

*Sampling trip of
September 20-22nd
2000*

Region 7

**Columbia Mills
[Site ID N^o 738012]**

*Sample submittal forms, chain-of-custody
& UPS shipping documents are attached...*

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 15

Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☐ yes ☒ no

Comment: Located in the low area & at the far end of the site.

lock missing - new lock needed

Well volume and water table stats:

Method I

- Depth to bottom of well: 16.55 ft.
- Depth to top of water table: 5.53 ft.
- Length of the water column in well: 11 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 11 ft.
- Three well volume calculation: [length x conversion factor***]: 5.5 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 5.5 gallons (approximate)
- Purging Method:
 - ☐ hand boiler ☐ grundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: Sept. 21, 2000 AM ☐ PM ☐
- Purging times: 12:25 PM ☒ to 12:45 PM ☒
- Purging done by: Cyn Whitfield
- Were 3 or more well volumes purged: ☒ Yes ☐ No
- If well went dry, how many gallons were purged?
took out over 10 g.
- Physical characteristics of water:
 - Coloration: started clear then cloudy
 - Odor ☐ No ☒ Yes: septic odor
 - Turbidity: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 - Clear Very Low Medium Medium High Opaque
 - Low High
- Turbidity changes noted during purge:
 - ☒ Increased ☐ Decreased ☐ No change

Sampling Information:

- Sampling date: Sept. 21, 2000
- Sampling time: 4:48 P.M.
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water:
- Color Clear Odor none
- Did turbidity increase during sampling? ☐ Yes ☒ No
- Turbidity: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐
- Clear Very Low Medium Medium High Opaque
- Low High
- Water Stats:
 - Conductivity: _____ pH: _____
 - Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 01

Good recharge on this well

slight Rusty - red color

MONITORING WELL LOG SHEET

Site Location: Columbia Mills Site ID No. 738012
 Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 1D Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor Was well locked: ☐ yes ☒ no lock missing
 Comment: was located in the far end of site in the lowland area we replaced it

Well volume and water table stats:

Method I

- Depth to bottom of well: 28.1 ft.
- Depth to top of water table: 2.75 ft.
- Length of the water column in well: 25.35 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 25.35 ft.
- Three well volume calculation: [length x conversion factor***]: 12.07 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 12.07 gallons (approximate)
- Purging Method:
 - ☒ hand bailer ☐ grndfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: Sept. 21, 2000
 - AM ☐ PM ☐
- Purging times: 12:26 PM to 12:55 PM
- Purging done by: TM Koch
- Were 3 or more well volumes purged: ☒ Yes ☐ No
- If well went dry, how many gallons were purged?

Sampling Information:

- Sampling date: Sept. 21, 2000
- Sampling time: 4:50 P.M.
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water:
- Color clear Odor none
- Did turbidity increase during sampling? ☐ Yes ☒ No
- Turbidity: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 - Clear Very Low Medium Medium High Opaque
 - Low High

Water Stats:

- Conductivity: _____ pH: _____
- Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 02

- Physical characteristics of water:

Coloration: Crystal clear.

Odor ☒ No ☐ Yes: _____

- Turbidity: ☒ ☐ ☐ ☐ ☐ ☐ ☐ ☐
 - Clear Very Low Medium Medium High Opaque
 - Low High

- Turbidity changes noted during purge:

☐ Increased ☐ Decreased ☒ No change

Stayed clear: This well always recharges fast

MONITORING WELL LOG SHEET

Site Location: Columbia Mills Site ID No. 738012
 Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 2S Well type: ☒ stick up ☐ flush mount
 Physical condition of well: ☒ good ☐ fair ☐ poor Was well locked: ☒ yes ☐ no

Comment: Outside of fence line

Well volume and water table stats:

Method I

- Depth to bottom of well: 17.5 ft.
- Depth to top of water table: 13.0 ft.
- Length of the water column in well: 4.5 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 4.5 ft.
- Three well volume calculation: [length x conversion factor***]: 2.25 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 2.25 gallons (approximate)
- Purging Method:
 - ☒ hand bailer ☐ grundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: September 21, 2000
 AM ☐ PM ☒ AM ☐ PM ☒
- Purging times: 2:20 PM ☒ to 2:30 PM ☒
- Purging done by: TM Koch
- Were 3 or more well volumes purged: ☐ Yes ☒ No
- If well went dry, how many gallons were purged?
Only about 2g. purged
- Physical characteristics of water:
 - Coloration: Reddish-brown
 - Odor ☒ No ☐ Yes: _____
 - Turbidity: ☐ Clear ☐ Very Low ☐ Low ☐ Medium ☐ High ☒ Opaque
- Turbidity changes noted during purge:
 - ☒ Increased ☐ Decreased ☐ No change

Sampling Information:

- Sampling date: Sept 22, 2000
- Sampling time: 9:12 AM
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water:
 - Color slight ruddy cast Odor none
 - Did turbidity increase during sampling? ☒ Yes ☐ No
 - Turbidity: ☐ Clear ☒ Very Low ☒ Low ☐ Medium ☐ High ☐ Opaque
- Water Stats:
 - Conductivity: _____ pH: _____
 - Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 03

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 2D

Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☒ yes ☐ no

Comment: _____

Well volume and water table stats:

