US EPA RECORDS CENTER REGION 5
492941

ecology and environment, inc.

International Specialists in the Environment

Job Number FT 1305

SITE NAME: METRO DISPOSAL SYSTEM INC.
ADDRESS: ROUTE #3
FAIRMONT CITY, IL 61841
TDD: F05-8912-090
PAN: FIL041758
SSID: None
US EPA ID: ILD980607204

E & E Job Number FT 1305

Telephone Code Number (312) 663-9415

Site Name Metro Disposal System, Inc.
Route #3

State/City IL/Fairmont City

TDD F05-8912-090

PAN FIL04175B

SSID None

Start/Finish Date _____ / _____

Book _____ of _____

E & E Emergency Response Center: (716) 684-8940

FIL04175B Wednesday, 5-8-91

FIT Team Members Cliff Florczak - Co-Team Leader
Ed Belmonte - Team Leader
~~Kirsten Elvekrog - Co-Team Leader/Co-Sampler~~
Deneen Benford - Site Safety Officer
Nathan Russell - Co-Site Safety Officer
Tim Rodriguez - Sampler
Kelly Maley - FIT oversite

Site Arrival Time
Site Departure Time

On-going Weather

Proposed Work Today
Interview Site Representatives
Set up decontamination station/hotline
Establish site boundaries
Collect 8 soil samples
Collect 8 monitoring well samples

Non-FIT Participating Personnel

Name	Title	Affiliation	Address
Tom Pendergast	Director of Env. Affairs	Conrail	Phil, PA
Mark Warwick	Real Estate Manager	Conrail	Indianapolis, IN

Ed Belmonte 5/8/91

FIL04175B Wednesday, 5-8-91

Arrive on site. Tim to set up bottles and prepare paperwork. Deneen to calibrate safety equipment. Nathan and Deneen to set up Decon Station and begin deconning equipment including gloves, trowels, bowls, auger, bailers, etc... Ed and ~~Kirsten~~ Cliff to perform interview with on-site representatives.

[illegible] 5/8/91

4

FIL04175B Wednesday, 5-8-91

Interview Questions Start 8:20

Director of Env. Affairs Finish 9:30

Tom Pendergast / Mark Warwick - Real Estate Manager

① What are the current site practices?

None

② How long has Conrail owned the property?

Conrail was formed in 1976 + property settlement were finalized by 1978

③ What is the past ownership history?

Unknown

What is the past operator history?

Unknown

④ What are the property boundaries?

¼ sec W of 203 on Collinsville Rd

1300 ft

everything on the Map and property further east

Any Permits? / Was landfill licensed?

Unknown

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FIL04175B Wednesday, 5-8-91

(5) What information/records does Conrail have from Metro Disposal Systems?

None

What wastes were accepted?

Unknown

(6) What are the future plans for the property?

Not to be used as a fill area

(7) Split samples? No
Site-derived wastes?
Saranex?

(8) Who installed the wells? Are there any well logs?

Unknown

(9) Do they have results from any previous analysis of monitoring well samples?

None

Any instances of fires? Unknown

Is landfill lined? Unknown

[illegible] 5/8/91

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Site Safety Meeting conducted by Deneen at Decon Station. For details including: personnel attending, levels of protection for each phase of work, Safety equipment, calibrations, background and on-site reading, see completed on-site safety logs from approved site safety plan.

E.H. Belmonte 5/8/91

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Equipment ID #'s

SCBA
Spare tank
OVA
Oxygen meter
Explosimeter
HNu
Draegar pump
Rad-Mini
First Aid Kit
Tool Kit
Conductivity meter
pH meter
Camera
MasterFlex
Bailers

FIL04175B Wednesday, 5-8-91

Soil/Sediment/Surface Water #: S1
Time: 12:30 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Kelly Malek
Location: West edge of Berm on East edge of site/Southern part of Berm
Comments/Physical Description:

Soil/Sediment/Surface Water #: S2
Time: 12:45 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Cliff Florczak
Location: West edge of Berm on East edge of site/Northern part of Berm
Comments/Physical Description:

Soil/Sediment/Surface Water #: S3
Time: 12:47 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Nathan Russel
Location: on top of land fill
Comments/Physical Description: bare soil - no vegetation
red/gray mottled soil

Cal Belmonte 5/8/91

FIL04175B Wednesday, 5-8-91

Soil/Sediment/Surface Water #: S4
Time: 12:58 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Doreen Bedford
Location: Eastern edge of landfill
Comments/Physical Description: red stained soil

Soil/Sediment/Surface Water #: S5
Time: 15:16 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Nathan Russel
Location: Eastern edge of landfill south of S4
Comments/Physical Description: gray/clayey

Soil/Sediment/Surface Water #: S6
Time: 15:00 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Doreen Bedford
Location: Western edge of landfill in Northwest corner of landfill
Comments/Physical Description:

[signature] 5/8/91

FIL04175B Wednesday, 5-8-91

Soil/Sediment/Surface Water #: 57
Time: 15:00 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by:
Location: Northern edge of landfill towards Northwest Corner of landfill
Comments/Physical Description:

Soil/Sediment/Surface Water #: 58
Time: 13:30 Composite/Grab
Surface/Depth: — ft. 0-6 in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by: Cliff Floczak
Location: East of Berm & North of Tracks
Comments/Physical Description:

Soil/Sediment/Surface Water #:
Time: Composite/Grab
Surface/Depth: ft. in.
Technique: Shovel/trowel/spoons/bowl
post-hole digger/hand auger/other-describe.
Collected by:
Location:
Comments/Physical Description:

[illegible] 5/8/91

FIL04175B Wednesday, 5-8-91

Monitoring Well #: LW1
Time: 16:00 Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

Monitoring Well #: LW2
Time: Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

FIL04175B

Wednesday, 5-8-91

Monitoring Well #:
Time: Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

G15S = 6.3 Gal
G15D = 15.6 Gal
G60 = 7.9 Gal
G14D = 22.9 Gal

Monitoring Well #:
Time: Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

FIL04175B Wednesday, 5-8-91

Monitoring Well #:
Time: Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

Monitoring Well #:
Time: Collected by:
Well Depth ft.
Depth to Water: ft.
Well lock #: Bailer ID #:
Purge Volume = d (in) h (feet)
3x = $d^2h(0.12)$ = _____gal.
5x = $d^2h(0.20)$ = _____gal.
Actual Volume Purged = _____ gal.
Location:
Date Purged: Date Sampled:
Method / Comments:

$d^2 \times h \times (0.12)$

$(2^2)(13.2)(0.12)$

13.2
0.12
.264
1.320
1.584
4
6.336

$(2^2)(16.5)(0.12)$

16.5
0.12
.330
1.650
1.980
4
7.920

16.
5.23
9.6
47.7

$(2^2)(32.5)(0.12)$

32.5
0.12
650
3250
3.900
4
13.600

$(2^2)(47.7)(0.12)$

47.7
0.12
954
4770
5.724

5.724
4
22.896

12
14

FIL04175B Wednesday, 5-8-91

Sampling Equipment

Spoons, Trowels, Bowls, Auger, SS/PVC Bailers

Decontamination Procedures

- All equipment was scrubbed with an alconox/distilled water solution and rinsed three times. Personnel will be deconned, if necessary, by scrubbing with alconox/distilled water solution and rinsing with distilled water.
- Viton gloves will be changed between samples to avoid cross contamination.

SEE SAMPLE PAPERWORK
FOR THE FOLLOWING:
CASE #
SAMPLE ID # (OTR/ITR)
CUSTODY TAG #
AIRBILL #
CHAIN OF CUSTODY #
CUSTODY SEAL #
BOTTLE LOT #
LABORATORIES
PRESERVATION TECHNIQUES
FIELD MEASUREMENTS
RECEIPT FOR SAMPLES

[signature] 5/8/91

FIL0417SB

Wednesday 5-8-91

Sampling Procedures

- Soil/Sediment samples will be collected by digging with a hand auger and/or trowel. The VOA fraction will be transferred directly into the sample bottles with a trowel. The remainder of the sample is placed into a S.S. bowl, removing rocks/debris, mixing and transferring into sample bottles with a trowel/spoon.

