APPENDIX E

MONITORING WELL BORING LOG/CONSTRUCTION LOGS/ MONITORING WELL SAMPLING LOGS

BORING REPORT

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 FOREST AVENUE, LOCUST VALLEY, NY 11560
8000 EXCELSIOR DRIVE, MADISON, WI 53717
315 W. HURON STREET, SUITE 220, ANN ARBOR MI 48104
519 PLEASANT HOME ROAD, SUITE 3-C, AUGUSTA, GA 30907

E STARTED: 8-11-92	DATE FINISHED: 8-12-92	BORING NO. 2XD
CLIENT: Fairchild Republic Corporation		PROJECT NO.: 961-01.2
PROJECT NAME & LOCATION: Old Recharge Basin		PREPARED BY: Kevin McHale
DRILLING CONTRACTOR: ADT	LOGGED BY: K. McHale	DRILLER: R. Bauman

EQUIPMENT:	CASING:	SOIL SAMPLER: SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE:		Standard						Mobile B-61 Hollow Stem Auger
SIZE:		2" x 24"						
HAMMER WT/FALL		140/30		BIT:				

SURFACE ELEVATION: SURFACE CONDITIONS:

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND NO.	SAMPLE DEPTH (FROM-TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								
5								
	0	SS-1	5-7	D	12"	87		Light brown fine to coarse sand and gravel with trace pebbles.
10							GW	
	0	SS-2	10-12		0"	86		No recovery.
15								
	0	SS-3	15-17		0"	46		No recovery.
20								

PROJECT NAME: Old Recharge Basin BORING NO. 2XD PROJECT NO. 961-01.2 SHEET 2 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
	0	SS-4	20-22	M	14"	27		Light brown fine to coarse sand and gravel with trace pebbles.
25								
							▽	
	0	SS-5	25-27	W	8"	27		Light brown fine to coarse sand and gravel with trace pebbles.
30								
	0	SS-6	30-32	W	10"	20		Light brown fine to coarse gravel with some medium to coarse sand and pebblea.
35								
	3.5	SS-7	35-37	W	6"	46		Light brown fine to coarse gravel with some medium to coarse sand and pebbles.
							GW	
40								
	0	SS-8	40-42	W	10"	27		Coarse gravel and pebbles with trace light brown sand.
45								
	7	SS-9	45-47	W	3"	34		Coarse gravel and pebbles with trace light brown sand
50								
	10	SS-10	50-52	W	6"	40		Coarse gravel and pebbles with trace light brown sand.
55								

PROJECT NAME: Old Recharge Basin BORING NO. 2XD PROJECT NO. 961-01.2 SHEET 3 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
	0	SS-11	55-57	W	0	39		No recovery.
60								
	0	SS-12	60-62	W	6"	42		Coarse gravel and pebbles.
65								
	4	SS-13	65-67	W	18"	47		Brown coarse sand and gravel.
70								
							GW	
	0	SS-14	70-72	W	3"	42		Brown coarse sand and gravel.
75								
	1.5	SS-15	75-77	W	24"	32		Orange sand, gravel, and pebbles.
80								
	0	SS-16	80-82	W	0	45		No recovery.
85								
	0	SS-17	85-87	W	3"	200+		Well rounded pebbles and gravel.
90								

PROJECT NAME: Old Recharge Basin BORING NO. 2XD PROJECT NO. 961-01.2 SHEET 4 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
								Red/orange sand, gravel, and pebbles.
	6	SS-18	90-92	W	24"	40		
95							GW	
	3	SS-19	95-97	W	14"	20		Brown very fine to fine sand trace gravel and pebbles, mica flecs.
100								
	5	SS-20	100-102	W	16"	80	CL	Light brown clay trace silt and grey/orange coloring @ 101 - 101.75.
							GW	
105								Brown fine sand with mica flecs.
	8	SS-21	105-107	W	18"	75	CL	Light brown clay @ 106-106.8
								EOB @ 107
110								
115								
120								
125								

BORING REPORT

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 FOREST AVENUE, LOCUST VALLEY, NY 11560
8000 EXCELSIOR DRIVE, MADISON, WI 53717
315 W. HURON STREET, SUITE 220, ANN ARBOR, MI 48104
519 PLEASANT HOME ROAD, SUITE 3-C, AUGUSTA, GA 30907

E STARTED: 8-12-92	DATE FINISHED: 8-13-92	BORING NO. 8I, 8S
CLIENT: Fairchild Republic Corporation		PROJECT NO.: 961-01.2
PROJECT NAME & LOCATION: Old Recharge Basin		PREPARED BY: Kevin McHale
DRILLING CONTRACTOR: ADT	LOGGED BY: K. McHale	DRILLER: R. Bauman

EQUIPMENT:	CASING:	SOIL SAMPLER: SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE:		Standard						Mobile B-61 Hollow Stem Auger
SIZE:		2" x 24"						
HAMMER WT/FALL		140/30		BIT:				

SURFACE ELEVATION: SURFACE CONDITIONS:

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND NO.	SAMPLE DEPTH (FROM-TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								
5								
						8-15		Light brown coarse sand, gravel and pebbles.
		SS-1	5-7	D	12"	22-32		
10							GW	
		SS-2	10-12	D	12"	31		As above.
15								
		SS-3	15-17	D	11"	46		As above.
20								

PROJECT NAME: Old Recharge Basin BORING NO. 81, 8S PROJECT NO. 961-01.2 SHEET 2 OF 3

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
								Brown fine sand.
		SS-4	20-22	D	3"	57		
25								
							▽	
		SS-5	25-27	W	12"	24		Brown medium to coarse sand and gravel.
30								
		SS-6	30-32	W	12"	15		As above.
35								
		SS-7	35-37	W	10"	27		As above.
40							GW	
		SS-8	40-42	W	4"	46		As above.
45								
		SS-9	45-47	W	6"	56		Coarse gravel and pebbles.
50								
		SS-10	50-52	W	20"	27		Brown coarse sand, gravel and pebbles.
55								

PROJECT NAME: Old Recharge Basin BORING NO. 8I, 8S PROJECT NO. 961-01.2 SHEET 3 OF 3

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
		SS-11	55-57	W	10"	29		Coarse gravel and pebbles.
							GW	
60								
		SS-12	60-62	W	6"	26		As above.
								EOB @ 62.
65								
70								
75								
80								
85								
90								

BORING REPORT

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 FOREST AVENUE, LOCUST VALLEY, NY 11560
8000 EXCELSIOR DRIVE, MADISON, WI 53717
315 W. HURON STREET, SUITE 220, ANN ARBOR, MI 48104
519 PLEASANT HOME ROAD, SUITE 3-C, AUGUSTA, GA 30907

DATE STARTED: 8-13-92	DATE FINISHED: 8-13-92	BORING NO. 9I, 9S
CLIENT: Fairchild Republic Corporation		PROJECT NO.: 961-01.2
PROJECT NAME & LOCATION: Old Recharge Basin		PREPARED BY: Kevin McHale
DRILLING CONTRACTOR: ADT	LOGGED BY: K. McHale	DRILLER: R. Bauman

EQUIPMENT:	CASING:	SOIL SAMPLER: SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE:		Standard						Mobile B-61 Hollow Stem Auger
SIZE:		2" x 24"						
HAMMER WT/FALL		140/30		BIT:				

SURFACE ELEVATION: SURFACE CONDITIONS:

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND NO.	SAMPLE DEPTH (FROM-TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								
5								
						6-11		Brown fine to coarse sand and gravel trace pebbles.
	0.3	SS-1	5-7	M	6"	15-17		
10								
							GW	
	0.8	SS-2	10-12	M	12"	44		As above.
15								
	1.0	SS-3	15-17	M	16"	40		As above.
20								

PROJECT NAME: Old Recharge Basin BORING NO. 91, 9S PROJECT NO. 961-01.2 SHEET 2 OF 3

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
								Red/orange and brown fine to coarse sand, gravel and pebbles.
	2.6	SS-4	20-22	M	12"	34		
25								
							▽	
	2.6	SS-5	25-27	W	10"	20		As above.
30								
								Brown fine to coarse sand, gravel with trace pebbles.
	2.5	SS-6	30-32	W	8"	34		
35								
	2.9	SS-7	35-37	W	10"	39	GW	As above.
40								
	2.6	SS-8	40-42	W	14"	36		As above.
45								
	2.6	SS-9	45-47	W	10"	42		As above.
50								
	1.4	SS-10	50-52	W	6"	29		As above.
55								

PROJECT NAME: Old Recharge Basin BORING NO. 9I, 9S PROJECT NO. 961-01.2 SHEET 3 OF 3

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
	2.2	SS-11	55-57	W	16"	62		As above.
							GW	
60								
	1.2	SS-12	60-62	W	10"	58		As above.
								EOB @ 62.
65								
70								
75								
80								
85								
90								

BORING REPORT

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 FOREST AVENUE, LOCUST VALLEY, NY 11560
8000 EXCELSIOR DRIVE, MADISON, WI 53717
315 W. HURON STREET, SUITE 220, ANN ARBOR MI 48104
519 PLEASANT HOME ROAD, SUITE 3-C, AUGUSTA, GA 30907

E STARTED: 10-19-92	DATE FINISHED: 10-19-92	BORING NO. 100
CLIENT: Fairchild Republic Company		PROJECT NO.: 961-01.2
PROJECT NAME & LOCATION: Old Recharge Basin		PREPARED BY: Kevin McHale
DRILLING CONTRACTOR: ADT	LOGGED BY: Kevin McHale	DRILLER: Cary Ellison

EQUIPMENT:	CASING:	SOIL SAMPLER: SPLIT SPOON		CORE BARREL	AUGER	MON. WELL (MW) PIPE	MON. WELL (MW) CAP	DRILL RIG AND METHOD
TYPE:		STD						Mobile B-61 HDX
SIZE:		2" x 24"						
HAMMER WT/FALL		140/30		BIT:				

SURFACE ELEVATION: SURFACE CONDITIONS:

WATER LEVEL AT FT. AFTER HRS. FT. AFTER HRS.