Method I

- Depth to bottom of well: 27.2 ft.
- Depth to top of water table: 13.1 ft.
- Length of the water column in well: 14.1 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 14.1 ft.
- Three well volume calculation: [length x conversion factor***]: 7.05 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: _____ gallons (approximate)
- Purging Method:
 - ☒ hand ~~boiler~~ ☐ grundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: September 21, 2000
AM ☐ PM ☐
- Purging times: 2:16 PM ☒ to 2:35 PM ☒
- Purging done by: Cyn Whitfield
- Were 3 or more well volumes purged: ☐ Yes ☒ No
- if well went dry, how many gallons were purged?
About 5 gallons
- Physical characteristics of water:
 - Coloration: Ruddy-grey/brown
 - Odor ☒ No ☐ Yes: _____
- Turbidity: ☐ ☐ ☐ ☒ ☒ ☐ ☐
Clear Very Low Medium Medium High Opaque
Low High
- Turbidity changes noted during purge:
 - ☐ Increased ☐ Decreased ☒ No change

Sampling Information:

- Sampling date: Sept. 22, 2000
- Sampling time: 9:17 AM
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water:
 - Color clear Odor none
 - Did turbidity increase during sampling? ☐ Yes ☐ No
 - Turbidity: ☒ ☐ ☐ ☐ ☐ ☐ ☐
Clear Very Low Medium Medium High Opaque
Low High
- Water Stats:
 - Conductivity: _____ pH: _____
 - Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 04

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 3S

Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☐ yes ☒ no

Comment: Major bee infestation ^{was} in this well...
No bees this time...

Had to replace lock on this well

Well volume and water table stats:

Method I

- Depth to bottom of well: 17.5 ft.
- Depth to top of water table: 15.7 ft. 6.8
- Length of the water column in well: 10.7 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 10.7 ft.
- Three well volume calculation: [length x conversion factor***]: 5.35 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 5.35 gallons (approximate)
- Purging Method:
 - ☒ hand bailer ☐ grundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: Sept. 20, 2000
AM ☒ PM ☐
- Purging times: 11:52 PM ☐ to 12:15 PM ☒
- Purging done by: Cyn Whitfield
- Were 3 or more well volumes purged: ☐ Yes ☐ No
- If well went dry, how many gallons were purged?
About 2g.

- Physical characteristics of water:
 - Coloration: Rusty brown started clear then
 - Odor ☐ No ☒ Yes: Septic clouded up
 - Turbidity: ☐ ☒ ☐ ☐ ☐ ☐ ☐ ☐
 - Clear Very Low Medium Medium High Opaque

- Turbidity changes noted during purge:
 - ☒ Increased ☐ Decreased ☐ No change

Sampling Information:

- Sampling date: Sept 22, 2000
- Sampling time: 9:26 AM
- Sample taken by: TM Koch &
- Physical appearance of water: Cyn Whitfield
started clear -> turned rusty-red
- Color Clear Odor None
- Did turbidity increase during sampling? ☒ Yes ☐ No
- Turbidity: ☐ ☐ ☐ ☐ ☐ ☒ ☒
- Clear Very Low Low Medium Medium High Opaque

Water Stats:

- Conductivity: _____ pH: _____
- Temperature: _____ Turbidity: _____

Very poor recovery
Could only fill metals bottle
half way.

SAMPLE NUMBER:

B332 ~ 05

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 3D

Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☐ yes ☒ no

Comment: Extremely slow recovery. Water is very silty

Had to install a new lock

Well volume and water table stats:

Method I

- Depth to bottom of well: 26.5 ft.
- Depth to top of water table: 15.7 ft.
- Length of the water column in well: 10.8 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 10.8 ft.
- Three well volume calculation: [length x conversion factor***]: 5.4 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 5.4 gallons (approximate)
- Purging Method:
 - ☒ hand bailer ☐ groundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: Sept. 21, 2000
AM ☒ PM ☐
- Purging times: 11:55 PM to 12:20 PM
- Purging done by: TM Koch
- Were 3 or more well volumes purged: ☐ Yes ☒ No
- If well went dry, how many gallons were purged?
About 2 gallons

Physical characteristics of water:

Coloration: Rusty-brown

Odor ☒ No ☐ Yes: _____

- Turbidity: ☐ Clear ☐ Very Low ☐ Low ☐ Medium ☒ Medium High ☒ Opaque High

Turbidity changes noted during purge:

- ☒ Increased ☐ Decreased ☐ No change

Sampling Information:

- Sampling date: Sept 22, 2000
- Sampling time: 9:35 AM
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water: Reddish-brown
- Color Reddish-brown Odor none
- Did turbidity increase during sampling? ☒ Yes ☐ No
- Turbidity: ☐ Clear ☐ Very Low ☐ Low ☐ Medium ☐ Medium High ☒ High ☒ Opaque High

Water Stats:

- Conductivity: _____ pH: _____
- Temperature: _____ Turbidity: _____

slow recovery: Could not fill metals bottle completely

SAMPLE NUMBER:

B332 ~ 06

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 4S

Well type: ☒ stick up ☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☒ yes ☐ no

Comment: Outside fence near front gate

Well volume and water table stats:

Method I

- Depth to bottom of well: 17.3 ft.
- Depth to top of water table: 12.1 ft.
- Length of the water column in well: 5.2 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 5.2 ft.
- Three well volume calculation: [length x conversion factor***]: 2.6 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 2.6 gallons (approximate)
- Purging Method:
 - ☒ hand bailer ☐ grundfos pump
 - ☐ peristaltic pump ☐ other _____
- Purging date: Sept. 21, 2000 AM ☒ PM ☐
- Purging times: 10:50 PM ☐ to 11:30 PM ☐
- Purging done by: Cym Whitfield
- Were 3 or more well volumes purged: ☒ Yes ☐ No
- If well went dry, how many gallons were purged?
took out over 5g.
- Physical characteristics of water:
 - Coloration: murky-brown
 - Odor ☒ No ☐ Yes: _____
- Turbidity: ☐ Clear ☐ Very Low ☒ Low ☒ Medium ☐ High ☐ Opaque
- Turbidity changes noted during purge:
 - ☒ Increased ☒ Decreased ☐ No change

