and bottles	Cue ball	Very much. This is a river community who throw their trash on the roads, ditches, and near boat landings, also visitor to the river. The children are our only hope. SOS has a junior membership and they promise to respect the river and pick out the litter.	Tee shirts are incredible. The posters were so good they kept taking them. Start later in the day, we started at 9 am and should start at 10 or 11.	Handed out water use paper and encouraged and educated all participants as well as cars driving by.	We have no budget. We only had water and a prize for the most bags. Everything else SOS members donated 25 dollars.

Waycross Garden Club Council	40	150		One roll-away dump ster	1400	4		Ladies' gold evening shoes, gigantc c plastic football , 65 lb stereo speaker	We considered it a great success! Everyone was enthusiastic and enjoyed themselves. I was overwhelmed by the generosity of some of the companies (Kroger and Coca-cola) and by the fine people who gave up their Saturday morning to help.	1) Start sooner in planning. 2) Get a team to help more. 3) Check several sites to see which is most accessible and which needs cleaning the most.	The other co-chair and I have had overwhelming ly positive feedback from everyone who spoke to us about the project. Every person had a smile on their face, and this event really brought out the cream of the crop in good people to help. My husband is an svid lifelong fisherman and has many friends who are as well, and I asked them to come. Every one of them I asked came!	Wal-Mart - $25 shopping card, Kroger – 6 dozen donuts, many cakes and pies, balloons, and all the trash bags we needed. They even went for more when we ran out. Their supervisor helped with the cleanup. Southland Waste Systems – free use of dumpster, Peacock Septic Systems – ½ off on Port-o-let.
Let's Fill The Pavillion River Clean-up Campaign	29	116	145	---	2175	2	Mountai n Dew 20 oz bottles	Pack of unopen ed oreo cookies and 350 block to a car	yes	---	The community as a whole donated all prizes and food. We made it a social event also. Everyone who donated items last year, doubled their donation this year.	We had 6 gift certificates valued at $25 each and various other items donated plus Boston butts, rolls, bbq sauce, plates, napkins, etc. from out local grocery store. The community as a whole is really behind this project.
Bellsouth Pioneers	5	25	12	---	180	1	Beer bottles	---	Yes	---	---	---

changes still to be made:
fix tables..... some need to be in landscape mode, maybe as appendices?
conclusion
some things need to still be footnoted!!! (cleanup and add info), campaigns, etc

Reference 59

Environmental Protection Division
Georgia Department of Natural Resources



Georgia 305(b)/303(d) List Documents

DRAFT Georgia 2006 305(b)/303(d) List Documents *new*

The Georgia 2006 305(b)/303(d) draft list of waters was prepared as a part of the Georgia 2004-2005 assessment of water quality prepared in accordance with Sections 305(b) and 303(d) of the Federal Clean Water Act and guidance from the U.S. Environmental Protection Agency. Assessed waterbodies are classified according to a comparison of water quality monitoring results to water quality standards and other pertinent information. The comment period on the draft list runs from March 29, 2006 to May 15, 2006. You may review or obtain a copy of any portion of the draft list documents by contacting the Watershed Protection Branch at (404) 675-6236.

- Public Notice - March 29, 2006
- Transmittal Letter to USEPA - March 29, 2006
- Georgia's 2006 305(b)/303(d) Listing Methodology
- Summary of a Comparison of the Georgia Draft 2006 305(b)/303(d) List to the Georgia 2004 305(b)/303(d) List

- **Draft Georgia 2006 305(b)/303(d) List Documents**
  - Data Source Code/Key for Abbreviations
  - 2006 Rivers/Streams Not Fully Supporting Designated Uses
  - 2006 Lakes/Reservoirs Not Fully Supporting Designated Uses
  - 2006 Estuarine Waters Not Fully Supporting Designated Uses
  - USEPA added waters to the Georgia EPD's 305(b)/303(d) List

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Georgia 2004 305(b)/303(d) List Documents (Final)

The Georgia 2004 305(b)/303(d) list of waters was prepared as a part of the Georgia 2002-2003 assessment of water quality prepared in accordance with Sections 305(b) and 303(d) of the Federal Clean Water Act and guidance from the U.S. Environmental Protection Agency. Assessed waterbodies are classified as supporting, partially supporting, or not supporting designated water uses according to a comparison of water quality monitoring results to water quality standards and other pertinent

Outreach

EPD News

Environmental Advisory Council

Website Policies

information.

- Transmittal Letter to USEPA - April 5, 2004
- **Georgia 2004 305(b)/303(d) List Documents**
  - Data Source Code/Key for Abbreviations
  - 2004 Rivers/Streams Partially Supporting Designated Uses (4/5/04)
  - 2004 Rivers/Streams Not Supporting Designated Uses (4/5/04)
  - 2004 Lakes/Reservoirs Not Fully Supporting Designated Uses (4/5/04)
  - 2004 Estuarine Waters Not Fully Supporting Designated Uses (4/5/04)
  - USEPA Letter of August 29, 2003 providing a revised and composite list of waters added to the Georgia EPD's 305(b)/303(d) List

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Georgia 2002 305(b) Report (Final)

A comprehensive evaluation of Georgia's surface water quality is presented in this report to the US Environmental Protection Agency.

Water Quality in Georgia, 2000-2001

Georgia 2002 305(b)/303(d) List Documents (Final)

The Georgia 2002 305(b)/303(d) list of waters was prepared as a part of the Georgia 2000-2001 assessment of water quality prepared in accordance with Sections 305(b) and 303(d) of the Federal Clean Water Act and guidance from the U.S. Environmental Protection Agency. Assessed waterbodies are classified as supporting, partially supporting, or not supporting designated water uses according to a comparison of water quality monitoring results to water quality standards and other pertinent information.

- Transmittal Letter to USEPA - March 27, 2002
- **Georgia 2002 305(b)/303(d) List Documents**
  - Data Source Code/Key for Abbreviations
  - 2002 Rivers/Streams Partially Supporting Designated Uses
  - 2002 Rivers/Streams Not Supporting Designated Uses
  - 2002 Lakes/Reservoirs Not Fully Supporting Designated Uses
  - 2002 Estuarine Waters Not Fully Supporting Designated Uses
  - USEPA added waters to the Georgia EPD's 305(b)/303(d) List
  - USEPA Approval Letter

Georgia 2002 305(b)/303(d) List Map Products Based on April, 2002 List. The spatial data and corresponding map represent the State of Georgia's 2000-2001 assessment of water quality and resulting 2002 305(b)/303(d) list of waters.