DEPTH BELOW GRADE	OVA READINGS	SAMPLE TYPE AND NO.	SAMPLE DEPTH (FROM-TO)	SAMPLE MOISTURE CONTENT	SAMPLE RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV0.00	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=20-30% AND=35-50%
0								Dark brown medium sand and topsoil.
	0	SS-1	0-2	M	4"	26		
5								
10	0	SS-2	7-9	M	12"	36	CL	Light grey silty sandy clay with trace gravel and pebbles.
15	0	SS-3	12-14	M	10"	36"	GW	Fine to coarse brown sand and gravel; trace pebbles.
20	0	SS-4	17-19	M	14"	29		As Above.

PROJECT NAME: Old Recharge Basin BORING NO. 10D PROJECT NO. 961-01.2 SHEET 2 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
	0	SS-5	22-24	M	16"	44		Fine to coarse brown sand and gravel; trace pebbles.
25								
	0	SS-6	27-29	W	6"	38		As above.
30								
	0	SS-7	32-34	W	16"	21		As above.
35								
							GW	
	0	SS-8	37-39	W	14"	17		As above.
40								
	0	SS-9	42-44	W	14"	26		As above.
45								
	0	SS-10	47-49	W	16"	17		As above.
50								
	0	SS-11	52-54	W	18"	28		As above.
55								

PROJECT NAME: Old Recharge Basin BORING NO. 10D PROJECT NO. 961-01.2 SHEET 3 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
	0	SS-12	57-59	W	12"	17		Fine to coarse brown sand and gravel; trace pebbles.
60								
	0	SS-13	62-64	W	4"	15		As above.
65								
	0	SS-14	67-69	W	12"	17		As above.
70								
							GW	
	0	SS-15	72-74	W	14"	22		As above.
75								
	0	SS-16	77-79	W	14"	22		As above.
80								
	0	SS-17	82-84	W	12"	125		As above with orange staining.
85								
	0	SS-18	87-89	W	12"	40	SW	Fine to coarse brown sand.
90								

PROJECT NAME: Old Recharge Basin BORING NO. 10D PROJECT NO. 961-01.2 SHEET 4 OF 4

DEPTH BELOW GRADE	OVA READINGS	TYPE AND NO.	DEPTH (FROM-TO)	MOISTURE CONTENT	RECOVERY	BLOWS/6" OR CORE TIME	STRATA DEPTH/ ELEV.	DESCRIPTION & REMARKS TRACE=0-10% LITTLE=10-20% SOME=0-30% AND=35-50%
							SW	Fine Brown sand trace gravel.
	0	SS-19	92-94	W	14"	40		
95								
							SM	
								Fine brown sand with little silt.
	0	SS-20	97-99	W	12"	36		EOB @ 99.0
100								
105								
110								
115								
120								
125								

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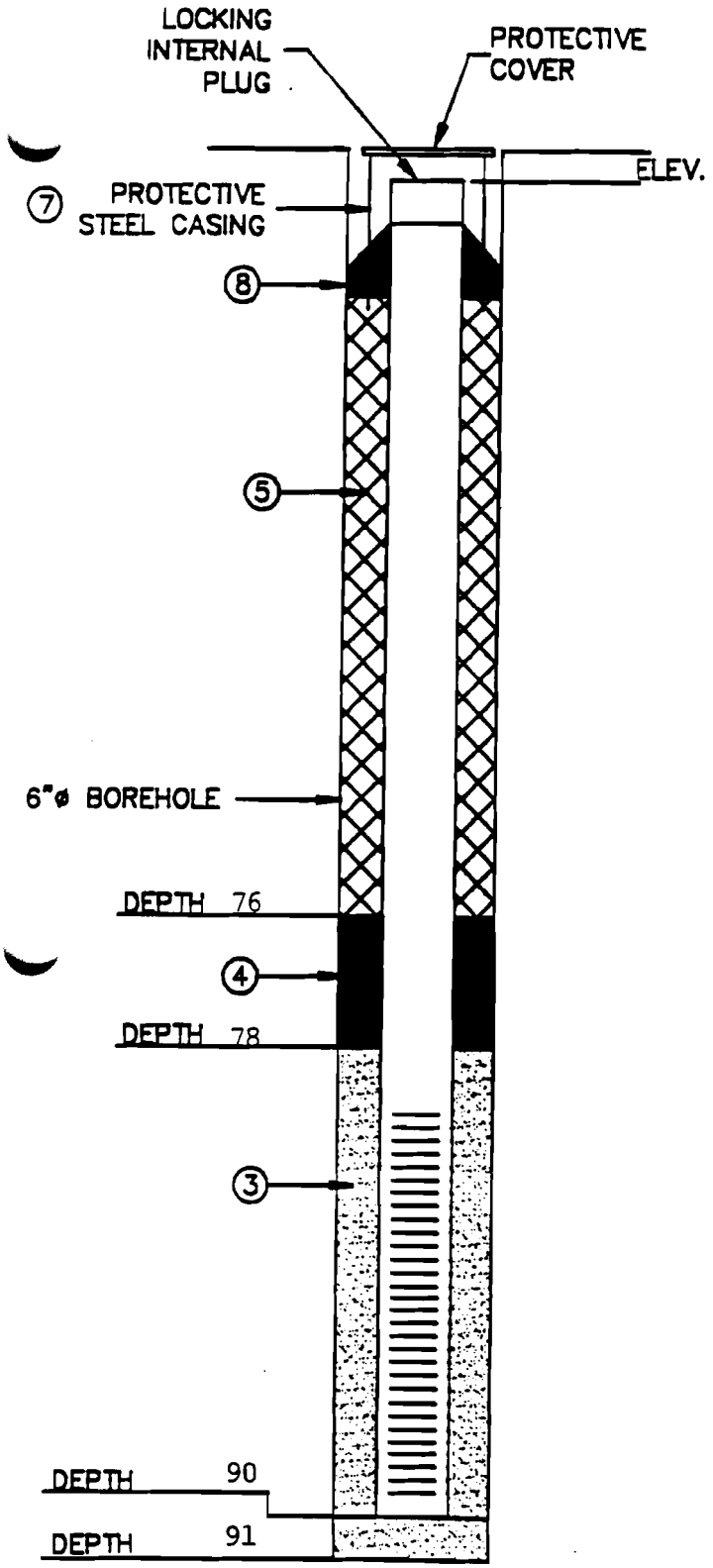


MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 8-12-92 WELL No. 2XD

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 80 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Pellets

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

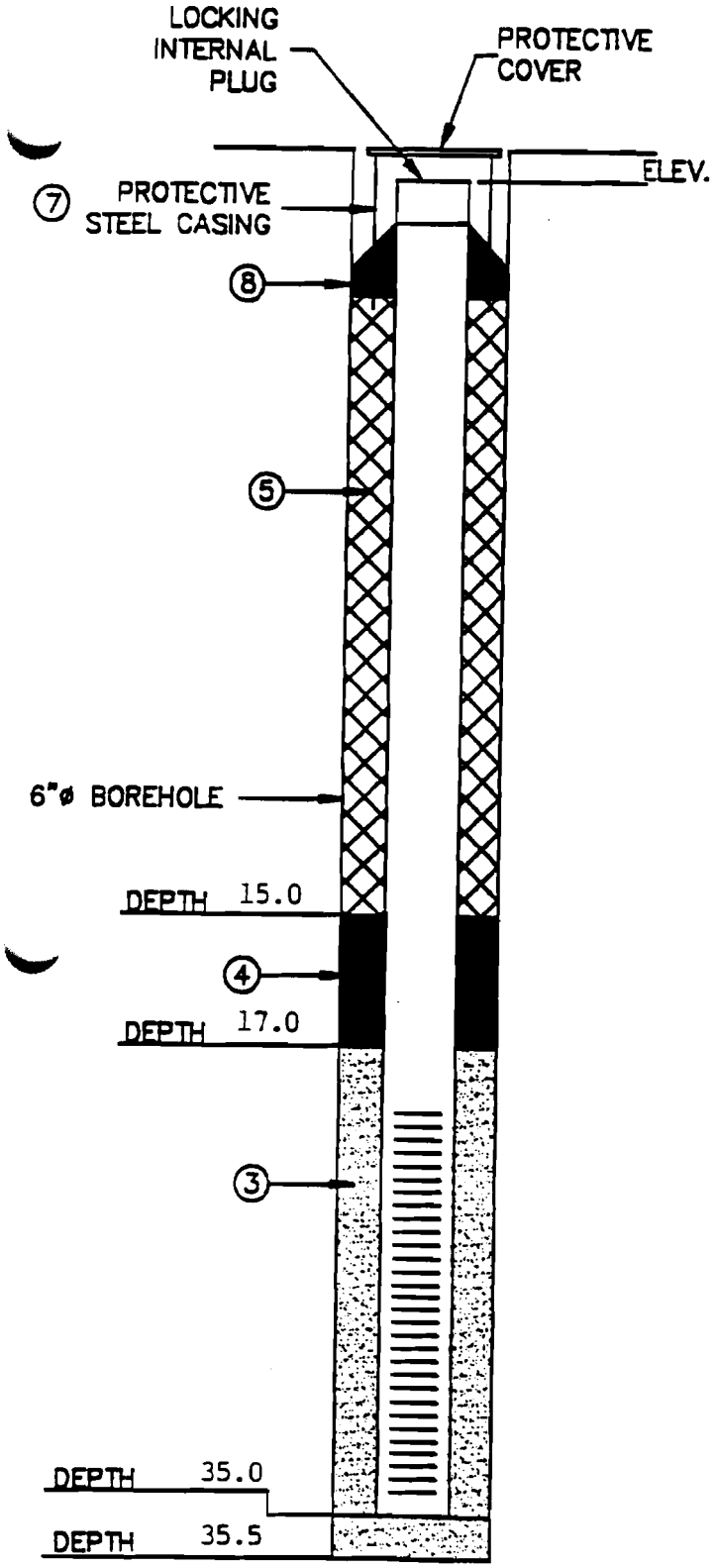
10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS

* FROM TOP OF WELL CASING

WELLCONS
092392



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 8-13-92 WELL No. 8S

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 15.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 20 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN _____

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Pellets

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

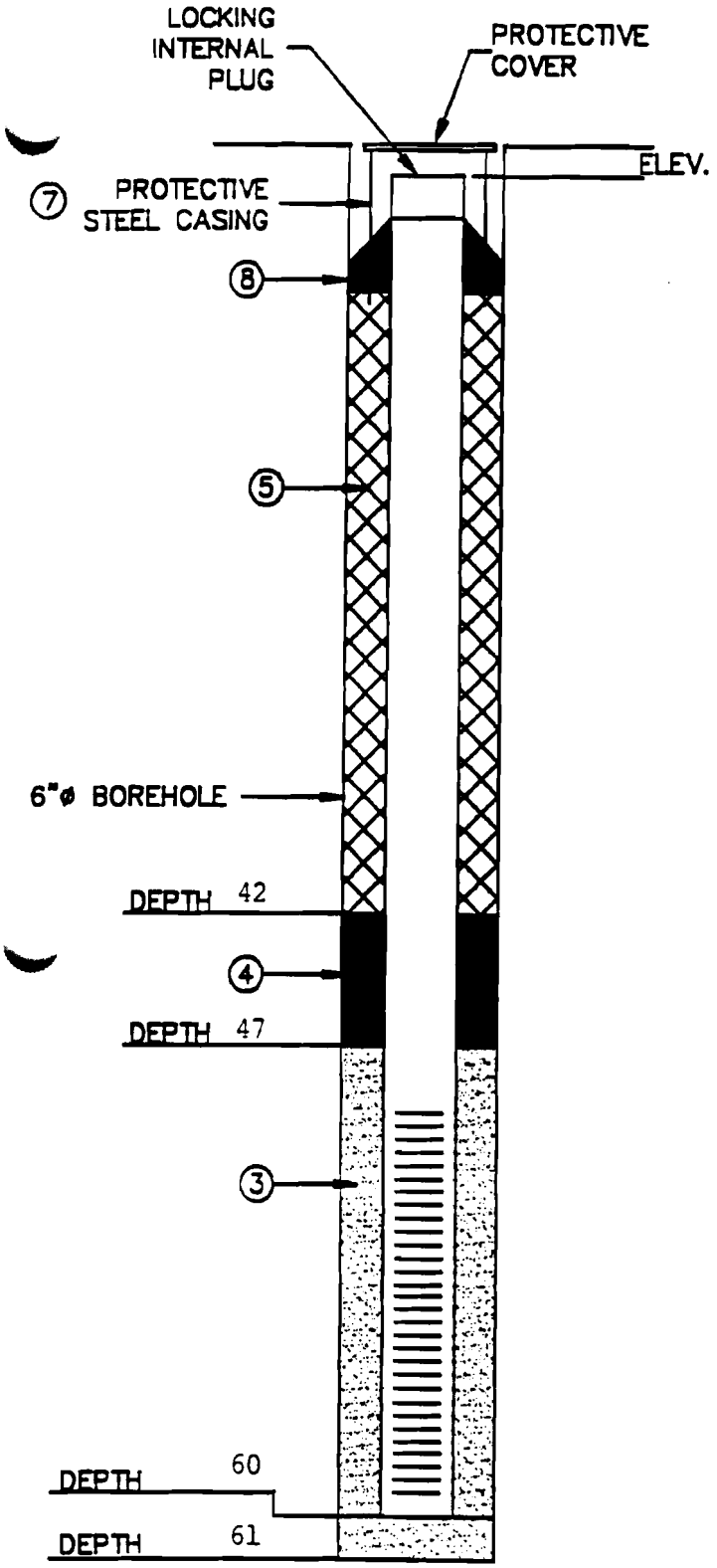
10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
8-18-92	0730	24.15	

* FROM TOP OF WELL CASING

WELLCONS
092392



WELLCONS
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MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 8-13-92 WELL No. 8I

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 50 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Pellets

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

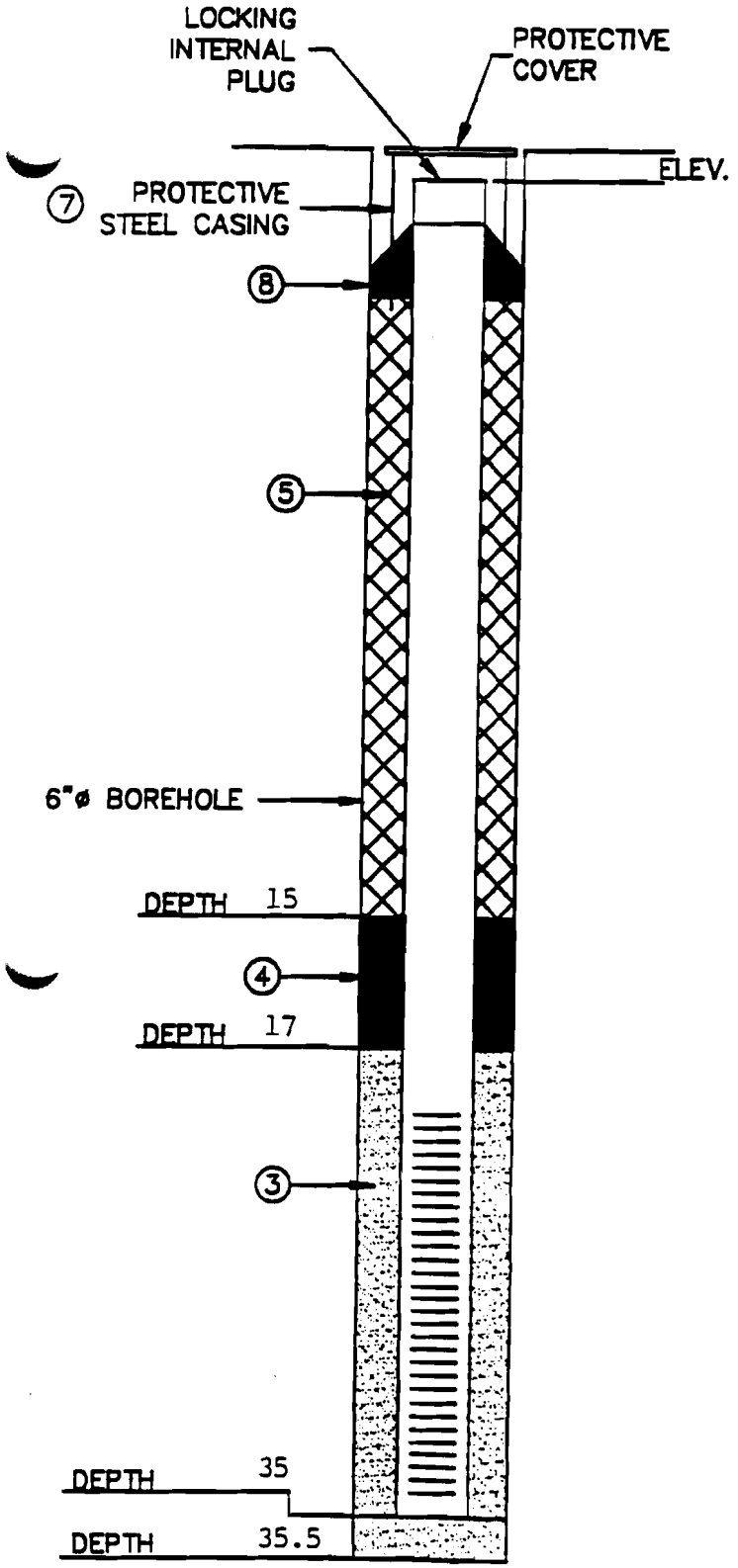
9.) DRILLING METHOD Hollow Stem Auger

10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
8-18-92	0745	23.85	

* FROM TOP OF WELL CASING



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MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-02.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 8-14-92 WELL No. 9S

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 15.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 20 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Pellets

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None.