Sampling Information:

- Sampling date: Sept. 21, 2000
- Sampling time: 4:30 PM
- Sample taken by: GM Koch
- Physical appearance of water:
- Color crystal Odor none
- Did turbidity increase during sampling? ☐ Yes ☒ No
- Turbidity: ☒ Clear ☐ Very Low ☐ Low ☐ Medium ☐ High ☐ Opaque
- Water Stats:
 - Conductivity: _____ pH: _____
 - Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 07

later on as purging was almost finished

MONITORING WELL LOG SHEET

Site Location: Columbia Mills

Site ID No. 738012

Site Address: State Route 48
Minetto, NY 13115

Monitoring Well No.: 4D

Well type: ☒ stick up

☐ flush mount

Physical condition of well: ☒ good ☐ fair ☐ poor

Was well locked: ☐ yes ☐ no

Comment: Outside fence near front gate

Well volume and water table stats:

Method I

- Depth to bottom of well: 27.0 ft.
- Depth to top of water table: 11.3 ft.
- Length of the water column in well: 15.7 ft.
- Water volume calculation [length x conversion factor**] = _____ gallons
- Three volumes: _____ gallons

Conversion Factor

- ☒ 2" well = .163
- ☐ 3" well = .367
- ☐ 4" well = .653
- ☐ 6" well = 1.469

Method II

Alternative estimated calculation of three well volumes for 2, 3, 3 1/2 or 4 inch wells

- Length of water column in well: 15.7 ft.
- Three well volume calculation: [length x conversion factor***]: 7.85 gallons

***[2" - .5] [3" - 1.1] [3 1/2" - 1.5] [4" - 2.0]

Purging information:

- Three well volumes are:
 - ☐ Method I: _____ gallons (actual)
 - ☒ Method II: 7.85 gallons (approximate)
- Purging Method:
 - ☒ hand boiler
 - ☐ grundfos pump
 - ☐ peristaltic pump
 - ☐ other _____
- Purging date: Sept. 21, 2000
 - AM ☐
 - PM ☒
- Purging times: 10:55 PM to 11:25 PM
- Purging done by: TM Koch
- Were 3 or more well volumes purged: ☒ Yes ☐ No
- If well went dry, how many gallons were purged?
 - _____
 - took out about 11g.
- Physical characteristics of water:
 - Coloration: Clear - low colour
 - Odor: ☒ No ☐ Yes: slight brown
 - Turbidity:

☐	☒	☒	☒	☐	☐	☐
Clear	Very	Low	Medium	Medium	High	Opaque
	Low					
- Turbidity changes noted during purge:
 - ☒ Increased
 - ☐ Decreased
 - ☐ No change

Sampling Information:

- Sampling date: Sept. 21, 2000
- Sampling time: 4:32 P.M.
- Sample taken by: TM Koch & Cyn Whitfield
- Physical appearance of water: _____
- Color: Clear Odor: sulfury odor
- Did turbidity increase during sampling? ☐ Yes ☒ No
- Turbidity:

☒	☐	☐	☐	☐	☐	☐
Clear	Very	Low	Medium	Medium	High	Opaque
	Low					
- Water Stats:
 - Conductivity: _____ pH: _____
 - Temperature: _____ Turbidity: _____

SAMPLE NUMBER:

B332 ~ 08

turned dishwater-grey

[illegible]

CHAIN OF CUSTODY RECORD

CHEMTECH JOB NO.:

CHEMTECH QUOTE N:

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY:	NYSDEC: L-R		
ADDRESS:	Room 252: 50 Wolf Rd.		
CITY:	Albany	STATE:	NY 12233-
ATTENTION:	TAM Koch		ZIP: 7010
PHONE:	518-457-0747		518-451-8989
FAX:			

PROJECT INFORMATION

PROJECT NAME:	Columbia	
PROJECT NO.:	2	
PROJECT MANAGER:	TM Koch	
LOCATION:	Albany	
PHONE:		FAX:

BILLING INFORMATION

BILL TO:	PO #:
ADDRESS:	
CITY:	STATE: ZIP:
ATTENTION:	PHONE:

DATA TURNAROUND INFORMATION

FAX: _____ DAYS *

HARD COPY: _____ DAYS *

EDD: _____ DAYS *

* TO BE APPROVED BY CHEMTECH

** NORMAL TURNAROUND TIME - 14 DAYS

DATA DELIVERABLE INFORMATION

☐ RESULTS ONLY
☐ RESULTS + QC
☐ NJ REDUCED
☐ NJ CLP
☐ EDD FORMAT:

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION
--------------------------	----------------------------------

1.	5H100 - 0920 - B332 - 09
2.	10
3.	10
4.	10
5.	
6.	
7.	
8.	

SAMPLE	SAMPLE	S:
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[illegible]

PRESERVATIVES

A	B	C				
1	2	3	4	5	6	
2	1	4	1	1	1	
-	-	-	-	-	-	
2	4	4	4	-	-	

COMMENTS

Specify Preservatives
B - HNO_3
D - NaOH
F - Other
CE
H_2SO_4
HCl

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. <i>SM Had</i>	<i>9/24/00 2:10 PM</i>	1.
RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:
2.		2.
RELINQUISHED BY:	DATE/TIME:	RECEIVED FOR LAB BY:
3.		3.

Conditions of bottles or coolers at receipt: ☐ Compliant ☐ Non-Compliant Temp. of Cooler _____

Comments: _____

Check HNO_3 levels in metals sample (for water)

Page 22 of 22

Columbia Mills :
September 21-22, 2000

O&M Sampling
Site ID No. 738012

Sampling chronology:

9/21/00 : Arrive @ the beginning of the access road (near the old derelict houses). Discover that access to the road was blocked by light-weight chain link fencing which we were able to easily remove. Drive onto the Columbia property. Present for sampling: TM Koch & Cyn Whitfield.

