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MANAGERS DESIGNERS/CONSULTANTS

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM
EPA CONTRACT 68-W5-0019

210703

13 May 1997

Mr. Nick Magriples
U.S. Environmental Protection Agency
Removal Action Branch
2890 Woodbridge Avenue
Edison, NJ 08837

EPA CONTRACT NO: 68-W5-0019
former TDD NO: 02-96-04-0003C (active: 02-97-02-0015B)
DOCUMENT CONTROL NO: NA
SUBJECT: Cornell-Dubilier Electronics, Air Monitoring Results 16 July 1996

Dear Mr. Magriples:

Enclosed please find the field notes and test pit logs for the 16 July 1996 test pit excavation at the Cornell-Dubilier Electronics Site located in South Plainfield, Middlesex County, New Jersey. Air monitoring can be found in column 4 of the test pit logs and in the field notes under the individual locations.

If you have any questions, do not hesitate to call me at (908) 225-6116.

Very truly yours,

ROY F. WESTON, INC.

Christoph Stannik
Former Project Manager
(TDD NO: 02-96-04-0003C)

Enclosure
cc: TDD File

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier Location: Hamilton Industrial Pk. City/State: S. Plainfield, NJ	TDD/PCS: 02-9604-0003 Pit # / Location: Test Pit #1 / 51,551 Surface Elevation: grade	Page 1 of 1 Date Started: 7/16/96 Date Completed: 7/16/96
Excavating Contractor: Goldstar Excavating Equipment: Backhoe Operator: Mike Davidson	Sampling Method: Grab with stainless steel bowl & trowel. Soil Classifier: J. Leahy Soil Charts Used:	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
.5FT	N/A	Rocky layer				
2FT	TP1-A (ms/msd)	reddish brown soil layer	PID- 1unit Above BKg		IP-3	
4.5FT	TP1-B	Rocky debris & ground water encountered	FID- 4units Above bKg.		IP-6	mini ram- .01mg/m3 micro meter- 5mr/hr above bKg.

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier	TDD/PCS: 02-9604-0003	Page 1 of 1
Location: Hamilton Industrial Pk.	Pit # / Location: Test Pit #2 | S2,SS2	Date Started: 7/16/96
City/State: S. Plainfield, NJ	Surface Elevation: grade	Date Completed: 7/16/96
Excavating Contractor: Goldstar	Sampling Method: Grab sample from bucket with stainless steel trowel	
Excavating Equipment: Backhoe	Soil Classifier: J. Leahy	
Operator: Mike Davidson	Soil Charts Used:	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
2FT.	TP2A	Brown soil with rocky layer at the base of 2FT mark.	PID- 0 units Above BKg.		IP-9	Minirad. 0 mr/hr. to .01 mr/hr. micro meter 5mr/hr above bkg.
4FT	TP2-B	light red sandy soil	FID - 0-2 units Above BKg.		IP-11	
8FT	N/A	No change in soil from 4FT, some groundwater infiltration			IP-12	

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier Location: Hamilton Industrial Pk. City/State: S. Plainfield, NJ	TDD/PCS: 02-9604-0003 Pit # / Location: Test Pit #3 / inside Trucking school ~70 FT SE of N corner post fence + 45 FT SW. Surface Elevation: grade	Page 1 of 1 Date Started: 7/16/96 Date Completed: 7/16/96
Excavating Contractor: Goldstar Excavating Equipment: Backhoe Operator: Mike Davidson	Sampling Method: Grab sample from bucket center w/ stainless steel trowel Soil Classifier: J. Leahy Soil Charts Used:	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
1FT	N/A	Brick layer (red & white)	PID - 0 units above BKg			Micro meter BKg (5 mr/hr) mini ram .00 mg/m3
2FT	N/A	Black layer	FID - 0 units above BKg			
4FT	TP3-A	Black layer - soil			2p-7	
9FT	TP3-B	Black soil layer.			2p-9	

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier Location: Hamilton Industrial Pk. City/State: S. Plainfield, NJ	TDD/PCS: 02-9604-0003 Pit # / Location: TEST Pit #4/280FT SE from N corner Post fence / inside Driving School 4-92 FT SE Surface Elevation: Grade	Page 1 of 1 Date Started: 7/12/96 Date Completed: 7/12/96
Excavating Contractor: Goldstar Excavating Equipment: Backhoe Operator: Mike Davidson	Sampling Method: Taken from top of pile at approx 6 ft. with stainless steel trowel Soil Classifier: Jhecky Soil Charts Used:	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
1 ft	N/A	STONE	FID - 0 units Above BKg		~~2p~~ JL	MICR meter - 0 mr/hr above background.
6 ft	JL TP6A 4	large pieces of wood, debris, drum carcuses.	PID - 0 units Above BKg		2p10 2p-11 2p-12	
		*No other sample collected at this location due to the large volume of debris.				