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

10.) ADDITIVES USED (IF ANY) None.

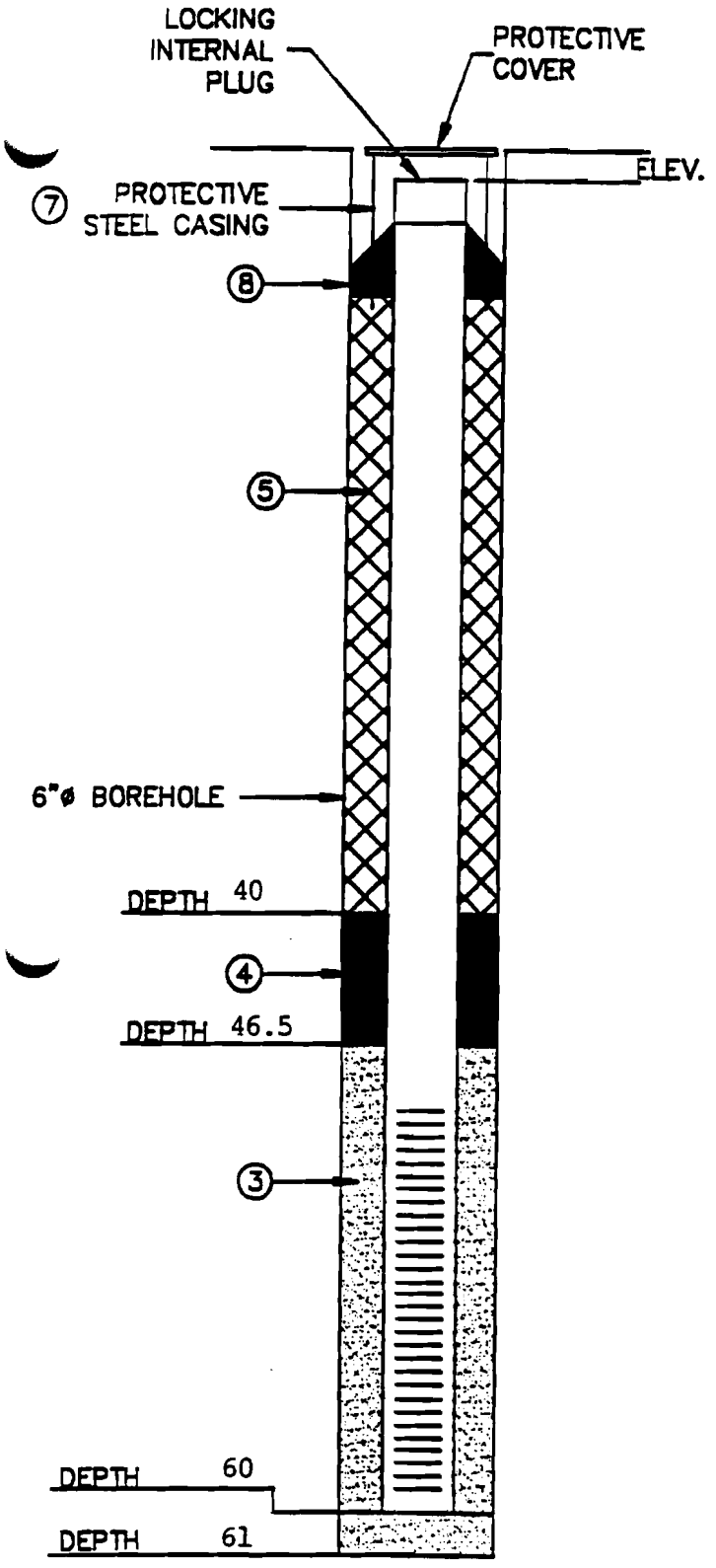
WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
8-18-92	0700	25.52	

* FROM TOP OF WELL CASING

WELLCONS
092392

eder associates consulting engineers, p.c.



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 8-14-92 WELL No. 9I

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 50 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Pellets

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

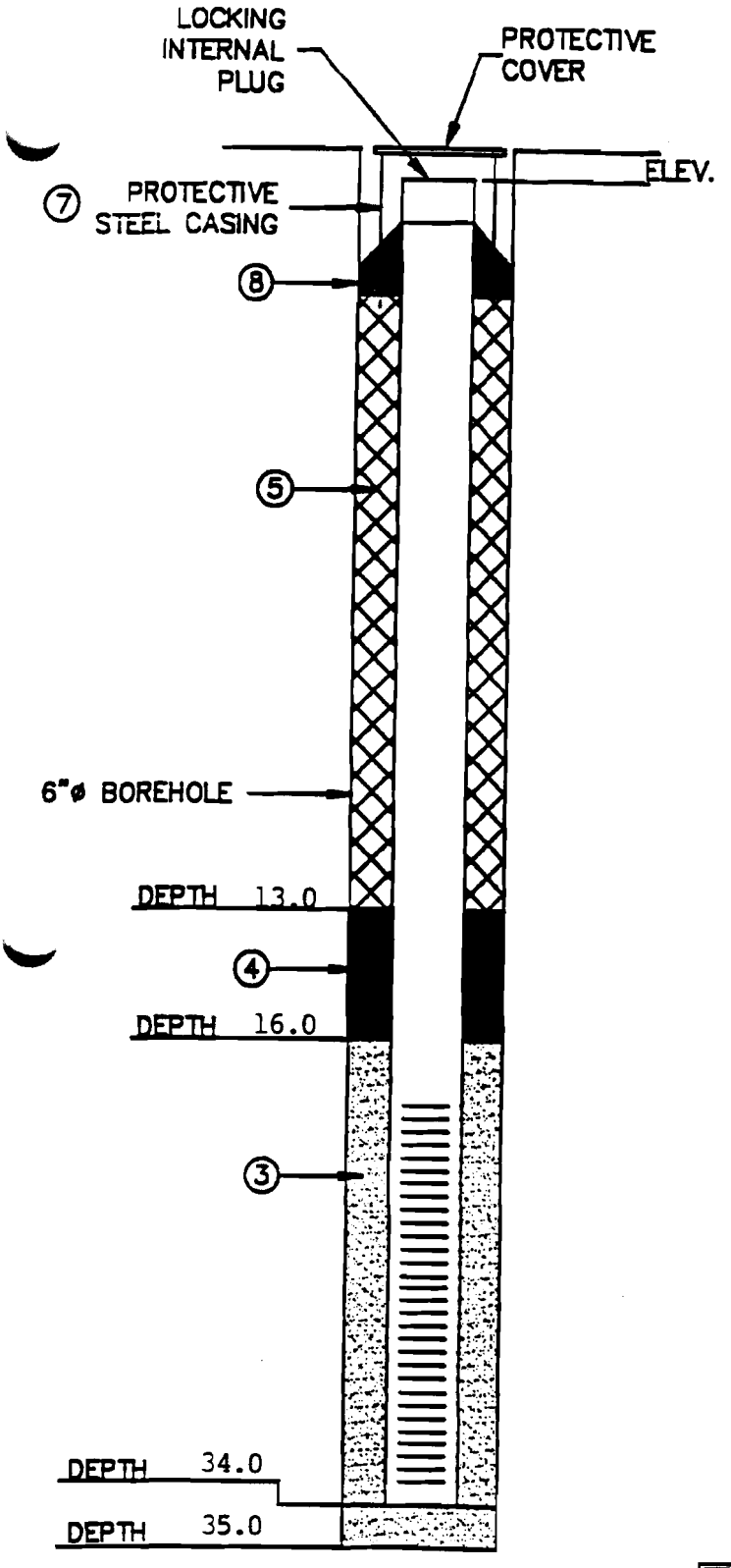
10.) ADDITIVES USED (IF ANY) None.

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
8-18-92	0715	25.47	

* FROM TOP OF WELL CASING

WELLCONS
092392



eder associates consulting engineers, p.c.

