



Gannett Fleming
ENGINEERS AND PLANNERS

GANNETT FLEMING, INC.
Suite 200
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T 12

October 12, 1990

Mrs. Paula Retzler
Enforcement Project Manager
U.S. Environmental Protection Agency
Region III
841 Chestnut Street
Philadelphia, PA 19107

Reference: ARCS III Program
EPA Contract Number 68-W8-0037

Subject: Tybouts Corner Landfill Site (RD/RA Oversight)
EPA Work Assignment Number 37-03-3N09
Field Trip Report of October 1-3, 1990

Dear Mrs. Retzler:

Enclosed are copies of the Field Trip Report of October 1-3, 1990 and the associated chain-of-custody forms. Please call me if you have any questions about them.

Very truly yours,

GANNETT FLEMING, INC.

Chen-yu Yen, Ph.D.
Project Manager

CYY:ijk

Enclosure

cc: Mr. James McKenzie (EPA Region III)
Mr. Robert Stecik (NUS)
Mr. Leonard Johnson (NUS)
Dr. David Sheridan (GF)

GF: 27163.001/0208

Our 75th Year

AR001208



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TYBOOTS CORNER LANDFILL
TRIP REPORT
OCTOBER 1-5, 1990
JOB NO. 9902

TO: DISTRIBUTION
FROM: WALTER O. KOEHLER^{WOK} (WOK), ROCCO J. GIAMPAOLO^{RJG} (RJG)
DATE: OCTOBER 10, 1990

MONDAY, OCTOBER 1, 1990

AM: CLEAR, BREEZY (FROM W), COOL
PM: CLEAR, CALM, MODERATE

- WOK arrived at Texaco Delaware City Plant (0706 hours) located at Junction of Route 72 and Route 9.
- Duffield Associates (DA) arrived at Texaco Delaware City Plant. Crew consisted of two people: Joe McAndrew (JM, geologist) and Clair Dunlap (CD, driller's helper from Walton Corp.). JM was the field leader. JM detailed the work to be accomplished for the day to consist of the following:
 - Extract 5-foot PVC sections from grid locations 416, 421, 423, 444, and 431. Prepare and label soil sections for shipment and analysis. A copy of the map showing the grid locations is attached.
 - Insert 10-foot PVC sections unto grid locations 416, 421, 423, 444, and 431.
 - Extract 10-foot PVC sections from grid locations 416, 421, 423, 444, and 431.
- Between 0800 and 1345 WOK witnessed and documented the procedure for the removal of PVC 5-foot sections that were inserted on 9/28/90 into grid locations 416, 421, 423, 444, and 431. WOK then witnessed and recorded the insertion of five 10 foot PVC sections into grid locations 416, 421, 423, 444, and 431. WOK documented the extraction of two 10-foot PVC sections at grids 416 and 431. Throughout the day, a Microtip was used to monitor organic vapors. No organic vapors were detected.

Our 75th Year

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TYBOUTS CORNER LANDFILL
TRIP REPORT
OCTOBER 1-5, 1990
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- WOK left site at 1430 hours. DA remained on site to extract 10-foot PVC sections from grid locations 421, 423, and 444.

TUESDAY, OCTOBER 2, 1990

AM: CLEAR, COOL, WINDY
PM: CLEAR, WARM, WINDY

- RJG and Chen Yen (CY) of GF met JM and CD of DA at the Star Enterprise (Texaco) main office and proceeded to the dredge spoil area.
- JM gave GF a copy of the sample analyses schedule (attached) which indicated the anticipated depths of samples to be analyzed for metals and EP toxicity.
- JM explained that the sampling locations were picked at random to cover the entire dredge spoil area. GF requested that sample split locations be spread to cover a representative portion of the spoil area and that they include the four sample depth intervals that DA has designated. Soil samples were retrieved by driving 2-inch Schedule 40 PVC pipes into the soil to obtain samples up to 10 feet below the surface. A 5-foot pipe section was driven to obtain a soil sample from 0 to 5 feet. Then a 10-foot pipe section was set in the same hole and driven to obtain a soil sample from 5 to 10 feet. The sample pipe sections were driven by a 10-pound sledge hammer and a 6-inch x 6-inch pressure treated wood beam. The beam was used to protect the pipe from direct contact with the hammer. Some 5-foot sections were driven solely by the hammer due to easier penetration. The portion of pipe directly above the top of the recovered sample was removed and each end stuffed with a paper towel and duct taped. Each sample was marked for locations, date, and time.
- JM explained that DA needed to obtain a duplicate soil sample for the 20-day period. GF split samples with DA from grid numbers 425 and 345. Sample numbers are SO-TX425-9, SO-TX425-A (duplicate), SO-TX425-D (rinsate blank), and SO-TX345-4.