- Download Georgia 305(b)/303(d) GIS Database and Map [Revised July 2002] Based on April 2002 list
- Preview Georgia 305(b)/303(d) Map [Revised July 2002] Based on April 2002 list

To view and print the PDF documents on this site, the FREE Adobe Acrobat Reader is required. Click on the Adobe logo below to download it.

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Georgia Environmental Protection Division
Georgia Department of Natural Resources
2 Martin Luther King Jr. Drive, Suite 1152 East Tower
Atlanta, GA 30334
Telephone: 404.657.5947 or 888.373.5947 (toll-free throughout Georgia)

2006 305(b)/303(d) Rivers/Streams Not Fully Supporting Designated Uses

Satilla Basin Streams

Reach Name / Data Source	Reach Location / County	Evaluation / Use	Criterion Violated	Potential Causes	Actions to Alleviate	303(d)	Priority	Extent
Big Creek	South Prong Big Cr. to Satilla River	Partially Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	5 miles
55	Brantley	Fishing						
Big Satilla Creek	Headwaters near Hazlehurst to Sweetwater Cr. near Baxley	Not Supporting	DO, FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3,3	2	34 miles
10,52,55	Jeff Davis/ Appling	Fishing						
Boggy Creek	Headwaters to Lake Lindsay Grace	Partially Supporting	DO	NP	EPD will address nonpoint sources through a watershed protection plan.	X	2	10 miles
55	Wayne	Fishing						
Broxton Creek	Seven Cr. to Seventeen Mile River near Broxton	Partially Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	6 miles
10	Coffee	Fishing						
Buffalo Creek	Little Buffalo Cr. to Satilla River	Not Supporting	FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	X	3	6 miles
55	Brantley	Fishing						
City Drainage Canal	Trib. to Satilla River, Waycross	Not Supporting	FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	3 miles
2	Ware	Fishing						
Colemans Creek	Dry Branch S. of Surrency to Big Satilla Cr. near Screven	Not Supporting	FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	17 miles
55	Appling/ Wayne	Fishing						

2006 305(b)/303(d) Rivers/Streams Not Fully Supporting Designated Uses

Satilla Basin Streams

Reach Name / Data Source	Reach Location / County	Evaluation / Use	Criterion Violated	Potential Causes	Actions to Alleviate	303(d)	Priority	Extent
Dry Creek	Headwaters to Boggy Creek	Partially Supporting	DO, FC	NP	EPD will address nonpoint sources through a watershed protection strategy.	X	2	11 miles
55	Wayne	Fishing						
Hog Creek	Downstream CR185 to Hurricane Cr. near Nicholls	Partially Supporting	FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	10 miles
1,10	Coffee	Fishing						
Hog Creek	Hurricane Cr. to Satilla River S. of Nicholls near Bickley	Partially Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	15 miles
10	Coffee/ Ware	Fishing						
Hurricane Creek	Downstream Little Cr. to Ten Mile Cr. near Alma	Not Supporting	FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	20 miles
10	Bacon	Fishing						
Little Hurricane Creek	Ga. Hwy. 32 to Hurricane Cr.	Not Supporting	DO, FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3,3	2	22 miles
10	Bacon/ Ware/ Pierce	Fishing						
Little Red Bluff Creek	Headwaters to Red Bluff Creek	Not Supporting	DO	NP, M	EPD will address nonpoint sources through a watershed protection strategy. The permit for the Pearson WPCP will be reissued based on the results of any applicable TMDLs.	X	2	8 miles
55	Atkinson	Fishing						
Little Satilla Creek	Dry Branch to Boggy Creek (Dry Creek)	Partially Supporting	DO, FC	NP	EPD will address nonpoint source through a watershed protection strategy.	X	2	9 miles
55	Wayne	Fishing						
Little Satilla Creek	Keene Bay Branch to Dry Branch near Odum	Partially Supporting	FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	10 miles
10	Wayne	Fishing						

2006 305(b)/303(d) Rivers/Streams Not Fully Supporting Designated Uses

Satilla Basin Streams

Reach Name / Data Source	Reach Location / County	Evaluation / Use	Criterion Violated	Potential Causes	Actions to Alleviate	303(d)	Priority	Extent
Little Satilla Creek	Boggy Cr. to Little Satilla River near Screven	Not Supporting	DO, FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3,X	2	3 miles
55	Wayne	Fishing						
Little Satilla River	Big Satilla Cr. to Sixty Foot Branch	Partially Supporting	DO, FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	10 miles
55	Pierce/ Wayne/ Brantley	Fishing						
Pudding Creek	Park Bay to Satilla River N. of Pearson	Not Supporting	DO, FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	9 miles
10	Atkinson	Fishing						
Roses Creek	Upstream Ga. Hwy. 206 to Seventeen Mile River near Broxton	Not Supporting	FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	9 miles
10	Coffee	Fishing						
Satilla Creek	Hunters Cr. E. of Ocilla to Satilla River	Partially Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	7 miles
10	Irwin/Coffee	Fishing						
Satilla River	Rose Cr. to White Oak Cr.	Not Supporting	DO	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	19 miles
1,55	Camden	Fishing						
Satilla River	Six miles d/s of Ga. Hwy. 15 to Bullhead Bluff	Partially Supporting	TWR	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution. Trophic-Weighted Residue of mercury in fish tissue exceeded 0.3 mg/kg.	3	3	76 miles
1,9	Pierce/ Brantley/ Camden	Fishing						

2006 305(b)/303(d) Rivers/Streams Not Fully Supporting Designated Uses

Satilla Basin Streams

Reach Name / Data Source	Reach Location / County	Evaluation / Use	Criterion Violated	Potential Causes	Actions to Alleviate	303(d)	Priority	Extent
Satilla River	Pudding Cr. to Smut Br. near Pearson	Partially Supporting	FC	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	3	8 miles
10	Atkinson	Fishing						
Satilla River	Satilla Cr. to Reedy Cr. near Douglas	Not Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	12 miles
10	Coffee	Fishing						
Satilla River	U.S. Highway 84/Ga. Hwy. 38 to 6 miles downstream Hwy 15/121	Partially Supporting	TWR	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution. Trophic-Weighted Residue of mercury in fish tissue exceeded 0.3 mg/kg.	3	3	23 miles
1	Ware/ Pierce/ Brantley	Fishing						
Seventeen Mile River	Twentynine Mile Cr. to Satilla River	Not Supporting	DO	NP	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	13 miles
55	Coffee/ Atkinson/ Ware	Fishing						
Seventeen Mile River	Twenty Mile Cr. N. of Douglas to Otter Cr. downstream Gen. Coffee St. Park	Not Supporting	DO, FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3	2	7 miles
55	Coffee	Fishing						
Sweetwater Creek	Black Water Creek to Big Satilla Cr. near Baxley	Not Supporting	DO, FC	UR	Impairment will be addressed by implementing a locally developed plan that includes the remedial actions necessary for problem resolution.	3,3	2	12 miles
10	Appling	Fishing						
Yellow Bluff Creek	Headwaters to approximately 1 mile d/s US Hwy 25.	partially supporting	DO, FC	NP	EPD will address nonpoint source through a watershed protection strategy. Phase II General NPDES Stormwater Permit issued to Glynn Co. 12/9/02.	X	2	2 miles
55	Glynn	Fishing						