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 10-19-92 WELL No. 10 S

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 15.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 19.0 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

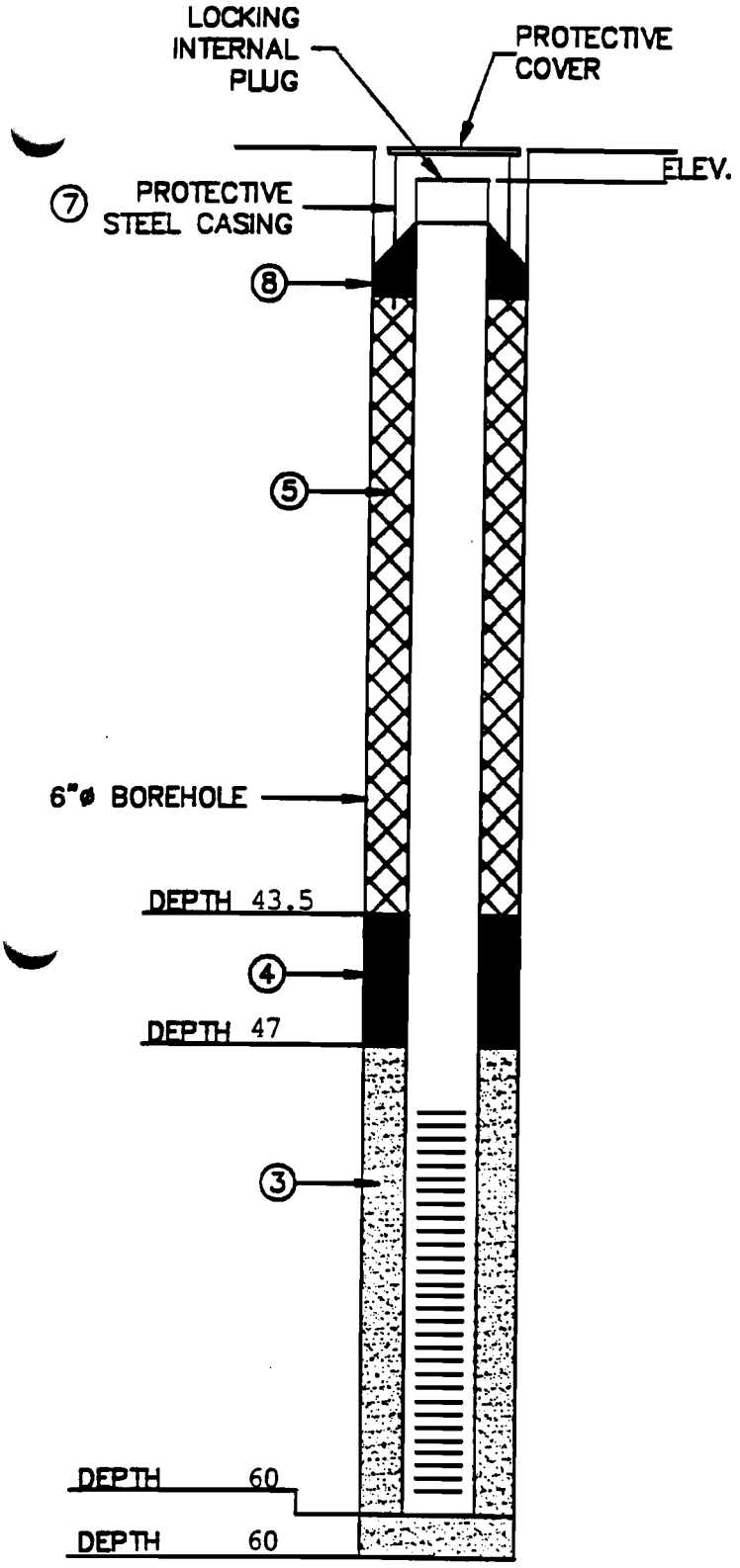
10.) ADDITIVES USED (IF ANY) None.

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
10-21-92	1300	25.10	Before Development

*FROM TOP OF WELL CASING

WELLCONS
092392



eder associates consulting engineers, p.c.

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 10-19-92 WELL No. 10 I

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 50.0 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN _____

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

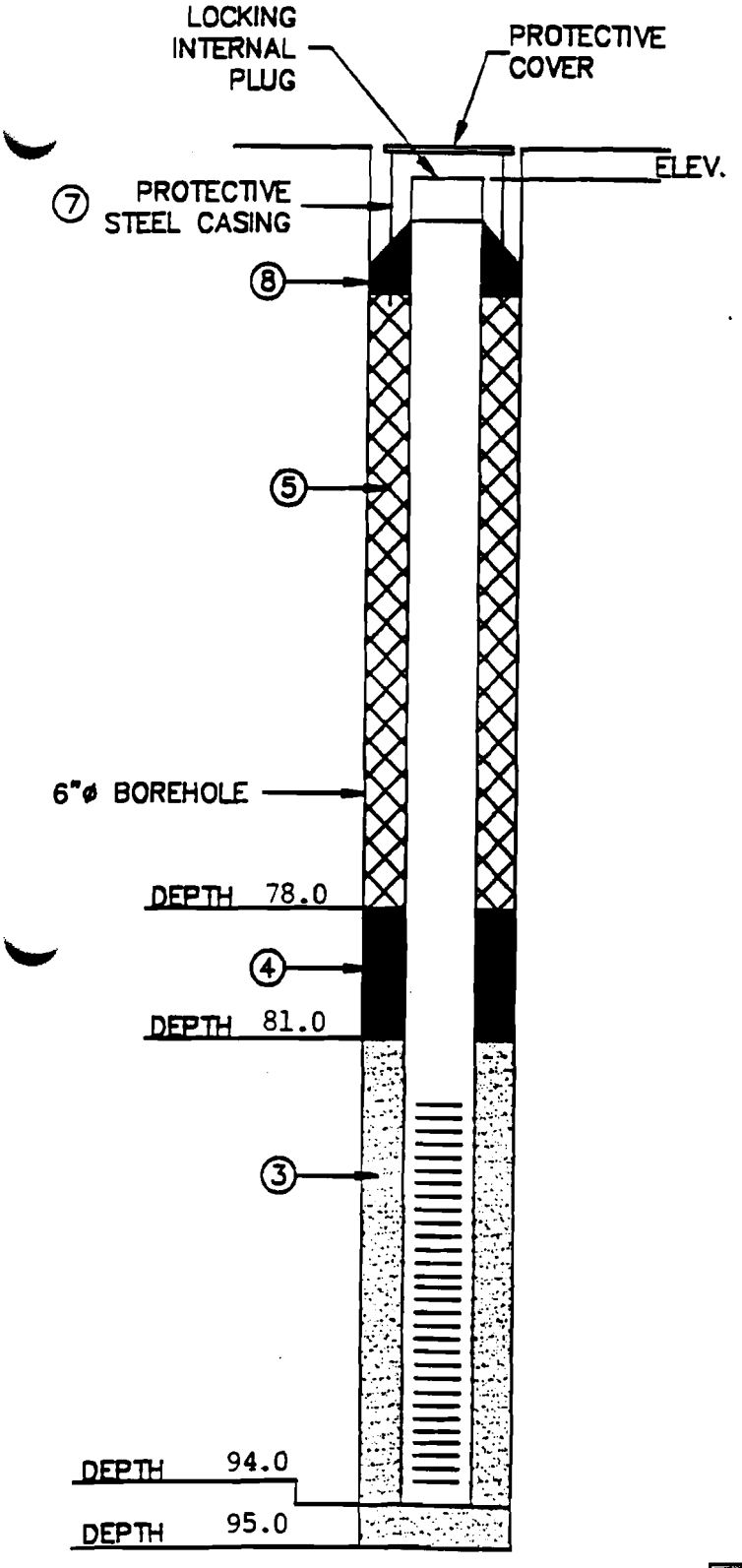
10.) ADDITIVES USED (IF ANY) None.

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
10-21-92	1310	25.25	Before Development

*FROM TOP OF WELL CASING

WELLCONS
092392



MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 10-20-92 WELL No. 10 D

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 84.0 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN _____

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

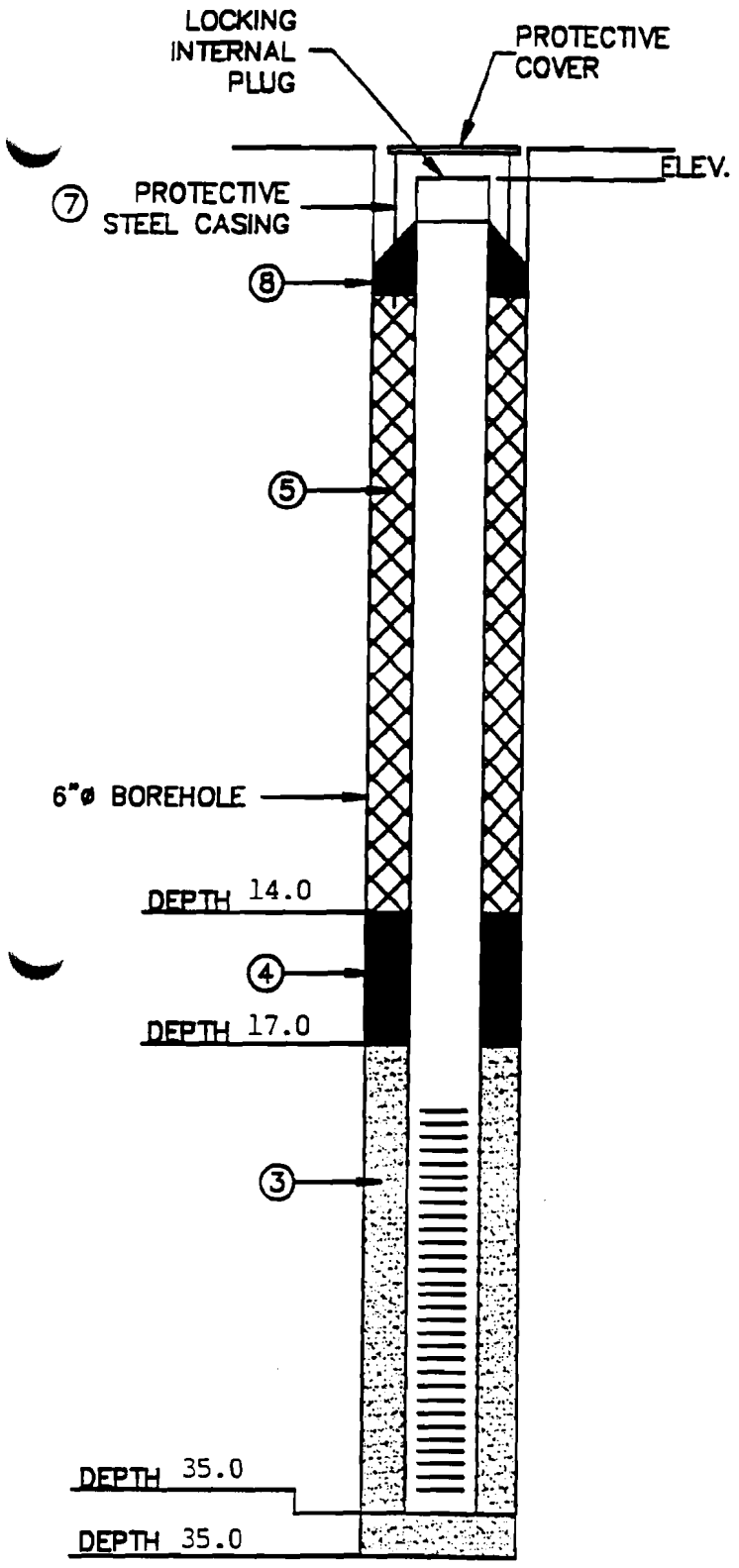
10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
10-21-92	1320	25.00	Before Development