See chain of custodies 3-5835, 3-5836, and 3-5837 for details.
- DA also resampled grid number 416 for the 0-5 foot depth to obtain better recovery.

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TYBOUTS CORNER LANDFILL
TRIP REPORT
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WEDNESDAY, OCTOBER 3, 1990

AM: CLEAR, COOL, WINDY
PM: CLEAR, WARM, WINDY

- RJG and Kathy Wehnes (KW) met JM and CD at the Star Enterprise gate at 0745 hours. JM detailed the layout for the day so GF would obtain split samples from the four depth intervals over a representative portion of the spoil area. GF split sample with DA from grid numbers 201, 171, 246, and 127. Sample numbers are SO-TX201-4, SO-TX171-2, SO-TX246-4, SO-TX127-7, and SO-TX127-7-A (duplicate), respectively. See chain of custody 3-5835, 3-5836, and 3-5837 for details.
- DA has been sampling on a 3 day/week schedule (Monday through Wednesday) and will return to sample on 10/8/90.

NOTES:

- 1) Decon procedures for PVC piping consist of wash with soapy water, rinse with DI water, rinse with methanol, and rinse with DI water.

Chemical analysis for the soils consist of metals. The decon procedure seems to be for organics. Perhaps it would be better to rinse with nitric acid instead of methanol.
- 2) DA's crew was using a 6x6 pressure treated block to assist in inserting the 5 and 10 foot PVC sections. Since this wood probably contains arsenic compounds it would be advisable to select soils away from the ends to perform sample analyses on.
- 3) It was observed on October 1st that the plastic on the 5' sections (left over weekend) had plastic wrapping over the exposed end; however the plastic was torn and the interior surfaces exposed. The ends should have been covered to eliminate the possibility of inadvertent contamination from outside sources.
- 4) These points were communicated to JM of DA. Modification in field and laboratory practices were promised for points (2) and (3). DA would not change the decon procedure from the approved plan. GF believes that the existing decon procedure, although less rigorous, is adequate for new PVC pipes.

AR001211

DUFFIELD ASSOCIATES, INC.

PROJECT Tyrolts - Texaco Damaged Spalls W.O. 322-MN REV. 08
 SUBJECT Quality Analysis Same as Interval SHEET OF
 DRAWN BY AKS DATE 09/26/90 CHECKED BY DATE

Cond Area	Sample Depth Interval			
	0'-2.5'	2.5'-4.5'	4.5'-7'	7'-9.5'
15		X		
21	X			
42		X		
53				X
77				X
97		X		
127			X	
138	X			
171	X			
182	X			
201		X		
207				X
215			X	
243				X
246		X		
269	X			
275	X			
289		X		
316				X
316-DUP				
319	X			
322			X	
345		X		
349			X	
402	X			
402-DUP				
416		X		
421				X
423			X	
425				X
425-DUP				
431			X	

AR001212

CHAIN OF CUSTODY RECORD

PROJ. NO. PROJECT NAME
37-03-3109.0 TY

SAMPLER #: (Signature)
Rocco N. Diengado

NO. OF CONTAINERS

REMARKS
TAG #

STA. NO.	DATE	TIME	COMP	LAB	STATION LOCATION	NO. OF CONTAINERS	REMARKS
TX 435-A	10/27/80	1030		X	SO-TX425-9-A	1	5713C-001 3-100328
TX 107	10/19/80	1340		X	SO-TX127-7	1	5713C-002 3-100324
TX 345	10/27/80	1440		X	SO-TX345-4	1	5713C-003 3-100330
TX 425	10/27/80	1030		X	SO-TX425-9	1	5713C-004 3-100331
TX 346	10/27/80	1230		X	SO-TX246-4	1	5713C-005 3-100332
TX 171	10/19/80	1800		X	SO-TX171-2	1	5713C-006 3-100333
TX 301	10/19/80	0900		X	SO-TX201-4	1	5713C-007 3-100334
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	
Rocco N. Diengado	10/14/80 1700	FED EX Att# 6344021600					
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Received by: (Signature)	
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks	
						Ship to - SILVER - Lee Haynes AB # 6344021600	