Data Source Code/ Key for Abbreviations

State Agencies

1	=	DNR-EPD, Watershed Planning & Monitoring Program
2	=	DNR-EPD, Permitting Comp. & Enf. Program (Municipal)
3	=	DNR-EPD, Permitting Comp. & Enf. Program (Industrial)
55	=	DNR-EPD, Brunswick Coastal District
56	=	DNR-EPD, Hazardous Waste Mgmt. Branch
4	=	DNR, Wildlife Resources Division
5	=	DNR, Coastal Resources Division
6	=	State University of West Georgia
7	=	Gainesville College
8	=	Georgia Institute of Technology
31	=	South Carolina DHEC
33	=	Alabama DEM
35	=	Kennesaw State University
36	=	University of Georgia

Federal Agencies

9	=	U.S. Environmental Protection Agency
10	=	U.S. Geological Survey
11	=	U.S. Army Corps of Engineers
12	=	U.S. Forest Service
13	=	Tennessee Valley Authority

Local Agencies

14	=	Cobb County
15	=	Dekalb County
16	=	Douglas County Water & Sewer Authority
17	=	Fulton County
18	=	Gwinnett County
19	=	City of Clayton
20	=	City of Gainesville
21	=	City of LaGrange
22	=	Georgia Mountains R.D.C.
23	=	City of Conyers
34	=	City of College Park
37	=	Columbus Water Works
38	=	Columbus Unified Government
40	=	Town of Trion
41	=	Cherokee County
42	=	Clayton County Water Authority
43	=	City of Atlanta
44	=	City of Cartersville
50	=	Chatham County
51	=	City of Savannah
53	=	City of Augusta

Contracted Clean Lakes Studies

24	=	Lake Allatoona (Kennesaw State University)
25	=	Lake Blackshear (Lake Blackshear Watershed Association)
26	=	Lake Lanier (University of Georgia)
27	=	West Point (LaGrange College/ Auburn University)

Other

28	=	Georgia Power Company
29	=	Oglethorpe Power Company
30	=	South Carolina Electric & Gas Company
32	=	Jones Ecological Research Center
39	=	St. Johns River Water Mgmt. District
45	=	Georgia Ports Authority
46	=	Chattahoochee/Flint RDC
47	=	Upper Etowah Adopt-A-Stream
48	=	Middle Flint RDC
49	=	Central Savannah RDC
52	=	Heart of Georgia RDC
54	=	Southwire Company
57	=	Ellijay High School

Criterion Violated Codes

As	=	Arsenic
Bio	=	Biota Impacted
Cd	=	Cadmium
CN	=	Cyanide
Cr	=	Chromium
Cu	=	Copper
DO	=	Dissolved Oxygen
CFB	=	Commercial Fishing Ban
FC	=	Fecal Coliform Bacteria
FCG	=	Fish Consumption Guidance
Hg	=	Mercury
Ni	=	Nickel
Pb	=	Lead
SB	=	Shellfishing Ban
Se	=	Selenium
Temp	=	Temperature
Tox	=	Toxicity Indicated
TWR	=	Trophic-Weighted Residue Value of mercury in fish tissue exceeding the EPD human health standard of 0.3 mg/kg.
Zn	=	Zinc

Potential Cause Codes

CSO	=	Combined Sewer Overflow
I1	=	Industrial Facility
I2	=	Residual from Industrial Source
MA	=	Marina
M	=	Municipal Facility
NP	=	Nonpoint Sources/Unknown Sources
UR	=	Urban Runoff/Urban Effects
SB	=	Shellfish Ban

Reference 60

U. S. DEPARTMENT OF AGRICULTURE

BUREAU OF PLANT INDUSTRY, [illegible]

THE SUITABILITY OF THE WAYCROSS AREA, GEORGIA

C. F. [illegible]

[illegible] THAIER

[illegible] Field Investigations, Bureau of Soils, 1904

WASHINGTON

GOVERNMENT PRINTING OFFICE

1905

the second division of the Atlantic Coast Line, a large steam-pressure turpentine extracting plant, and several smaller enterprises. There is now (April, 1906) in process of construction the repair shops of all of the lines of the Atlantic Coast Line south of Savannah. It is said that these shops will be the largest in the South, costing about $500,000, and will employ from 1,500 to 2,000 men. Manor, Millwood, and Waresboro are towns of a few hundred population, located in some of the best farming sections of the county, and are important country trading points. Bickley, in the northwestern part of the area, the only post-office not on the railroad, is located in a good farming section. Fairfax and Beach are sawmill towns. At these and other points both in the interior and on the railroads are located numerous turpentine stills. The operation of these stills, the cutting of railroad cross-ties, firewood, etc., are extensively carried on.

Ample transportation facilities are afforded for all parts of the area. The Atlantic Coast Line has lines to Savannah and the markets of the North, to the coast at Brunswick and Jacksonville, to the interior of the State at Albany, and to Montgomery and the West and Florida west coast points by the same line as far as Dupont. On all of these lines fast and efficient schedules are maintained, especially over the main line to Savannah and the North. As all these lines belong to the same system there is an utter lack of competition. The northern part of the area is traversed by a branch of the Atlanta, Birmingham and Atlantic Railroad, which makes connections at Nichols for Brunswick, Atlanta, and Birmingham.

The county roads are far above the average for a "piney-woods" section. In the last few years the county officials have taken advantage of a State law allowing them to employ the county convicts for public-road improvements. Already many of the main roads have been straightened, cleared, and graded, and many of the larger streams bridged. This road-building work is still in progress, and it is likely that many of the roads mapped in this survey will be changed as the work progresses. These good roads enable the farmer to reach the market at Waycross easily and also to haul his produce to railroad points for shipment to the coast or to the northern cities.

CLIMATE.

The climate of Ware County is similar to that of southern South Carolina, southeastern Georgia, and northeastern Florida. The winters are mild and open, snow rarely falling, and the summers are long and hot. Farm work can be carried on during the whole of the year, and no shelter for stock is necessary.

The following table gives the normal monthly and annual temperature and precipitation as recorded by the Weather Bureau station

Normal monthly and annual temperature and precipitation.