*FROM TOP OF WELL CASING

WELLCONS
092392



eder associates consulting engineers, p.c.

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 10-28-92 WELL No. 11 S

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 15.0 ft

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 20.0 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED__

3.) TYPE OF BACKFILL AROUND SCREEN _____

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

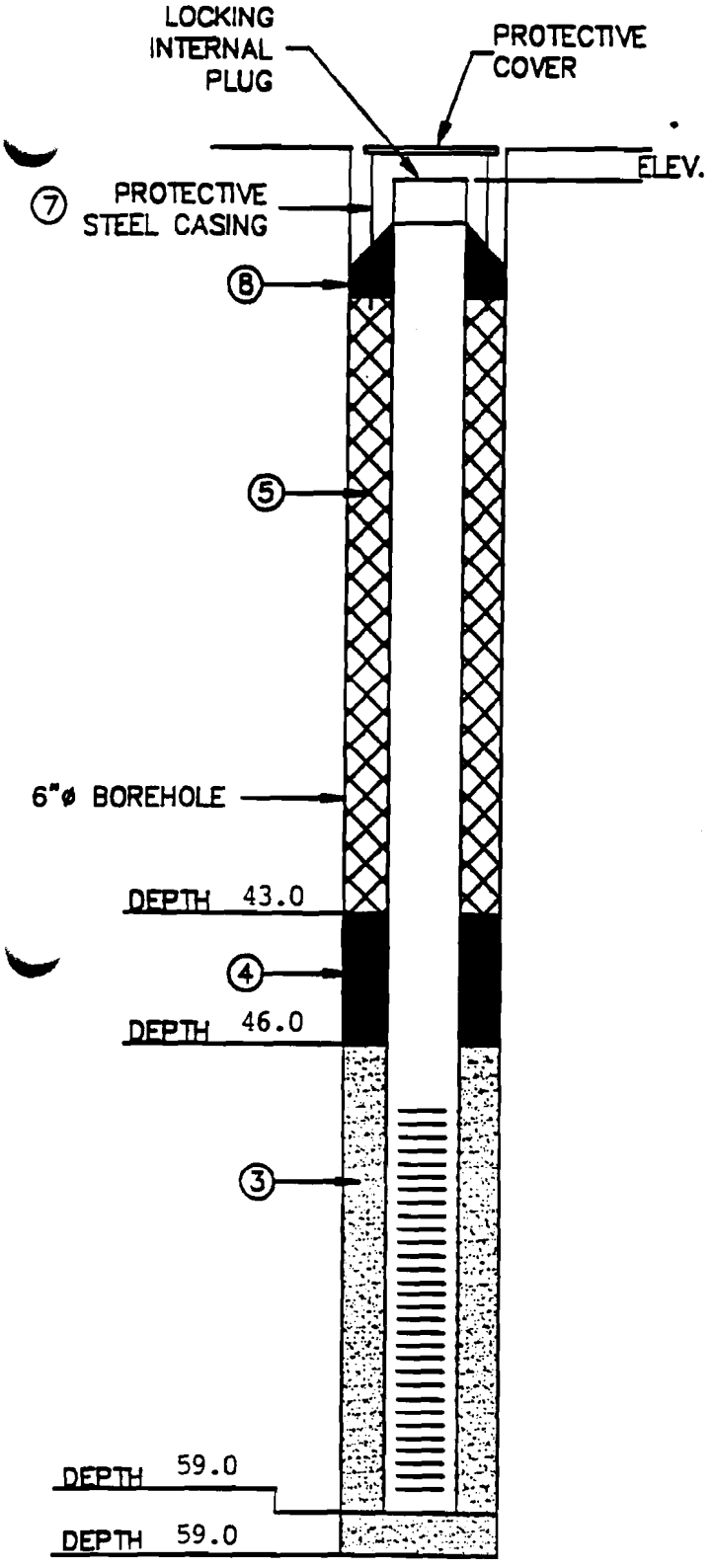
10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
10-28-92	1058	19.22	

* FROM TOP OF WELL CASING

WELLCONS
092392



eder associates consulting engineers, p.c.

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 10-27-92 WELL No. 11 I

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 49.0 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

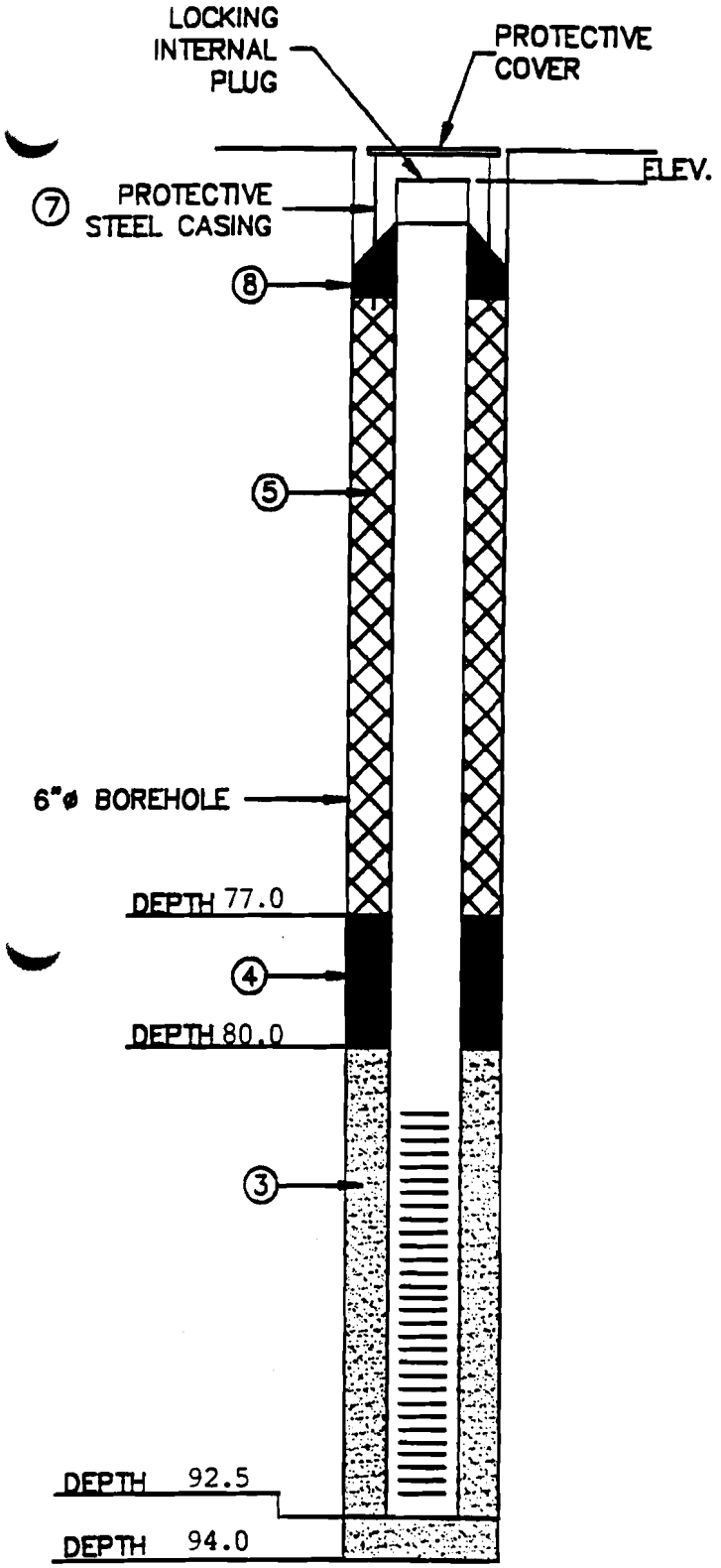
10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
10-28-92	1011	18.98	

* FROM TOP OF WELL CASING

WELLCONS
092392



eder associates consulting engineers, p.c.