- Monitor wells will be purged 3-5 times the standing water volume. After recharge, samples will be collected using a S.S. bailer. The VOA fraction will be completed first, then remaining fractions will be collected.

- All samples will be collected and kept on ice.

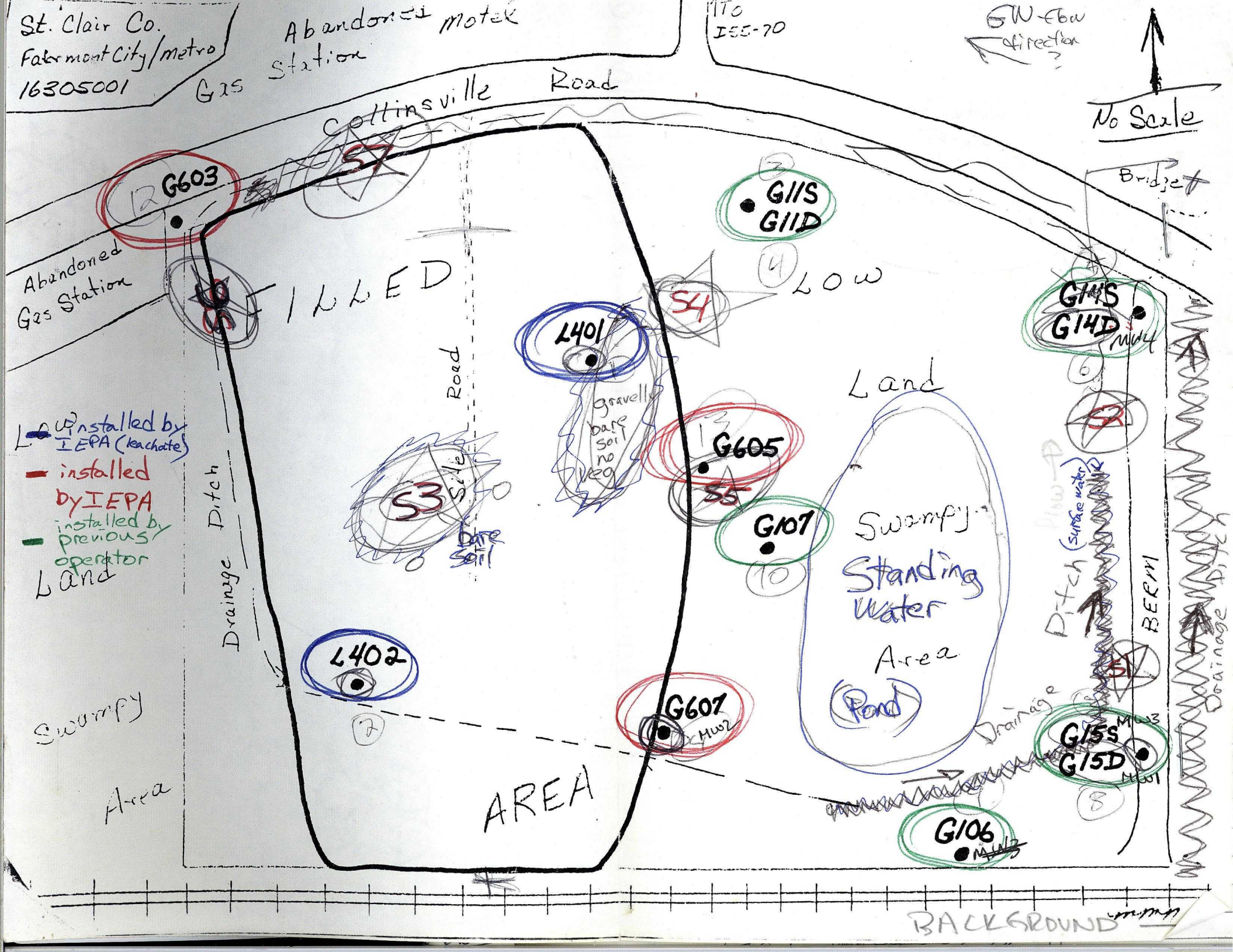
Ed Belmonte 5/8/91

1 16 FIL04175B Wednesday 5/8/91

Camera: 611273 Yashica T2
Film: 24 exp 35mm Kodak
Photographer: Ed Belmonte

Frame #	Direction	Time	Location/Subject
1			
2	N	1230	S1 on berm Southern part
3	N	1230	S1 Southern part of berm
4	W	1245	S2 Northern end of berm
5	W	1245	S2 Northern end of berm
6	N	1:40	on top of the landfill / S3 bare soil
7	N	1:40	S3 Motel 8 sign in background
8	N	1:50	S4 at E. edge of LF + W. edge of wet land
9	N	1:50	S4 facing parrallel wetlands + LF boundary
10	E	1:50	S4 facing down the LF slope at wetlands
11	N	2:12	S5 facing parrallel LF + wetland bordr
12	N	2:12	S5 " " " " "
13	NE	2:12	S5 facing wetland
14	N	3:04	S6 facing W. edge of landfill + E. edge of wetlands
15	NW	3:04	S6 facing wetlands Hwy 203 within 200 feet N
16	S	15:15	S7 sediment between Hwy 203 & LF
17	S	15:15	S7 " " " "
18	N	17:45	LW2 leachate well L401
19	N	17:45	LW2 leachate well L401
20	S	17:45	LW2 leachate well facing tracks
21	N	17:54	LW1 leachate well L402