Month.	Waycross.		Month.	Waycross.	
	Temperature.	Precipitation.		Temperature.	Precipitation.
	°F.	Inches.		°F.	Inches.
January	50.0	3.17	August	81.5	6.16
February	52.6	3.82	September	76.7	4.85
March	59.4	4.44	October	68.1	2.93
April	65.9	2.80	November	57.9	1.40
May	74.8	2.75	December	51.5	3.82
June	80.3	5.14	Year	66.7	46.73
July	82.2	5.45			

From this table it is readily seen that the rainfall is ample and is evenly distributed through the year, the greatest precipitation occurring during the summer months or growing season. The summer is practically eight months long, there being five months of excessively hot weather. July is the hottest month, with a normal temperature of 82.2° F., while May, June, August, and September are only a few degrees cooler. The extreme heat is tempered to a large extent by the movements of air currents, and oppressive nights are almost unknown. The winter months are not cold, although the humidity makes the cold more penetrating than the same temperature at higher altitudes. January, the coldest month, has a normal temperature of 50° F. The growing of winter truck crops, such as lettuce, radishes, onions, etc., can be carried on successfully during the winter.

The following table gives the dates of the first killing frosts in fall and the last in spring:

Dates of first and last killing frost.

Year.	Waycross.		Year.	Waycross.	
	Last in spring.	First in fall.		Last in spring.	First in fall.
1899	Mar. 9	.....	1898	Apr. 8	.....
1900	Mar. 4	Nov. 10	1903	Feb. 19	Nov. 19
1901	Mar. 17	Nov. 17	1904	Feb. 14	Nov. 15
1902	Mar. 20	Nov. 28	Average	Mar. 9	Nov. 18

From this table it is seen that killing frosts are likely to occur during four months of the year, from the middle of November to the middle of March. This period is very frequently shortened in the spring from ten to forty days, and only once in the last seven years has it been lengthened. The earliest frost occurring in the fall was on November 10, 1900, the latest in the spring was on April 8,

These soils are derived from the Columbian and the Lafayette formations. The thickness of the Columbian formation is variable, but it is rather thin and superficial as a whole, since the Lafayette is exposed in many cuts only a little beneath the surface. The unconsolidated material of these two formations taken together is of considerable thickness. A well at Waycross passed through 333 feet of unconsolidated Columbian, Lafayette, and older deposits, at which depth a cherty limestone rock, probably the Vicksburg-Jackson, was encountered. It is believed, however, that the depth of these formations is considerably less in the northern part of the area.

The Norfolk soils are the result of the establishment of better drainage and the consequent greater erosion. The two sandy loams of this series are the results of erosive agencies cutting through the superficial Columbian sands and the commingling of the materials of both the Columbian and Lafayette formations. The Norfolk soils are the trucking soils of the Atlantic coast and are widely distributed. The soils of the Portsmouth series are composed of the Columbian sands, with scarcely any modification, except what has resulted through the accumulation of organic matter. Drainage has not become well established, and the consequent accumulation of decaying vegetation has made the surface soil dark colored. These soils are of wide extent and usually but little cultivated. Swamp represents a still more imperfect condition of drainage and a consequent greater accumulation of organic matter in various stages of decomposition. Sandhill is quite likely wash material deposited at a time when the river was at a considerably higher base level than now, while Meadow is the present river bottom and overflow land. In addition to the fact that they are derived from two distinct though somewhat similar geological formations, the soils of the Waycross area are separated into two series, because of the difference in drainage conditions and of their different value for agriculture. Their separation into types just pointed out depends upon differences in texture. These two series of soils occur throughout the greater part of the Atlantic and Gulf coastal plains.

NORFOLK SAND.

The surface soil of the Norfolk sand as it occurs in this area is a gray or brown medium to coarse sand, with a depth of about 7 inches. It is almost always loose and incoherent, and a good tilth is easily secured. The subsoil from 7 to 36 inches is a loose incoherent yellow sand, usually coarser and lighter in texture than the soil. The color is sometimes brown, and whether brown or yellow is often mottled with red in its lower depths. The structure is generally more open than that of the soil—the latter showing the binding effect of the accumulation of small quantities of organic matter—and offers little resistance to the movement of the ground water. In both soil and

subsoil there is usually a noticeable quantity of fine quartz gravel and very coarse sand, which are left on the surface when the finer particles are washed away by heavy rains, and make the soil appear coarser than it really is. This coarse material is either pink or white in color and the particles are angular in shape. In many places where this soil borders on the sandy loam and also in some of the isolated areas the subsoil becomes slightly sticky at 36 inches, a sandy clay being found at no great depth below. In other places the whole section is a loose sand to a considerable depth. That body of Norfolk sand mapped in the southeastern part of the area differs from the typical section in that there is developed in the subsoil the brown crust characteristic of the Portsmouth fine sand.