MONITORING WELL CONSTRUCTION INFORMATION

JOB No. 961-01.2 CLIENT Fairchild

LOCATION Old Recharge Basin

DATE 11-03-92 WELL No. 11 D

HYDROGEOLOGIST Kevin McHale

DRILLING CONTRACTOR ADT

1.) SCREEN TYPE Stainless Steel

SLOTTED LENGTH 10.0 ft.

SLOT SIZE 0.010 inches

2.) SOLID PIPE TYPE PVC

SOLID PIPE LENGTH 82.5 ft.

PIPE & SCREEN DIA. 4.0 In.

JOINT TYPE-SLIP/GLUED _____ THREADED ✓

3.) TYPE OF BACKFILL AROUND SCREEN _____

#2 Morie Sand

4.) TYPE OF LOWER SEAL (IF INSTALLED)

Bentonite Slurry

5.) TYPE OF BACKFILL Bentonite/Cement Grout

HOW INSTALLED Tremie Pipe

6.) TYPE OF SURFACE SEAL (IF INSTALLED)

None

7.) PROTECTIVE CASING - YES ✓ NO _____

LOCKING CAP YES ✓ NO _____

8.) CONCRETE SEAL - YES ✓ NO _____

9.) DRILLING METHOD Hollow Stem Auger

10.) ADDITIVES USED (IF ANY) None

WATER LEVEL CHECKS*

DATE	TIME	DEPTH TO WATER	REMARKS
11-04-92	0900	19.05	

*FROM TOP OF WELL CASING

WELLCONS
092392

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 1S / Fairchild

SAMPLING POINT Monitoring Well #1S

SAMPLE I.D. No. FRC-1S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1220

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.60 FT. BELOW MEASURING POINT 77.90

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 37.87 FT. BELOW MEASURING POINT 77.90

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 6.5

TEMPERATURE 52 °F. Bottle set #27

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /3/2/93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.5	6.5	6.5
Cond.	400	400	400
T°F	50	52	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 1D / Fairchild

SAMPLING POINT Monitoring Well #1D

SAMPLE I.D. No. FRC-1D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1238

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.73 FT. BELOW MEASURING POINT 77.96

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 58.55 FT. BELOW MEASURING POINT 77.96

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 10

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 6.7

TEMPERATURE 55 °F. Bottle Set #28

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.6	6.6	6.7
Cond.	400	400	400
T°C	53	54	55

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 2S / Fairchild

SAMPLING POINT Monitoring Well #2S

SAMPLE I.D. No. FRC-2S-02-D; FRC-2S-02-MS, FRC-2S-02-MSD
FRC-2S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1630

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.57 FT. BELOW MEASURING POINT 76.78

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 37.83 FT. BELOW MEASURING POINT 76.78

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY --- pH 7.4

TEMPERATURE 53 °F. Bottle set #40; Dup = 41; MS = 52; MSD = 53

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.9	7.3	7.4
Cond.	---	---	---
T°F	54	54	53

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 2D / Fairchild

SAMPLING POINT Monitoring Well #2D

SAMPLE I.D. No. FRC-2D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3-1-93 TIME 1645

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.62 FT. BELOW MEASURING POINT 76.83

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 58.59 FT. BELOW MEASURING POINT 76.83

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9.9

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY --- pH 7.3

TEMPERATURE 53 °F. Bottle set #6

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.4	7.5	7.3
Cond.	---	---	---
T°F	53	53	53

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 2XD / Fairchild

SAMPLING POINT Monitoring Well #2XD

SAMPLE I.D. No. FRC-2XD-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1545

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.81 FT. BELOW MEASURING POINT 75.99

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 88.40 FT. BELOW MEASURING POINT 75.99

SAMPLING INFORMATION

PURGING METHOD Submersible pump

PURGING RATE 3-4 GAL/MIN. PURGING TIME 39 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 126.0

WELL DRAWDOWN/RECOVERY Fair Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 600 µs pH 7.3

TEMPERATURE 51 °F.

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
	7.1	7.3	7.3
Cond.	700	600	600
T°C	51	50	51

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 3S / Fairchild

SAMPLING POINT Monitoring Well #3S

SAMPLE I.D. No. FRC-3S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1420

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.14 FT. BELOW MEASURING POINT 75.82

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.85 FT. BELOW MEASURING POINT 75.82

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6.6

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 7.0

TEMPERATURE 50 °F.

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.9	7.0	7.0
Cond.	100	100	100
°F	49	50	50

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480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 3D / Fairchild

SAMPLING POINT Monitoring Well #3D

SAMPLE I.D. No. FRC-3D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1430

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.42 FT. BELOW MEASURING POINT 76.09

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.35 FT. BELOW MEASURING POINT 76.09

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 10.2

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Cloudy

ODORS OBSERVED None

CONDUCTIVITY 300 µs pH 7.0

TEMPERATURE 51 °F.

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.9	7.0	7.0
Cond.	300	300	300
T°F	50	51	51

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 4S / Fairchild

SAMPLING POINT Monitoring Well #4S

SAMPLE I.D. No. FRC-4S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1245

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.60 FT. BELOW MEASURING POINT 75.58

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.77 FT. BELOW MEASURING POINT 75.58

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 2.2

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 7.1

TEMPERATURE 52 °F. Bottle set #26

SAMPLES ANALYZED FOR TCL-VOCs (524.2), SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.0	6.8	7.1
Cond.	100	100	100
T°C	52	52	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 4D / Fairchild

SAMPLING POINT Monitoring Well #4D

SAMPLE I.D. No. FRC-4D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1300

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.64 FT. BELOW MEASURING POINT 75.52

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.30 FT. BELOW MEASURING POINT 75.52

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 3.4

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 300 µs pH 6.8

TEMPERATURE 52 °F. Bottle set #11

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.6	6.8	6.8
Cond.	200	300	300
T°F	52	51	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 5S / Fairchild

SAMPLING POINT Monitoring Well #5S

SAMPLE I.D. No. FRC-5S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1420

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 19.52 FT. BELOW MEASURING POINT 74.03

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.91 FT. BELOW MEASURING POINT 74.30

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 600 µs pH 6.5

TEMPERATURE 57 °F. Bottle set #36

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.1	6.3	6.5
Cond.	400	600	---
T°F	56	56	57

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 5D/Fairchild

SAMPLING POINT Monitoring Well #5D

SAMPLE I.D. No. FRC-5D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 14:45

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 19.32 FT. BELOW MEASURING POINT 73.75

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.76 FT. BELOW MEASURING POINT 73.75

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 12

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 us pH 6.3

TEMPERATURE 57 °F. Bottle Set #36

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, PEST/PCBs; TAL Metals (Total & Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3/2/93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.2	6.2	6.3
Cond.	200	200	---
T°F	54	56	57

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 6S / Fairchild

SAMPLING POINT Monitoring Well #6S

SAMPLE I.D. No. FRC-6S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1845

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 12.21 FT. BELOW MEASURING POINT 65.60

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 35.90 FT. BELOW MEASURING POINT 65.60

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 11.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY --- pH 5.9

TEMPERATURE 51 °F. Bottle set #24

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.2	6.1	5.9
Cond.	---	---	---
T°F	51	50	51

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 6D / Fairchild

SAMPLING POINT Monitoring Well #6D

SAMPLE I.D. No. FRC-6D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1930

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 11.95 FT. BELOW MEASURING POINT 65.28

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 57.45 FT. BELOW MEASURING POINT 65.28

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 13.5

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY --- pH 5.9

TEMPERATURE 52 °F. Bottle set #39

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	5.9	5.9	5.9
Cond.	---	---	---
T°F	52	52	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 7S / Fairchild

SAMPLING POINT Monitoring Well #7S

SAMPLE I.D. No. FRC-7S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1105

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 27.10 FT. BELOW MEASURING POINT 80.29

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.95 FT. BELOW MEASURING POINT 80.29

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 5.3

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.3

TEMPERATURE 50 °F. Bottle set #1

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	5.8	6.3
Cond.	200	200	200
T°C	49	50	50

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-0.3

WELL No./OWNER 7D / Fairchild

SAMPLING POINT Monitoring Well #7D

SAMPLE I.D. No. FRC-7D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1055

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 26.82 FT. BELOW MEASURING POINT 80.05

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.25 FT. BELOW MEASURING POINT 80.05

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9.6

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 5.9

TEMPERATURE 51 °F. Bottle set #2

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 3-2-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.6	6.5	5.9
Cond.	300	200	200
T°F	47	50	51

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 8S / Fairchild

SAMPLING POINT Monitoring Well #8S

SAMPLE I.D. No. FRC-8S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/25/93 TIME 1215

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.82 FT. BELOW MEASURING POINT 75.77

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 34.80 FT. BELOW MEASURING POINT 75.77

Sample set 14

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 4 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 20.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slight rust color

ODORS OBSERVED None

CONDUCTIVITY 900 µs pH 6.8

TEMPERATURE 52 °F. Bottle set #14

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	6.8	6.8
Cond.	900	900	900
T°F	52	52	52

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 7S / Fairchild

SAMPLING POINT Monitoring Well #7S

SAMPLE I.D. No. FRC-7S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 0900

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 27.98 FT. BELOW MEASURING POINT 80.29