The following wells were purged on September 21st: 1S&D, 2S&D, 3S&D and 4S&D. As usual, Wells 3S & 3D recovered very slowly, most likely because of clogged screens.

* I also collected a leachate-water sample at the outlet point near the pond. Leachate-water was crystal clear w/ little ~~and~~ odor. Sample was taken @ 3:15 P.M. Sample No. B332-09. Leachate-water flow was too slow to measure, in fact I couldn't even detect any flow at all. There was a very slight swampy/septic odor noted in this area.

* Pond sediment was also collected while I was back in this area. I took shovel fulls of sediment from both sides of the pond & composited them. Sediment was brownish-grey in color & silty/fine composition. Noticeable swampy odor (not too strong however) Sample taken @ 3:25 P.M. Sample No. B332-10.

After completing the leachate & sediment sampling we collected groundwater samples from Wells 1S&D & 4S&D. Left site @ 5:35 P.M.

Columbia Mills sampling (continued)

9/22/00: Returned to the Columbia Mills property in order to collect the remaining ground-water samples. Arrived on-site @ 9:05 AM. Sampled Wells 2S & 2D which are located outside the fence line. Sampling times: 2S: 9:12 AM; 2D: 9:17 AM.

Went inside the fenced-in property and sampled wells 3S & 3D. Even after allowing the wells to recover overnight, recovery was terrible. We took VOA samples ~~bottles~~ first, then metals ~~bottles~~ samples. Recovery in Well 3S was so poor that I could only fill the metals bottle half-way. Sampling times: 3S: 9:26 AM & 3D: 9:35 AM.

This completed the 2000 sampling trip to Columbia Mills. We repacked all the sampling bottles & left the site @ about 10:10 AM.

I drove directly back to Albany & delivered the samples to the UPS office on Wade Road in Latham, N.Y. Sample delivery time was 2:12 P.M. I contacted Kurt Hummer of Chemtech Lab (where the samples were delivered to) on Monday, September 25, 2000. He informed me that the samples arrived okay & all paperwork was in order. Analytical results should be available w/in one month.

Field Notes

Columbia Mills
State Rte. 48
Mine to [77]
Oswego Co.

[Site ID No. 738012]

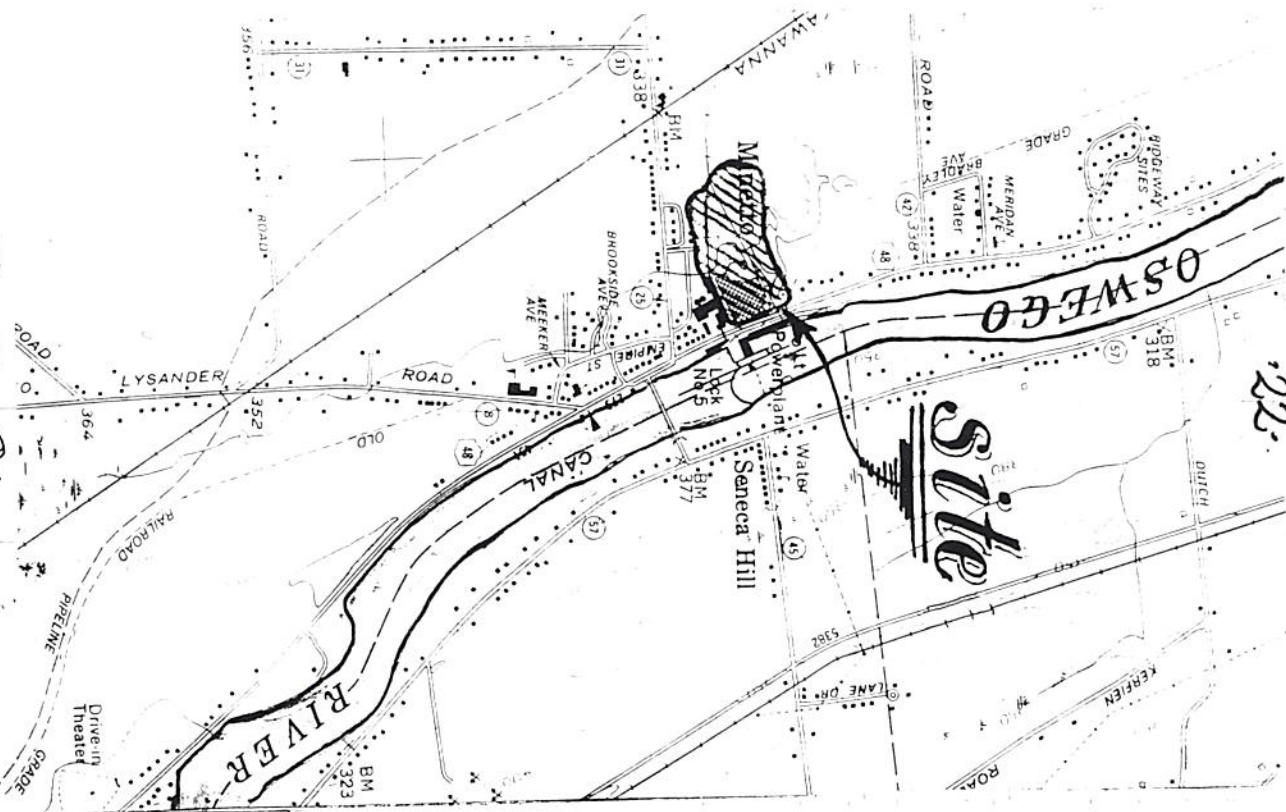
Columbia Mills
State Route 48
Mine to [77]
Oswego County
Site ID No. 738012