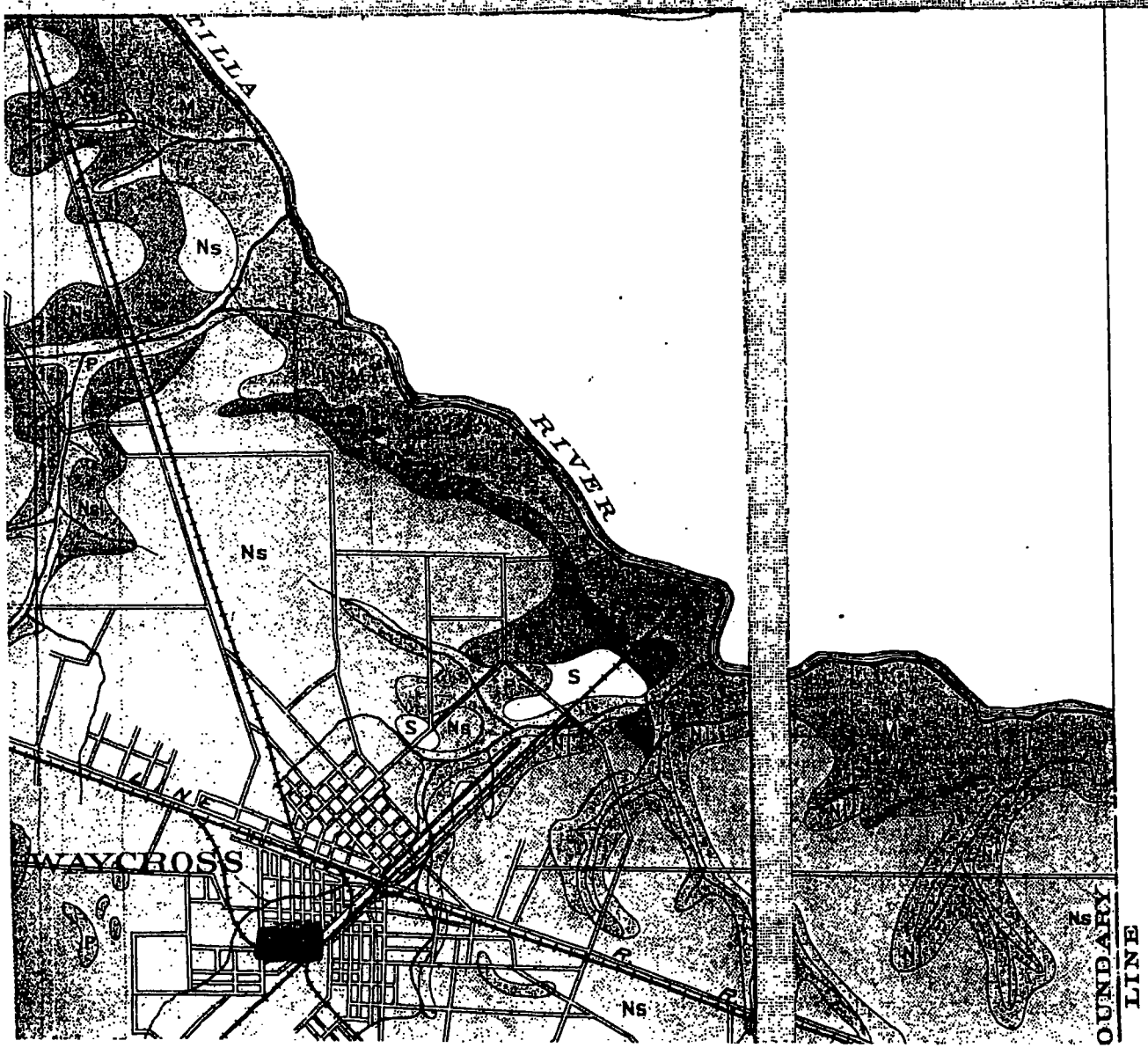
The largest areas of the Norfolk sand occur in irregular shaped bodies along the river and its tributaries, and are associated with the Norfolk sandy loam on the one side and the Portsmouth fine sand on the other. There are also several isolated bodies located southwest of Waresboro, along the old stage road. The isolated areas are almost level and slightly higher than the surrounding country. The topography of those areas lying along the stream courses is almost level to slightly rolling. The topographic position insures adequate drainage, and this with the open texture and structure of the soil and subsoil makes the Norfolk sand a warm, early soil, and one susceptible to drought. On the level areas of the type skillful management in the way of drainage would insure a better control of the moisture conditions, and render it possible to maintain a fair moisture content until late in the season.

The isolated areas owe their origin directly to the deposition of the coarser materials in local areas at the time of the laying down of the surface materials whose weathering gives rise to the soils of the area. The remainder of the type has been developed largely by erosion and the establishment of better drainage conditions.

The native vegetation originally consisted of long-leaf yellow pine with some oaks, with a thin sod of wire grass and an underbrush of palmetto and gall-berry bushes.

The Norfolk sand is peculiarly adapted to the growing of early truck crops rather than the general farm crops. Such crops as lettuce, radishes, peas, beans, early Irish potatoes, cantaloupes, watermelons, strawberries, etc., should do well and prove profitable with good care and judicious fertilization. In fact any crop which must be liberally fertilized and forced to an early maturity would do well on this soil.[a]

[a] Large samples of this soil from the neighborhoods of Waycross, Braganza, and Waltertown were the subject of a study by the wire-basket method to determine the local manurial requirements of this type of soil. Two of the samples were collected from fields that had been cleared for about sixty years, one of them, although at present idle, had been for many



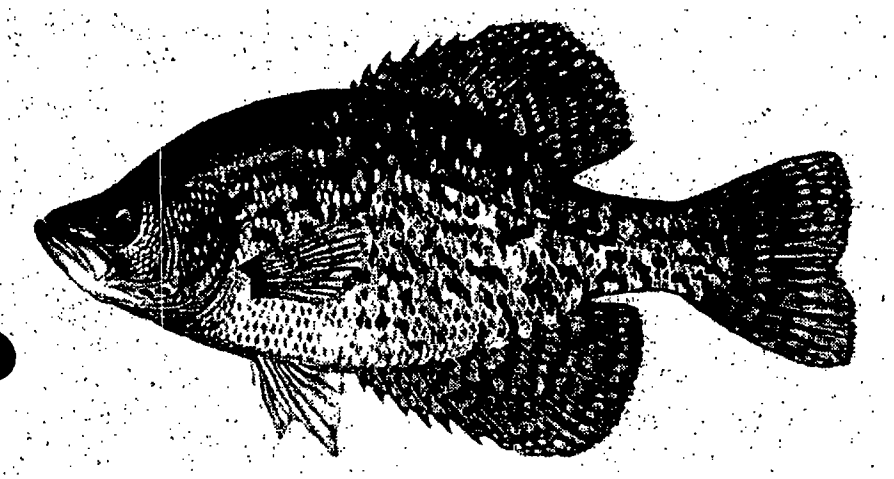
Sandhill

Meadow

Swamp

Reference 61

Guidelines For Eating Fish From Georgia Waters



2005 Update

Georgia Department of Natural Resources
2 Martin Luther King, Jr. Drive, S.E., Suite 1252
Atlanta, Georgia 30334-9000

Oostanaula River (Floyd/Gordon Counties) *Coosa River Basin*

Species	Site Tested	Recommendation	Chemical
Smallmouth Buffalo	Ga. Hwy 156, Calhoun	1 meal/week	PCBs, Mercury
Bluegill Sunfish	See Above	No Restrictions	
Spotted Bass	Ga. Hwy 140	1 meal/week	Mercury
Bluegill Sunfish	See Above	No Restrictions	
Largemouth Bass	See Above	1 meal/week	PCBs
Smallmouth Buffalo	See Above	1 meal/week	PCBs, Mercury
Channel Catfish	See Above	1 meal/week	PCBs

Patsiliga Creek (Upstream of Beaver Creek, Taylor Co.) *Flint River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	From McCants Millpond to Ga. Hwy 208	No Restrictions	
Spotted Sucker		No Restrictions	
Chain Pickerel	See Above	1 meal/week	Mercury

Patsiliga Creek (Downstream of Beaver Creek) *Flint River Basin*

Species	Site Tested	Recommendation	Chemical
Bass Spp. *	Taylor County	1 meal/month	Mercury
Sucker Spp. *	See Above	1 meal/week	Mercury
*Bass: Largemouth & Shoal; Suckers: Grayfin Redhorse, Spotted & Greater Jumprock			