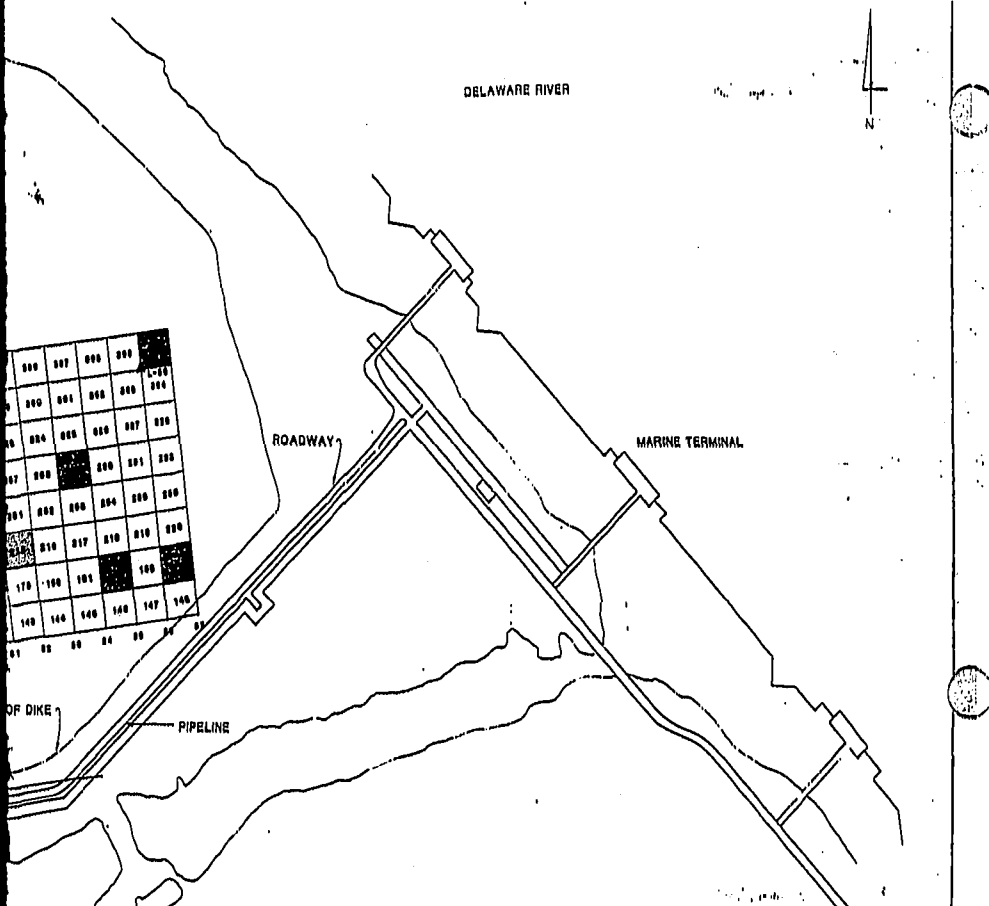
Distribution: Original Accompanies Shipment; Copy to Coordinator; Field File

3-5836

CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		NO. OF CONTAINERS		REMARKS
37-03-3N094	TY					
SAMPLERS: (Signature)		STATION LOCATION		SAS#		TAG#
Rosa J. Diemprato		GRAB	COM			
STA. NO.	DATE	TIME				
TX 425	10/21/90	1230	X	50-TX425-9-A	1	5713C-011 3-100322
TX 127	10/21/90	1340	X	50-TX127-7	1	5713C-012 3-100323
TX 345	10/21/90	1440	X	50-TX345-4	1	5713C-013 3-100324
TX 435	10/21/90	1030	X	50-TX425-9	1	5713C-014 3-100325
TX 346	10/21/90	1220	X	50-TX246-4	1	5713C-015 3-100326
TX 171	10/23/90	1000	X	50-TX171-2	1	5713C-016 3-100327
Relinquished by: (Signature) Date / Time Received by: (Signature) Date / Time						
Rosa J. Diemprato		10/4/90	1700	FED EX AB#6344021611		
Relinquished by: (Signature)		Date / Time		Relinquished by: (Signature)		Date / Time
Rosa J. Diemprato						
Relinquished by: (Signature) Date / Time Received for Laboratory by: (Signature) Date / Time						
Rosa J. Diemprato						Remarks: Shipto - CENREF - Kristina Klinz AB# 6344021611

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files



**TYBOUTS LANDFILL
 BORROW SOURCE
 TEXACO DREDGE SPOILS (DMSA#3)
 PREQUALIFICATION
 LOCATION SKETCH
 PHASE I
 FIELD EXPLORATION**

NO.	REVISION	DRN BY	DATE

DUFFIELD ASSOCIATES, INC.
 CONSULTING GEOTECHNICAL ENGINEERS
 WILMINGTON, DELAWARE

APPROVED BY	
DESIGNED BY	DATE 08-23-67
DRAWN BY SMS	SCALE 1"=200'
CHECKED BY JFC/JFD	W.O. NO. 223-HF
DRAWING NO.	SHEET NO. 1' OF 1

AR001216