Columbia

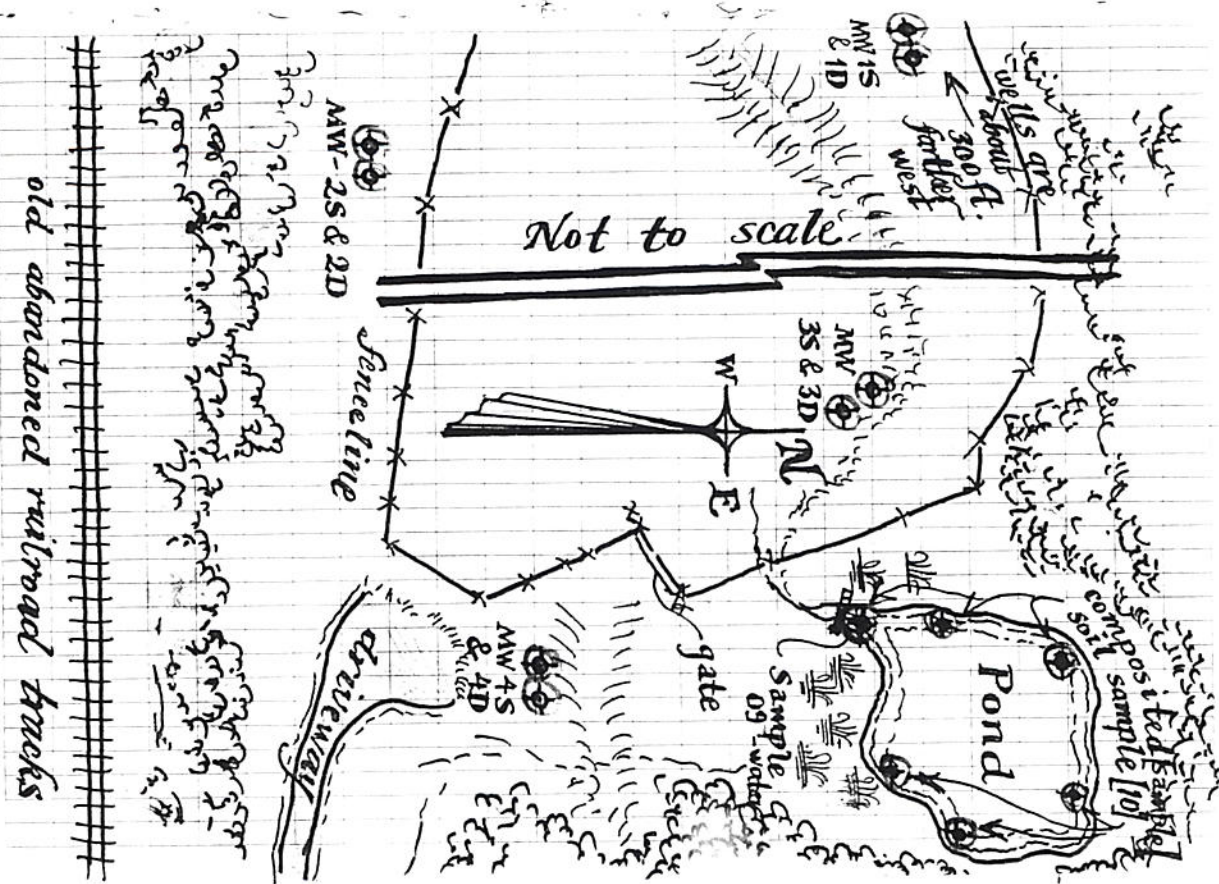
* also notes.

Operation & maintenance [O&M]
Sampling is scheduled for September 25th & 26th, 1998. We will be sampling the eight shallow monitoring wells on the old Columbia Mills landfill. We will also be collecting samples on & around an on-site pond. Samples are to be analysed for semi-volatiles (SVHs) & metals plus cyanide. The SVH & metal analysis will be done by the mobile lab & cyanide analysis will be done by Columbia Analytical in Rochester, N.Y. John Shane arranged for sample bottles from the mobile lab & I took care of getting the cyanide sample bottles from Columbia (done on Sept. 9th). They arrived on Friday, Sept. 11th. All were in good shape.

Location Map



Site sketch



.24.

Arrived on the Columbia Mills property on Tuesday, Sept. 15, 1938

about 10:20 AM
Prepared for sampling & investigation:

- Tom Noel
- Tom Silverster (arrived later w/ sample bottles)
- John Strong
- Chris Ross - R/7
- Elizabeth Sheets - R/7

Weather conditions @ the time of arrival on-site:

- Very mild (upper 70's)
- Almost no breeze
- Completely overcast
- Rainy (intermittent)

After arriving in Minnetonka we drove back ~~to~~ to the land fill. It was recently mowed & looked good, but was still fairly muggy and very wet from today's rain. There's an incredible amount of mosquitoes out here today.

.25.

Chris R. drove back into "down-town" Minnetonka & brought a can of insect repellent which ~~at least~~ we all used prior to purging the wells. We proceeded out to the eight wells on the land fill and measured the depths to the water table. We already have the well depths stats from the well logs. After getting water stats, we calculated pump volumes. See monitoring well log sheets for details. Following this we broke into two teams to do the purging. All wells were purged by hand with the possible exception of the wells recovered recently. We finished up the purging by about 1:45 PM and broke for lunch. Tom Silverster came by at this time with sample bottles from the in-mobil lab. The sample bottles were not available yesterday as ~~the~~ original patient. We also discussed @ this time that we weren't supposed w/ any of the required metals bottles.