Pipe Makers Canal (Near Savannah, Georgia) *Savannah River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	Chatham County	1 meal/week	Mercury

Ponder Branch (Walker County, Villanow) *Coosa River Basin*

Species	Site Tested	Recommendation	Chemical
Redeye Bass	Ga. Hwy 136	No Restrictions	

Proctor Creek, Near Acworth, Cobb County *Coosa River Basin*

Species	Site Tested	Recommendation	Chemical
Green Sunfish	Ga. Hwy 293, Old US 41	No Restrictions	

Satilla River (Near Waycross, Ware/Brantley Co.s) *Satilla River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	U.S. Hwy 84	1 meal/month	Mercury
Redbreast Sunfish	See Above	1 meal/week	Mercury
Channel Catfish	U.S. Hwy 301	1 meal/week	Mercury

Satilla River (Folkston, Burnt Fort, Charlton/Camden Co.s) *Satilla River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	Ga. Hwy. 252	1 meal/month	Mercury
Redbreast Sunfish	See Above	1 meal/month	Mercury

Savannah River (Below Clarks Hill Dam, Columbia County) *Savannah River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	Above New Savannah Bluff Lock & Dam	1 meal/week	Mercury
Spotted Sucker	See Above	1 meal/week	Mercury
Redear Sunfish	Above Stevens Cr. Dam	No Restrictions	
Redbreast Sunfish	Below Stevens Cr. Dam	No Restrictions	

Savannah River (Richmond/Burke Counties) *Savannah River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	Below New Savannah Bluff Lock & Dam	1 meal/week	Mercury
Sucker	See Above	No Restrictions	
Specific consumption guidelines have not been issued for the radionuclides cesium-137 & strontium-90, in the Savannah River (Burke/Screven Co.s), adjacent to the Savannah River Site (SRS). Guidance on mercury were evaluated and deemed to be protective.			

Savannah River (Screven County) *Savannah River Basin*

Species	Site Tested	Recommendation	Chemical
Largemouth Bass	U.S. Hwy 301	1 meal/week	Mercury
Redear Sunfish	See Above	No Restrictions	
Channel Catfish	See Above	No Restrictions	
Specific consumption guidelines have not been issued for the radionuclides cesium-137 & strontium-90, in the Savannah River (Burke/Screven Co.s), adjacent to the Savannah River Site (SRS). Guidance on mercury were evaluated and deemed to be protective.			

Reference 62

RECORD OF PERSONAL CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 16, 2006
TIME: 8:15 am

FILE: Seven Out LLC

SPOKE WITH: Mr. Chad Sexton
TITLE: Fisheries Technician, Georgia DNR Game and Fish, Fisheries Management
ADDRESS:
CITY: Waycross
STATE/ZIP: GA

TELEPHONE NUMBER:
912/285-6094 (office)

SUBJECT: Knowledge of fishing and fish consumption along City of Waycross Drainage Canal and Satilla River

SUMMARY OF CALL:

Stopped by the DNR Fisheries Management Office off of Plant Avenue (GA 82) on the Northeast side of town to question the Fisheries personnel on local fishing habits. The Drainage Canal almost runs by the DNR Fisheries office. Mr. Sexton stated with support from other office personnel that they had never seen "bucket sitters" along the canal. "Bucket sitters" is a term referring to fishermen who sit on the bucket and throw all of the fish they catch into the bucket to take home and eat. "Bucket sitters" have been observed along some of the tributaries of the Satilla River, as well as the Satilla River. Mr. Sexton went on to say that children do fish in the canal and whether or not they take their catch home for their parents to clean and eat was not known. During the recon of June 15-16, no children were observed fishing in the canal, although the canal does travel through several parks along its path to the Satilla River. At several locations along the canal, bream and an occasional bass were observed.

ACTION REQUIRED:

None

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

None at this time.
SIGNATURE:

Reference 63

63

RECORD OF PERSONAL CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 15, 2006
TIME: 7:15 pm

FILE: Seven Out LLC

SPOKE WITH: Mr. Inman
TITLE: Resident
ADDRESS: 320 Pineview Drive
CITY: Waycross
STATE/ZIP: GA

TELEPHONE NUMBER:

SUBJECT: Knowledge of fishing and fish consumption along City of Waycross Drainage Canal behind his residence

SUMMARY OF CALL:

After eating at Capt. Joe's Restaurant, I walked behind the business to look at the Waycross Drainage Canal which ran behind the restaurant. I observed several bream and a bass swimming through the shallow water of the canal. A dog on the other side of the canal started barking in my direction. An elderly gentleman headed in the direction of the canal to see what the dog was barking at. I conversed with him from one bank to the other about the fishing in the canal. He stated that nobody ever ate fish out of the canal because they were no good because of the contamination in the canal from all the runoff in Waycross. He stated that his grandchildren would fish in the canal, but they never eat any of the fish. He did state that the condition of the canal had improved a great deal in the last ten years or so.

ACTION REQUIRED:

None

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

None at this time.
SIGNATURE:

Reference 64

RECORD OF TELEPHONIC CONVERSATION
HAZARDOUS WASTE MANAGEMENT PROGRAM

DATE: June 15, 2005
TIME: 9:30 am

FILE: Seven Out LLC

SPOKE WITH: Ms. Shirley Carter
TITLE: Employee, Winges Bait and Tackle.
ADDRESS: 427 Memorial Drive
CITY: Waycross
STATE/ZIP: GA 31501

TELEPHONE NUMBER:
912/283-9400 (Store)

SUBJECT: Fisheries.

SUMMARY OF CALL:
Called Winges Bait and Tackle Store to identify which streams in the area are fished. The store is approximately 1600 feet from the City Drainage Canal. Ms. Shirley Carter stated that children sometimes fish in the City Drainage Canal, however most fishing is done in the Satilla River. This information is the same as information given by another employee of the store during the Site Investigation.