22	N	17:54	LW1 leachate well L402
23	NE	17:54	LW1 facing I55+70 exit on 203

Ed Belmonte 5/8/91


St. Clair Co.
Fairmont City/metro
16305001
Abandoned Gas Station
Abandoned Motel
Collinsville Road
To I55-70
GW-flow direction ?
No Scale
Bridge
G603
12
S7
G11S
G11D
3
4
LOW
S4
FILLED
Abandoned Gas Station
L401
gravelly bare soil no veg
Road
Land
G14S
G14D
MW4
6
S2
G605
13
S5
S3
Site
bare soil
G107
10
Swampy
Standing Water
Area
(Pond)
Ditch (surface water)
BERM
Drainage Ditch
Drainage Ditch
L402
2
G607
MW2
S1
Drainage
G15S
G15D
MW3
MW1
8
G106
MW3
AREA
Swampy
Area
Land
installed by IEPA (leachate)
installed by IEPA
installed by previous operator
BACKGROUND

FIL04175B Wednesday 5/8/91

9:40 ⇒ Cliff, Tim, Deneen, Nathan, + Ed
begin setting up

10:05 Nathan + Deneen
OVA check out site screening equipment

10:15 Nathan + Deneen conduct site safety meeting
FIT members present.
Nathan, Deneen, Cliff, Kelly, Tim, Ed

10:35 Recon Begins
FIT members present Cliff, Kelly,
Deneen, Nathan, Ed

Tom Pendergast of Conrail
leads team to L402
Cliff dressed in level C
Cliff detects Maximum reading of 5 for methane
at L402 - nothing in the breathing
zone
- uncapped
L401 - capped
- off scale x 100
- will come back to

G607 - capped
- all methane

Stained red soil just north
of G605 (which was not found)