.26.

Furthermore we were informed that the mobil lab would be able to run VOT analysis. Fortunately the VOT analysis can be done by Columbia Chemical. I contacted Mike Perry who confirmed that they would be able to do it by this weekend.

We ~~will~~ be able to get plastic metals bottles from the Region 7 office. However, because it was starting to get late, we decided to leave Columbia Mills & head down to R7 & get the bottles. We will take care of all the sampling tomorrow. We left the site @ about 3:30 P.M. & headed directly down to the Region 7 office for the bottles. Following this we completed labeling the remaining bottles & got them staged for tomorrow's work.

.27.

Arrived back @ the Columbia Mills property on September 16th @ 8:15 AM.

Prevent for sampling:

• TM Rock
• Tom Strong

Weather conditions @ the time of arrival on site:

- Overcast
- Humid (not as bad as yesterday)
- Breezy
- Cool (mid 60's)

We will begin our sampling w/ the monitoring wells 13 & 14 @ the far corner of the property. These two wells had the best record of any on-site. We began sampling @ well 15 @ about 8:25 AM. Refer to the monitoring well log sheets for full details.

.28.

Following our collecting samples @ MW-15 & D, we continued on to wells 25 & 2D which are located outside of the fenced in land fill (just south of the fence). Mostly was fairly turbid. The wells did not recover a 17" dust great. (See well log sheet)

After finishing the sampling @ 25 & 2D we continued on to MW-35 & 3D. These wells are known to recover very poorly. Based on last year's experience)

This year was no exception.

Water recovery was "terrible".

I was only able to fill the metals bottle half way before running completely out of water on well MW-35. Well 3D was worse;

I was only able to get enough water to fill the 10A bottles & half of the small cyanide bottle. We left the wells for a while ~~in order to~~ hoping that it might recover. Unfortunately, even after waiting ^{the} water level

.29.

* pH was 6.7

barely went up. After collecting water from MW-45 & 4D, we went over to the pond located in the northeast corner of the property for a leachate/water sample & a composited sediment sample. The "leachate" (a.R.Q. water) sample was taken @ 10:05 AM on the outfall from the pond. Before taking the sample John calculated the water flow leaving the pond @ this point. It is estimated to be approximately 1 gallon / in 24 seconds.

~~Sample~~ Sample was crystal clear. **

Following the "leachate/water"

sample we got a composited sediment sample. I took shovel fulls of pond sediment from five different spots around the perimeter of the pond. The sediment was all pretty much "census dust"; charcoal grey in color, fine grained w/ rotted vegetation mixed in. The sediment had a mottled, opatic pond odor - but not particularly unpleasant. Sample time

.30.

was approximately 10:40 AM.

John took 5 scoops from each shovel full & mixed them on a stainless steel tray in order to get a true composited sample.

Two completed our sampling

@ the Columbia Mills property.

After becoming all bagged and cleaned up, we approached the vehicle & left the site.

(a approximately 11:25 AM) We

stopped off @ the small market in Mundetta for ice. From here

we drove directly to the WPS

office in East Syracuse. I com-

pleted all of the paperwork sub-

mittals & chain of custody on the

way. Dropped off the WPA & cyan-

ide samples @ WPS at approximately

12:30 PM. We then drove on to

the Saratoga lab. Delivered

the BVA & metals samples to

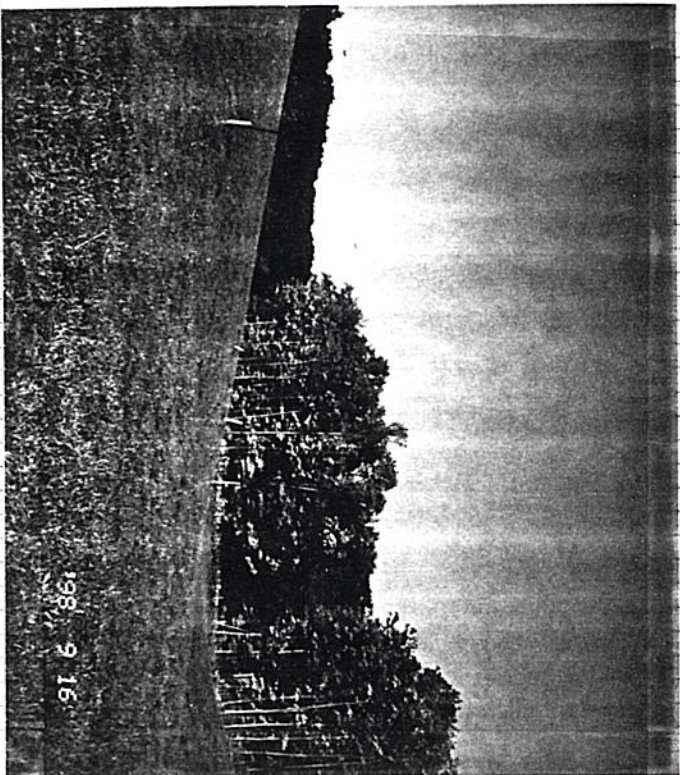
Martin & McEwan @ the lab

@ approximately 3:30 PM.