ACTION REQUIRED:

None

SIGNATURE:

FOLLOW-UP RESPONSES/ADDITIONAL COMMENTS:

SIGNATURE:

Reference 65

Protected Plants of Georgia

AN INFORMATION MANUAL ON PLANTS DESIGNATED BY THE STATE OF GEORGIA AS ENDANGERED, THREATENED, RARE, OR UNUSUAL

Thomas S. Patrick
James R. Allison
Gregory A. Krakow

1995

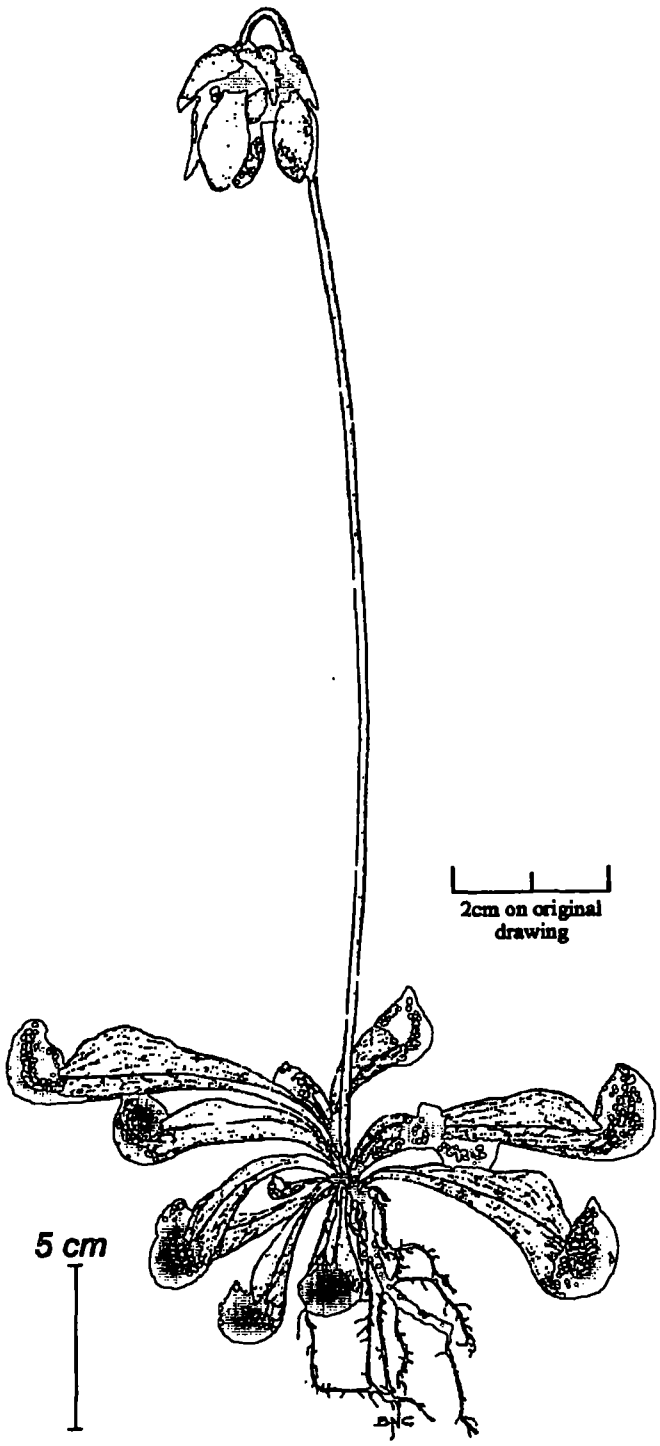
Georgia Department of Natural Resources
Lonice C. Barrett, Commissioner
Wildlife Resources Division
David Waller, Director
Georgia Natural Heritage Program
John R. Bozeman, Program Manager

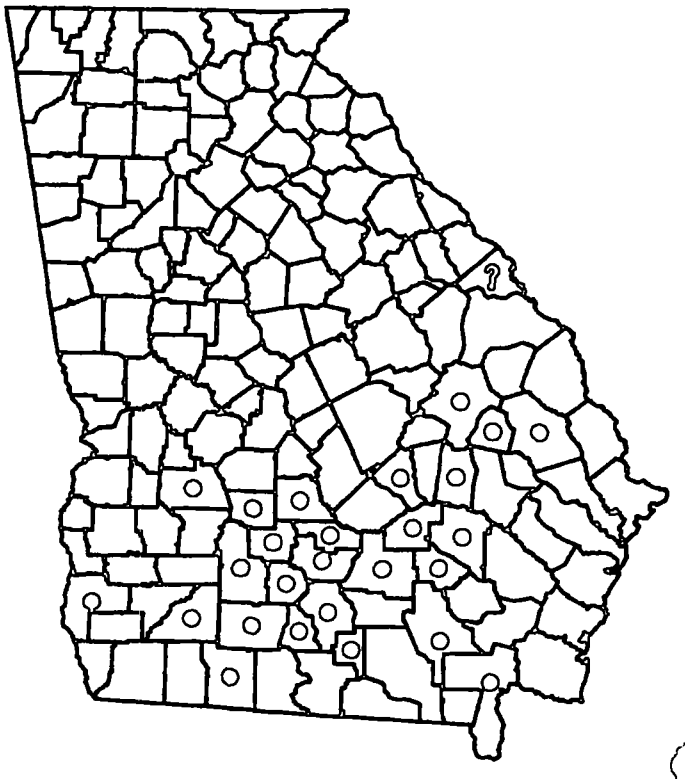
Partial funding for this publication was provided through the Forest Stewardship Program under Title XII, Subtitle A, Section 1215 of the Food, Agriculture, Conservation and Trade Act of 1990, in cooperation with the Georgia Forestry Commission.

Additional funding was made available through Section 6 of the Endangered Species Act of 1973, as part of a grant in federal aid from the U.S. Fish and Wildlife Service.

Parrot Pitcherplant

Pitcherplant Family, SARRACENIACEAE





LEGAL STATUS:
State: THREATENED
Federal: None

SYNONYMY: None in current usage.

RANGE: Coastal Plain of northeastern Florida and southern Georgia, west to southeastern Louisiana. Recorded from 27 counties in Georgia, including an ambiguous report from the Augusta area (see Remarks), perhaps from Richmond County (see map).

ILLUSTRATION: Plant habit, with reclining leaves, 0.4x. Source: McDaniel (1971), drawn by Barbara Culbertson and used with permission.

DESCRIPTION: Perennial herb. This plant is one of the smaller members of this genus, often overlooked. The hollow leaves (pitchers) recline on the ground, in a basal rosette. They are 9-28 cm long, 1.0-1.3 cm wide at the orifice, green at the base, red-veined toward the top, broadest and prominently winged in the upper half. The hood is rounded into a hollow chamber; both it and the adjoining leaf area have translucent "windows." The flowers appear with the leaves, and are nodding and solitary on long (to about 35 cm), leafless stalks that rise well above the leaves. The five sepals are green and maroon, 1.5-2.5 cm long, and persist at base of fruit. The five petals are maroon, 2.0-4.5 cm in diameter, broadest

near the apex, and quickly fall off. A distinctive feature of the pitcherplant flower is the umbrella-shaped style (style-disk), which is 1.8-2.6 cm in diameter in this species. The fruit is a globose capsule about 1 cm in diameter, with numerous seeds. **Flowering period**: March to May; **fruiting period**: June to July, or later. **Best search time**: during flowering, since leaves are usually hidden in vegetation.