Ed Belmonte 5/8/91

FIL04175B Wednesday 5/8/91

11:37 G15S no readings

G15D no readings

11:53 G14D no reading

G14S broke off at ground level
- unbailable

12:25 Cliff & Kelly head toward berm
to take S1 & S2

12:25 Nathan, Deneen, Ed head towards
L401 to vent & to take S3, S4, & S5

12:45 S3 - sustained level of methane at 200-500ppm
soil sample Nathan collected red/gray soil 0-6 inches
12:58 S4 - methane at 20ppm
soil sample collected by Deneen
red stained soil
area of leaching
muddy gritty
Depth 0-4 inches

1:16 S5 - sediment sample
Depth 0-6 inches
gray - clayey
collected by Nathan

13:30
~~200~~ Cliff & Kelly take S8 soil background
sample
[illegible] 5/8/91

FIL04175B Wednesday 5/8/91

2:00 L401 3000 ppm methane
5000 ppm total reading

2:58 Cliff + Kelly take S7 sediment sample
Northern edge of landfill towards
Northwest corner

2:58 Deneen + Ed take S6 soil sample
slight red-tan stain to it
Western edge of landfill towards
Northwest corner
sampled by Deneen
Depth 0-6 inches

15:42 - Cliff Nathan Ed Kelly head out to
sample ~~L401~~ + L402 Dup

16:45 - Cliff, Nathan, Kelly, Ed
sample L401

18:00 Cliff + Ed measure G60>

20 feet to bottom from top of casing
3.5 feet depth to water

18:20 Cliff + Ed measure
G15S
17.6 feet to bottom from top of casing
4.4 depth to water
G15D
43.7 feet to bottom from top of casing
11.2 depth to water

Ed Pedmonte 5/8/91

FIL0417SB Wednesday 5/8/91

Frame #	Direction	Time	Location
24	W	18:15	SB soil background
25	W	18:15	SB

mple

E. Belmonte 5/8/91

FIL0417SB Wednesday 5/8/91

18:40 Cliff + Ed measure
G14D
57.3 feet to bottom from top of casing
9.6 depth to water

19:30 Depart from site

Ed Belmonte 5/8/91

FIL04175B

~~Wednesday~~ Thursday 5/9/91
ESB
5/9/91

9:30 - Nathan holds site safety meeting
FIT members present Cliff, Kelly, Ed, Nathan

9:45 - Cliff, Kelly, Ed screen well G60>

9:55 - Cliff & Ed screen well G15S & G15D
10:00 - Cliff & Ed screen well G14D

10:20 - Kelly & Nathan purge & sample G60>
labled as MW2/MSD

11:10 - Cliff & Kelly leave to purge & sample G14D

11:30 - Nathan, Deneen, Ed purge & sample G15S

12:30 - Nathan, Deneen, Ed purge & sample G15D

14:36 - Depart from site

Ed Belmonte 5/9/91

Ed Belmont 5/9/91

FIL0417SB Thursday 5/9/91

Frame #	Direction	Time	Location
1	S	10:30	MW2/MSD SE. Edge of LF
2	S	10:30	MW2/MSD including tracks on horizon
3	SW	10:30	MW2/MSD including SE corner of LF.
4,5,6	4 = E 6 = N	10:55	pannaramic of southern border of site
7,8,9,10	N/NW	10:58	pannaramic of southern border of site farther East of where 4,5 & 6 were shot
11	W	13:32	MW3 on berm
12	W	13:32	MW3 w/MW1 to the N in picture (right) drainage ditch to the West
13	W	13:35	MW1 on berm
14	W	13:35	MW1 w/MW3 to the S. (left) facing drainage ditch
15	N	13:35	berm facing N to Hwy 203 bridge
16	S	13:50	MW4 on berm
17	S	13:50	MW4 including length of berm
18	S	13:50	Well G/4S - broken
19,20,21	W	13:55	Abandoned gas station (West/Left) and Abandoned Motel on N side of 203
22	W	13:58	Abandoned gas station adjacent to W. border of LF. south of 203
23,24,25	S	14:00	Pannaramic of Landfill & wetlands from Hwy 203 facing RR tracks to South

[illegible] 5/9/91