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier	TDD/PCS: 02-9604-0003	Page 1 of 1
Location: Hamilton Industrial Pk.	Pit # / Location: TEST Pit #5 / 56,556.	Date Started: 7/16/96
City/State: S. Plainfield, NJ	Surface Elevation: 5ft above grade	Date Completed: 7/16/96
Excavating Contractor: GOLDSTAR	Sampling Method: Grab from center of the bucket with stainless steel trowel	
Excavating Equipment: Backhoe	Soil Classifier: J. Leahy	
Operator: Mike Davidson	Soil Charts Used:	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
1 FT	Nd	mica-like chips	PID - 0 units Above BKg			micro R-meter 3 mr/hr above bKg.
4 FT	TP5A	Mica chips with debris (rocks, wood) Soil brown AT base of 4FT. white layer (saw-dust like), some electronic devises	FID - 0 units Above BKg.		2P-2 2P-3	
9 FT	TP5B	white saw-dust like layer			2P-4 2P-5	

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION II

SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM CONTRACT

EXCAVATION AND TEST PIT LOG

Site Name: Cornell-Dubilier	TDD/FCS: 02-9604-0003	Page 1 of 1
Location: Hamilton Industrial Pk.	Pit # / Location: Test Pit #16/20ft NE from S11, SS11	Date Started: 7/16/96
City/State: S. Plainfield, NJ	Surface Elevation: grade	Date Completed: 7/16/96
Excavating Contractor: Goldstar	Sampling Method: Grab sample from bucket center with stainless steel trowel	
Excavating Equipment: Backhoe	Soil Classifier: J. Leahy	
Operator: Mike Davidson	Soil Charts Used: ○	

Depth (Ft.)	Sample #	Profile Description	PID/ FID (PPM)	USCS Symbols	Photo #	Comments
.5ft	N/A	rocky layer	PID - 0 units			Micro R meter 5mr/hr above BKg.
3.5 ft	TP6-A Dup TP8A	Black band soil layer aprox. .75 feet wide			IP-13 IP-14	
4 ft	Na	light red soil layer w/ large rocks & rubble.				
8.5 ft	TP6B	light red soil layer - non-disturbed			IP-15 IP-16	

Tuesday July 16, 1996

0720 START's Leahy & STANNIK on-site, OSC present. William Lutri-French, Doug Ogden & Mike Davidson of Goldstar Environmental present. to perform tests pits.

0730 START's Wagner & Kitha on-site. START's & Goldstar conducting site setup, & instrument calibration.

Weather: Sunny 80°, with wind out of the north, northwest at 0-10 mph.

Air monitoring instruments background reading:

Microenuter: 5 mr/hr.

OVA - 0 units

HNu - 0 units

Miniram - .10 mg/m³

0830 START STANNIK Conducts H&S meeting topics discussed, heavy equipment, slip, trip, falls, heat stress, & hand signals. All present have read & signed the H&S Plan

0910 Goldstar initiates clearing area to access Pit location #1 & 2.

PI - View of Goldstar clearing brush to access Pit Locations 1 & 2.

T = 88° F,

Note: All initial decon of the stainless steel augers, trowels & bowls was performed on July 15, 1996 At the ERA facility in accordance to the following procedures:

1. Physical removal of gross contamination
2. Alconox wash
3. Potable rinse
4. 10% Nitric Acid
5. Potable rinse
6. Methanol, hexane

7. Final Rinse with DI water
8. Air Dry & wrapped in aluminum foil (Shiny side out).

0940 Goldstar initiates the excavation of Test Pit #1. Test Pit #1 is located at S1/SS1.
- 1st 6 inches of the pit rocks
- 2nd foot and a half is red soil.
- rest .5 ft rocky debris.

0950 Sample TP1A collected at 2 feet (red soil)
IP2 - View of test pit #1 side wall at 3 feet.
IP3 - View of S. Kitha collecting TP1-A
TP1-A is a MS/MSD sample location. Sample was collected with stainless steel bowl & trowel (deconned) from the center of the excavation bucket. OVA-4units, HNu1unit

0955 Goldstar continues excavating. Ground water was encountered at 4.5 feet.

1005 ~~1050~~ JL Sample TP1B collected at 4.5 feet.
IP-4 - View of Test pit #1 @ 4.5 feet. (bottom). Miniram reading .01 mg/m3, micro R-10 mr/
IP-5 - View of material excavated from test Pit #1 on visqueen.
IP-6 - View of START Stannie collecting soil sample TP1-B
~~IP-7~~ Total size of Test pit #1 is 2 ft by 8 ft.