HABITAT: Found in acidic soils of open bogs, wet savannas, and low areas in pine flatwoods.

SPECIAL IDENTIFICATION FEATURES: The mature leaves or pitchers are reclined, prominently winged, with translucent "windows" near the apex, and with hoods rounded. The petal color is maroon.

MANAGEMENT RECOMMENDATIONS: Avoid drainage of site. Control encroachment of woody vegetation through prescribed burning. Hand thinning in the vicinity of the plants, if done carefully, may be beneficial to this light-loving plant. Of horticultural interest: protect from removal by irresponsible persons.

REMARKS: André Michaux described this species in 1803. Typical of the collections of that era, his specimen label has a general statement of the known range, "from the city of Augusta, Georgia, to Florida," rather than the precise collection site. Both the scientific and common names of this species refer to a fancied resemblance of the pitcher, when viewed in profile, to a parrot's head. Unlike those of the hooded pitcherplant (*Sarracenia minor*), the pitchers of this species are decorated with "windows" over the whole of the (head-like) hood. In view of the supposed function of the windows in the capture of prey, as described for *S. minor*, this may be an adaptation related to the near-horizontal position that the pitchers assume in this species. Unlike most of its kin, *S. psittacina* is often found in areas that are subject to periodic flooding, and its pitchers are specially modified for capture of aquatic(!) prey. *Sarracenia psittacina* has sustained significant habitat loss due to fire suppression or draining of its habitat. Like the other pitcherplants, it is vulnerable to excessive digging by nurserymen and gardeners.

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Reference 66

Locations of Special Concern Animals, Plants and Natural Communities by Quarter Quad Names Starting with (W)

"US" indicates species with federal status (Protected, Candidate or Partial Status). Species that are federally protected in Georgia are also state protected.
"GA" indicates Georgia protected species.

Find details for the species below on our special concern lists for animals and plants. Date of information - 10/22/2004

WADLEY, GA (SE)

GA · *Sarracenia flava* Yellow Flytrap

WALESKA, GA (NE)

· *Etheostoma rupestre* Rock Darter
US · *Etheostoma scotti* Cherokee Darter
· *Macrhybopsis sp. 1*
· *Phenacobius catostomus* Riffle Minnow

WALESKA, GA (NW)

· *Etheostoma rupestre* Rock Darter
US · *Etheostoma scotti* Cherokee Darter
· *Lygodium palmatum* Climbing Fern
GA · *Lysimachia fraseri* Fraser's Loosestrife
· *Macrhybopsis sp. 1*
· *Phenacobius catostomus* Riffle Minnow

WALESKA, GA (SE)

· *Etheostoma rupestre* Rock Darter
US · *Etheostoma scotti* Cherokee Darter
· *Ichthyomyzon gagei* Southern Brook Lamprey
· *Macrhybopsis sp. 1*
· *Phenacobius catostomus* Riffle Minnow
GA · *Xerophyllum asphodeloides* Eastern Turkeybeard

WALESKA, GA (SW)

· *Etheostoma coosae* Coosa Darter
· *Etheostoma rupestre* Rock Darter
US · *Etheostoma scotti* Cherokee Darter
· *Ichthyomyzon gagei* Southern Brook Lamprey

GA · *Clemmys guttata* Spotted Turtle
US · *Gopherus polyphemus* Gopher Tortoise
· *Quercus chapmanii* Chapman Oak
· *Sideroxylon sp. 1* Ohoopee Bumelia

[redacted]

GA · *Clemmys guttata* Spotted Turtle
US · *Gopherus polyphemus* Gopher Tortoise
· *Quercus chapmanii* Chapman Oak
GA · *Sarracenia psittacina* Parrot Pitcherplant
· *Scutellaria arenicola* Sandhill Skullcap
· *Sideroxylon sp. 1* Ohoopee Bumelia

WAYCROSS SE, GA (NE)

US · *Ambystoma cingulatum* Flatwoods Salamander
GA · *Epidendrum conopseum* Green-fly Orchid
GA · *Neofiber alleni* Round-tailed Muskrat
US · *Picoides borealis* Red-cockaded Woodpecker
GA · *Sarracenia minor* Hooded Pitcherplant
· *Scirpus etuberculatus* Canby's Club-rush

WAYCROSS SE, GA (NW)

GA · *Neofiber alleni* Round-tailed Muskrat
US · *Picoides borealis* Red-cockaded Woodpecker

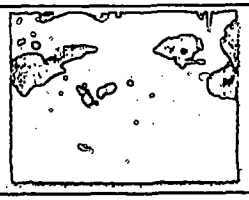
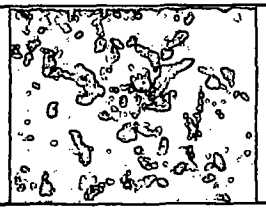
WAYCROSS SE, GA (SE)

US · *Ambystoma cingulatum* Flatwoods Salamander
GA · *Epidendrum conopseum* Green-fly Orchid
GA · *Neofiber alleni* Round-tailed Muskrat
· *Nerodia floridana* Florida Green Water Snake
US · *Picoides borealis* Red-cockaded Woodpecker
GA · *Sarracenia minor* Hooded Pitcherplant
· *Scirpus etuberculatus* Canby's Club-rush

WAYCROSS SE, GA (SW)

GA · *Neofiber alleni* Round-tailed Muskrat

Endangered, Threatened and Special Concern Plants and Animals of the NW Quadrant of the Waycross East 7.5' Topographical Map

Scientific Name	Common Name	Protective Status	Habitat in Georgia	Photo
Clemmys guttata	Spotted Turtle	GA Unusual Species	Heavily vegetated swamps, marshes, bogs, and small ponds, nest and possibly hibernate in surrounding uplands	
Gopherus polyphemus	Gopher Tortoise	US Partial Status/listed as threatened Georgia Threatened	Sandhills, dry hammocks; longleaf pine-turkey oak woods; old fields	
Quercus chapmanii	Chapman Oak	GA Special Concern	Sandridges, dunes, oak-pine scrub	
Sarracenia psittacina	Parrot Pitcherplant	GA Threatened	Wet savannas, pitcherplant bogs	
Scutellaria arenicola	Sandhill Skullcap	GA Special Concern	Sandy scrub	

Scientific Name	Common Name	Protective Status	Habitat in Georgia	Photo
Sideroxylon sp. 1	Ohoopee Burnelia	GA Special Concern	Dry longleaf pine woods with oak understory; often hidden in wiregrass	

References