On Friday, September 18th I

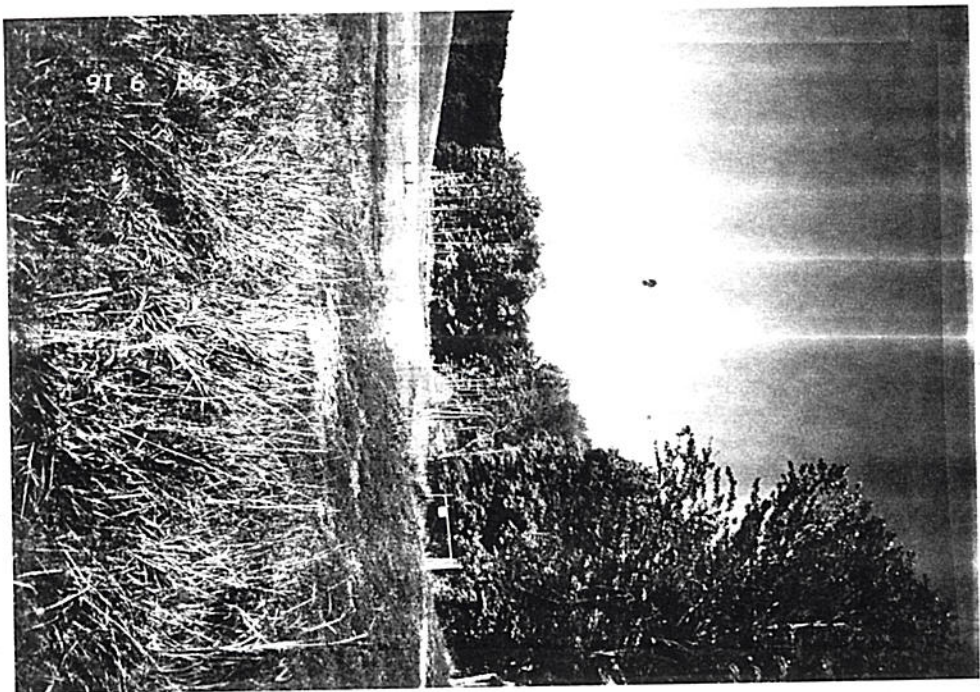
.31.

called Mike Perry @ Columbia Analy-
tical. He informed me that the
samples arrived okay, and that all
paperwork submittals were in order.



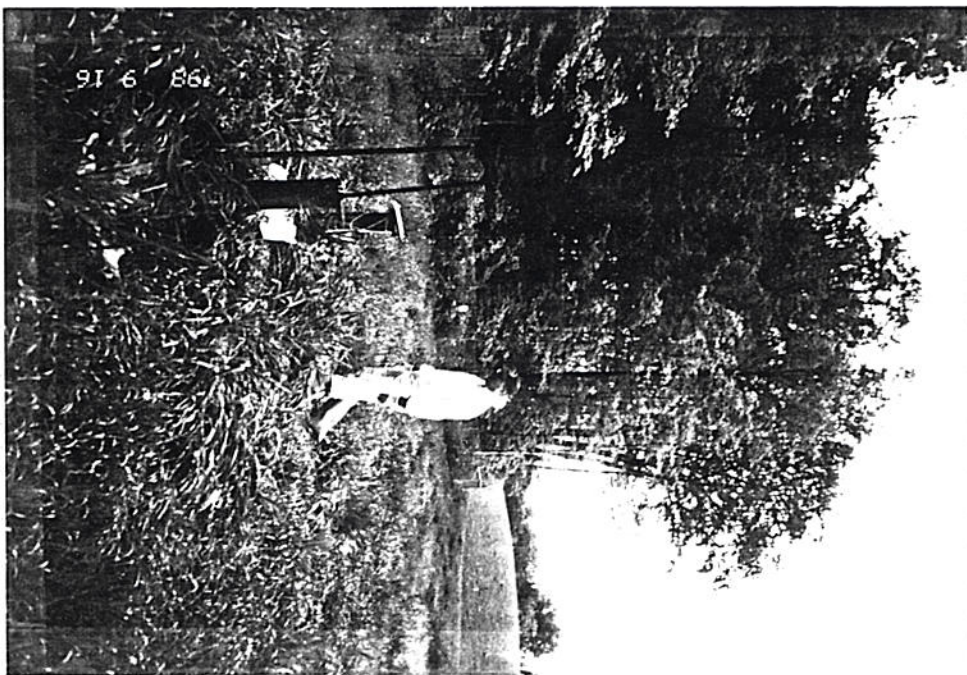
View of the land fill
looking west towards
WETS 15 & 1D

.32.



Second view of the pond
looking west from the pond

.33.



Monitoring Wells 15 & 1D

Monitoring Wells 45 & 4D

Monitoring Wells 35 & 3D

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Shipping Document

See instructions on back. Call 1-800-PICK-UPS (800-742-5877) for additional information.