1010 Goldstar initiate filling in Test Pit #1. OSC indicated the remaining samples will be collected directly from the bucket with the deconned stainless steel trowel, no stainless steel bowls are required.

IP-7- View of Goldstar decorning bucket of excavator over test Pit#1.
IP-8- View of covered Test Pit #1
1015 Goldstar completed Test Pit#1- Break.
1030 START members Leaky, STANNIK & Kitka preparing area with visqueen for Test Pit location #2. START Wagner remains backup. Goldstar clearing brush in the ~~west~~ area of Test Pit #2. Test Pit #2 is located at 52/552.
1050 Goldstar initiates the excavation of Test Pit #2. - Soil is brown with a rocky layer at approximately 2 feet.
1055 START STANNIK collecting soil sample TP2A from excavator bucket. Air monitoring for this location is as follows:
OVA - 2 units above BKg.
HNu - 0 units (BKg)
micro R meter - 5 mr/hr above bkg.
Miniram .00 mg/m³
IP-9- Photograph of START STANNIK collecting soil sample TP2A from excavator bucket
1100 Goldstar continues excavating TP2. to 4 ft. - light red sandy soil encountered at 4 ft & below - no groundwater.
IP-10- Photograph of 2 ft & 4 ft excavation piles from TP#2 staged on visqueen.
1105 START STANNIK preparing to collect soil sample TP2B. HNU-BKg, OVA,-BKg, miniram - .01 mr/hr.
IP-11- Photograph of START STANNIK collecting soil sample TP2-B at 4 ft from excavator bucket.
1110 Goldstar continues excavation to approx

8ft., no change in soil profile. - no further sample taken, some Groundwater infiltration
IP-12 - Photograph of bottom of TP2 at 8ft.

1115 Goldstar decorning excavator bucket at T.P#1 with steam generator.

1130 ~~#5~~ Goldstar on break. START STANNIK & Kitha decorning in accordance with the previous mentioned decon method. START Leahy preparing, icing samples for transport.

1210 AT test pit location #6 (TP#6) this test pit location is located 20ft N.E from sample location S11/~~SSE~~ SS11 due to underground piping. START Kitha ~~Calaby~~ Calibrating another over Goldstar initiating Test pit #6. ~~Ref~~ micro R-meter 5mr/hr above Bkg, HNU 0 units. Sample TP6A & Dup. TP8A will be collected at 3.5 feet. Excavation area consists of .5ft rock, black band of soil at 3.5 feet, rocks at 4 feet below 4ft - large rocks/rubble in a light red soil layer.

1215 IP-13 - Photograph of START Kitha collecting TP6A & dup TP6A at 3.5 feet. IP-~~15~~ 14 Photograph of TP6 wall at 3.5 feet.

1220 ~~S~~ Goldstar continue excavation soil sample ~~TP8~~ TP6B will be collected at 8.5 feet in the virgin soil (non-disturbed) this sample will represent ~~any~~ clean zone. - void of contamination.

-no	1230	IP-15 Photograph of START STANNIK collecting
ater infiltration		soil sample TP6B at aprox 8.5 feet from
2		excavator bucket.
	1235	Goldstar filling in TP#6.
bucket		IP-16-View of TP#6 bottom at aprox 8.5
		feet.
K &	1240	Excavator broke down - ruptured hydrolic hose.
with		Test pit operations cease until repaired. START
ethod.		Leahy preparing samples collected for lab-
mples		oratory shipment, START STANNIK & Wagner
		preparing to collect surface & subsurface
this		soils inside PEPE TRUCKING school.
+ N.E	1310	START Leahy & Keitha preparing rinsate
due to		of auger, bowl & trowel (RIN3). OSC declined
na		witnessing rinsate collection.
	1330	START STANNIK & Wagner preparing to collect
& micro R		surface soil sample S-25. Surface soil sample
ounts.		S-25 is located under the tent of the driving
be		school. 114 feet SE from W corner post of
area		driving school fence and 61 feet NE (inside
nd of		fence)
below		IP-17, IP-18 - Photograph of START STANNIK
ght		collecting surface soil S-25 at a depth of
		0-3 inches.
tha	1350	AT surface/subsurface soil sample location
.5 feet.		S24/SS24. S24/SS24 is located within
relat		PEPE Driving School 60 ft SE of west
		corner fence post + 27 ft SE
ion soil	1400	IP-19 - Photograph of START STANNIK
lected at		collecting surface soil sample S24 at
disturbed)		0-6 inches.
ngl clean	1410	START Keitha collecting surface soil sample
		S23.