TRACKING NUMBER 1Z F02 69R 22 1000 477 0

1 SHIPMENT FROM
SHIPPER'S UPS ACCOUNT NO. **F0269R**
REFERENCE NUMBER

NAME *Columbia*
COMPANY *Thomas M. Koch*
TELEPHONE *518-457-0749*

STREET ADDRESS *NYS ENCON ENV REMEDIATION*
**50 WOLF RD RM 302 252
CITY AND STATE *ALBANY NY*
ZIP CODE *12233-7010***

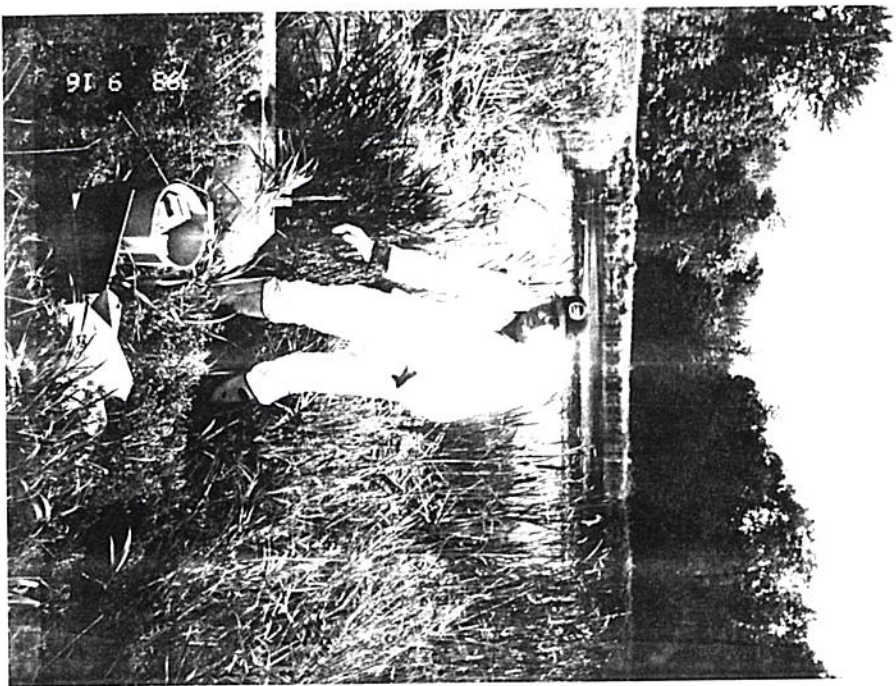
2 EXTREMELY URGENT DELIVERY TO
NAME *Kurt Hummer*
TELEPHONE *732-225-4111*

COMPANY *Chemtech*
STREET ADDRESS *205 Campus Plaza 1*
CITY AND STATE (INCLUDE COUNTRY IF INTERNATIONAL) *Edison, NJ*
ZIP CODE *08837*



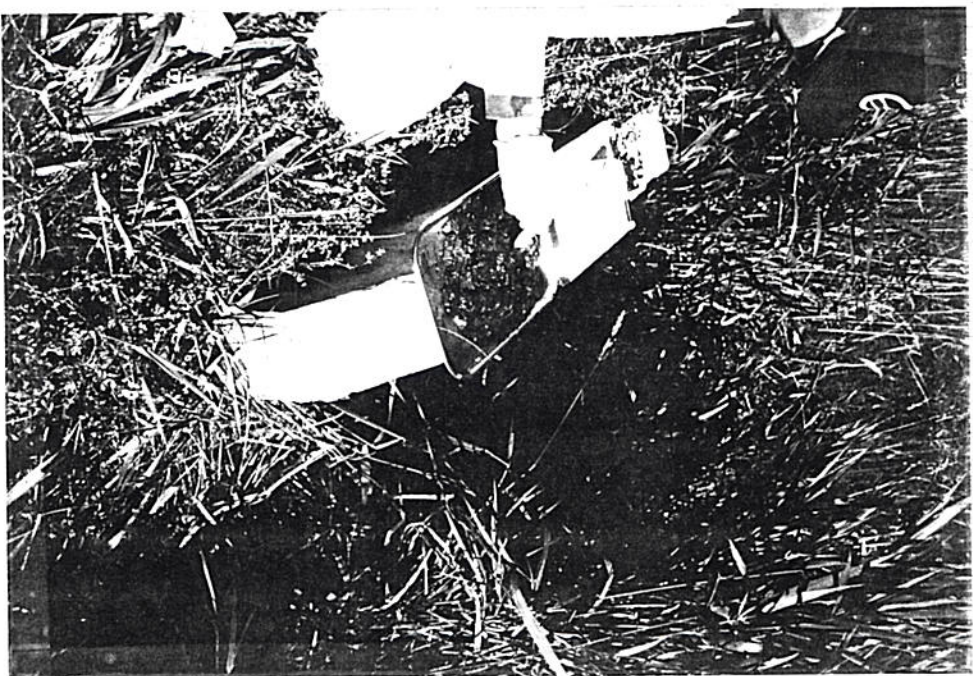
3 WEIGHT ENTER "LIT" IF LETTER <i>026</i>	DIMENSIONAL WEIGHT L X W X H <i>103</i>	SHIPPER'S COPY
4 TYPE OF SERVICE ☐ NEXT DAY AIR ☐ EXPRESS (INTL)	CHARGES	
5 FOR WORLDWIDE EXPRESS SHIPMENTS Mark an "X" in this box if shipment only ☒ SATURDAY DELIVERY RECEIPT ☐ SATURDAY DELIVERY Mark an "X" in this box if shipment only ☐ DOCUMENTS ONLY ☐ SATURDAY DELIVERY	DECLARED VALUE \$ <i>10.00</i> AMOUNT \$ <i>5.00</i> C.O.D. \$ <i>5.00</i> AMOUNT \$ <i>5.00</i>	
6 ADDITIONAL HANDLING CHARGE ☒ An Additional Handling Charge applies for certain items. See instructions.	OPTIONAL SERVICES	
7 METHOD OF PAYMENT ☒ SHIPPER ☐ BILL TO THIRD PARTY ☐ CREDIT CARD ☐ AMERICAN EXPRESS ☐ DINER'S CLUB ☐ MASTER CARD ☐ VISA	8 RECEIVERS / THIRD PARTY'S UPS ACCT. NO. OR MAJOR CREDIT CARD NO.	EXPIRATION DATE
THIRD PARTY'S COMPANY NAME		
STREET ADDRESS		
CITY AND STATE		
ZIP CODE		
9 SHIPPER'S SIGNATURE <i>X Thomas M. Koch</i>		DATE OF SHIPMENT <i>9/22/00</i>

.38.



Sample 9, "leachate" outfall area
near pond. Many fish were
noted in the pond.

.39.



Composite sediment sample being
mixed from five locations.
End of Field Notes...