1-P20 Photograph of START Kitka collecting surface soil S23. at a depth of 0-6 inches.
Sample loc. for S23/SS23 is 60 feet SE from N corner post (fence) of Driving School & 75 feet SW. - sample location is inside fence at PEPE Driving School.
1415 1P-21 - Photograph of START STANNIK collecting subsurface soil SS24. Location - very rocky collected at depth of 10 inches.
1420 START Kitka preparing to collect subsurface soil sample SS23. Soil dark, black, rocky soil. Collected at 1 ft.
1-P22 Photograph of START Kitka collecting subsurface soil SS23.
Air monitoring readings in soil/sub-surface soil locations with background on OVA & HNU, micro R meter was 10 mr/hr.
1425 Goldstar's excavator is operational, completing filling in Test pit #6 & power washing bucket.
1445 AT Test pit location #5. Test pit location #6 is located at S6/SS6.
1450 Goldstar initiate excavation, 1 ft mica like chips, 1 ft to 4 ft mica chips w/ debris (rocks, wood) Air monitoring reading: micro R meter - 3 mr/hr above BKG, OVA & HNU BKG
2p1 Photograph of excavated wall for test pit #5.
2p-2 Photograph of START STANNIK collecting TPSA at 4 ft.
At 4 ft white, saw dust looking layer

which extends down to 9 feet.
2P-3-Photograph of electronic debris excavated from TP5.
1500 2P-4 Photograph of START Stannik collecting soil sample ~~TP-4~~ TP5B at 9 feet from Excavator bucket.
2-P5 Photograph of pit bottom & wall to TP5.
1510 Goldstar filling in TP5. START Leahy preparing samples for laboratory. For TestPit 3 & 4, S Kittle will be backup & J Wagner will be assisting in air monitoring at pit locations 3 + 4.
1530. Goldstar & START at pit location #3. located inside PEPE TRUCKING School, 70 feet SE of North corner post fence 45 ft SW.
1545 Goldstar initiates excavation of test pit #3.
- 1st 1f - Brick (red & white), black layer encountered after 2 feet. Air monitoring reading OVA + HNU BKg + Miniram also BKg., miniram .00 mg/m3.
2p-6 Photograph of debris located in TP #3.
2p-7 Photograph of START Stannik collecting soil sample TP3A at 4 ft.
2p-8 Photograph of side wall of TP#3.
~~1600 START Stannik Collecting~~
1600 Goldstar continue to excavate
2p-9 Photograph of START Stannik collecting TP3B at approx 9 ft from excavator bucket.
1605 Goldstar refilling test pit & decontaminating excavator bucket over covered pit
1645 Goldstar & START at TP#4. Goldstar initiating excavation 1st 1ft of pit roadway stone,

remaining left wood & debris (drum
carcass) No readings above background
OVA, HNU, micro meter.
Only 1 sample will be collected at
this pit location due to large volume
of wood.
2P-10 - Photograph of debris & wood
excavated from Test pit #4 at left.
1650 TP4A will be collected from the
pile staged next to the excavation
and determined to be collected at left.
2P-11 Photograph of START Wagner
collecting TP4A from pile.
2P-12 - Photograph of the bottom
of the test pit #4.
1700 Goldstar backfilling SP#4.
OSC requested soil sample be collected
near fence line - in place of
an additional test pit.
1715 2P-13 Photograph of START Starrick
collecting surface soil sample S29.
S29 is located 270 ft SE from the N
corner post + 2 ft SW inside the
driving school fence.
Test pit #4 is located 280 ft SE from
N corner post of driving School
fence + 92 ft SW.
1720 Goldstar preparing to store all
test pit locations. START packing
gear.
1730 START Healy photographing all
secured & stored pit locations
2P-14 - Photograph of secured test

pit 3
2p-15 - Photograph of secured test
pit 4
2p-16 - Photograph of secured test
pit 2
2p-17 Photograph of secured test
pit 5.
2p-18 - Photograph of secured test pit
6.
1800 START, Goldstar packing gear
1830 START, Goldstar, EPA off-site — J Leahy

30 JULY 1996, Tuesday
1430 START's Ketha and Stannich arrive on site.
Weather: Overcast, ≈ 75° F, light wind from Northwest.
Purpose of site visit is to obtain distance measurements and compass readings of buildings and other landmarks on site. Data will be used for CAD map to be supplied to EPA.
1640 START's depart site after completing tasks.
— Chris J Stanich