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.95 FT. BELOW MEASURING POINT 80.29

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 5.3

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.0

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.2	6.1	6.0
Cond.	100	200	200
T°C	58	57	58

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 1D / Fairchild

SAMPLING POINT Monitoring Well #1D

SAMPLE I.D. No. FRC-1D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 0800

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.54 FT. BELOW MEASURING POINT 77.96

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 58.55 FT. BELOW MEASURING POINT 77.96

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 10

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.3

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.3	6.3	6.3
Cond.	500	500	500
T°C	58	57	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 2S / Fairchild

SAMPLING POINT Monitoring Well #2S

SAMPLE I.D. No. FRC-2S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 2015

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.50 FT. BELOW MEASURING POINT 76.78

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 37.83 FT. BELOW MEASURING POINT 76.78

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 1,000 µs pH 6.8

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	6.8	6.8
Cond.	900	900	1,000
T°F	56	55	59

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 2D / Fairchild

SAMPLING POINT Monitoring Well #2D

SAMPLE I.D. No. FRC-2D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 2300

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.53 FT. BELOW MEASURING POINT 76.83

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 58.59 FT. BELOW MEASURING POINT 76.83

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9.9

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 700 µs pH 7.2

TEMPERATURE 57 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.0	7.2	7.2
Cond.	600	600	700
T°F	57	52	57

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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519 Pleasant Home Road, Augusta, GA 30907
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 2XD / Fairchild

SAMPLING POINT Monitoring Well #2XD

SAMPLE I.D. No. FRC-2XD-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1600

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.72 FT. BELOW MEASURING POINT 75.99

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 88.40 FT. BELOW MEASURING POINT 75.99

SAMPLING INFORMATION

PURGING METHOD 4" Submersible pump

PURGING RATE 5 GAL/MIN. PURGING TIME 26 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 126.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.9

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.9	6.9	6.9
Cond.	500	500	500
T°C	56	57	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 3S / Fairchild

SAMPLING POINT Monitoring Well #3S

SAMPLE I.D. No. FRC-3S-01 SAMPLED BY KM, AG, TB

DATE SAMPLED 12/2/92 TIME 1015

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.01 FT. BELOW MEASURING POINT 75.82

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.85 FT. BELOW MEASURING POINT 75.82

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6.6

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Slightly cloudy brown

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 6.1

TEMPERATURE 61 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.3	6.1	6.1
Cond.	100	100	100
T°F	60	61	61

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 3D / Fairchild

SAMPLING POINT Monitoring Well #3D

SAMPLE I.D. No. FRC-3D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1035

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.31 FT. BELOW MEASURING POINT 76.09

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.35 FT. BELOW MEASURING POINT 76.09

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 10.2

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 6.7

TEMPERATURE 59 °F. _____

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.6	6.7	6.7
Cond.	400	400	400
T°F	60	58	59

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 4S / Fairchild

SAMPLING POINT Monitoring Well #4S

SAMPLE I.D. No. FRC-4S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 0825

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.54 FT. BELOW MEASURING POINT 75.58

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.77 FT. BELOW MEASURING POINT 75.58

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 2.2

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 5.9

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	5.9	5.9	5.9
Cond.	100	100	100
T°C	58	58	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
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326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 4D / Fairchild

SAMPLING POINT Monitoring Well #4D

SAMPLE I.D. No. FRC-4D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 0915

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.53 FT. BELOW MEASURING POINT 75.52

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.30 FT. BELOW MEASURING POINT 75.52

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 3.4

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 300 µs pH 6.2

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.1	6.2	6.2
Cond.	300	300	300
T°F	58	58	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 5S / Fairchild

SAMPLING POINT Monitoring Well #5S

SAMPLE I.D. No. FRC-5S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1730

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 20.25 FT. BELOW MEASURING POINT 74.03

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 38.91 FT. BELOW MEASURING POINT 74.30

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 600 µs pH 6.3

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.4	6.4	6.3
Cond.	700	600	600
T°F	58	58	59

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 5D / Fairchild

SAMPLING POINT Monitoring Well #5D

SAMPLE I.D. No. FRC-5D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1800

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 20.13 FT. BELOW MEASURING POINT 73.75

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.76 FT. BELOW MEASURING POINT 73.75

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 12

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 6.2

TEMPERATURE 59 °F. _____

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.2	6.2	6.2
Cond.	100	100	100
T°C	59	59	59

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 6S / Fairchild

SAMPLING POINT Monitoring Well #6S

SAMPLE I.D. No. FRC-6S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1200

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 13.06 FT. BELOW MEASURING POINT 65.60

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 35.90 FT. BELOW MEASURING POINT 65.60

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 11.0

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 5.3

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	5.4	5.3	5.3
Cond.	200	200	200
T°F	57	58	58

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480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 6D / Fairchild

SAMPLING POINT Monitoring Well #6D

SAMPLE I.D. No. FRC-6D-01; FRC-6D-Dup; FRC-6D-01-MS, FRC-6D-01-MSD SAMPLED BY KM, AG, KB

DATE SAMPLED 12/10/92 TIME 1500

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 12.96 FT. BELOW MEASURING POINT 65.28

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 57.45 FT. BELOW MEASURING POINT 65.28

SAMPLING INFORMATION

PURGING METHOD Peristaltic Pump

PURGING RATE 0.25 GAL/MIN. PURGING TIME 54 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 13.5

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 300 µs pH 5.5

TEMPERATURE _____ °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-10-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	5.6	5.6	5.5
Cond.	300	300	300

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-0.3

WELL No./OWNER 7D / Fairchild

SAMPLING POINT Monitoring Well #7D

SAMPLE I.D. No. FRC-7D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 0930

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 27.70 FT. BELOW MEASURING POINT 80.05

WELL DIAMETER 1.5 INCHES

TOTAL WELL DEPTH 59.25 FT. BELOW MEASURING POINT 80.05

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 9.6

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.0

TEMPERATURE 57 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.0	6.0	6.0
Cond.	200	200	200
T°F	57	58	57

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 8S / Fairchild

SAMPLING POINT Monitoring Well #8S

SAMPLE I.D. No. FRC-8S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1215

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.77 FT. BELOW MEASURING POINT 75.77

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 34.80 FT. BELOW MEASURING POINT 75.77

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 4 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 20.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly cloudy brown

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.7

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	6.7	6.7
Cond.	500	600	500
T°F	59	59	59

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 8I / Fairchild

SAMPLING POINT Monitoring Well #8I

SAMPLE I.D. No. FRC-8I-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/2/92 TIME 1140

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.45 FT. BELOW MEASURING POINT 75.45

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.22 FT. BELOW MEASURING POINT 75.45

SAMPLING INFORMATION

PURGING METHOD 4" Submersible pump

PURGING RATE 5 GAL/MIN. PURGING TIME 14 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 69.0

WELL DRAWDOWN/RECOVERY Good

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.7

TEMPERATURE 57 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /12-3-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.8	6.8	6.7
Cond.	500	500	500
T°C	58	58	57

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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 9S / Fairchild

SAMPLING POINT Monitoring Well #9S

SAMPLE I.D. No. FRC-9S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1530

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.58 FT. BELOW MEASURING POINT 77.50

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 34.80 FT. BELOW MEASURING POINT 77.50

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 4 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 18.5

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 5.9

TEMPERATURE 57 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.1	6.0	5.9
Cond.	100	100	100
T°F	64	66	57

T°F after 1 and 2 volumes may indicate a pump overheating during purging

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 9I / Fairchild

SAMPLING POINT Monitoring Well #9I

SAMPLE I.D. No. FRC-9I-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1500

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.67 FT. BELOW MEASURING POINT 77.60

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.90 FT. BELOW MEASURING POINT 77.60

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 14 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 68.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 900 µs pH 6.6

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	6.6	6.6
Cond.	900	900	900
T°F	59	59	59

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 10S / Fairchild

SAMPLING POINT Monitoring Well #10S

SAMPLE I.D. No. FRC-10S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1815

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.74 FT. BELOW MEASURING POINT 74.37

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 33.75 FT. BELOW MEASURING POINT 74.37

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 4 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 18.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Cloudy brown

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.4

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.7	6.4	6.4
Cond.	500	500	500
T°C	58	59	59

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 10I / Fairchild

SAMPLING POINT Monitoring Well #10I

SAMPLE I.D. No. FRC-10I-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1730

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.70 FT. BELOW MEASURING POINT 74.81

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 59.20 FT. BELOW MEASURING POINT 74.81

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 14 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 69

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.6

TEMPERATURE 55 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.9	6.7	6.6
Cond.	200	200	200
T°F	51	51	55

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 10D / Fairchild

SAMPLING POINT Monitoring Well #10D

SAMPLE I.D. No. FRC-10-D-01-DUP; FRC-10D-01-MS; FRC-10D-01-MSD
FRC-10D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1700

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.29 FT. BELOW MEASURING POINT 74.70

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 92.07 FT. BELOW MEASURING POINT 74.70

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 27 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 135

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.8

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.5	6.6	6.8
Cond.	200	200	200
T°F	55	58	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 11S / Fairchild

SAMPLING POINT Monitoring Well #11S

SAMPLE I.D. No. FRC-11S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/4/92 TIME 0100

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 18.74 FT. BELOW MEASURING POINT 72.53

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 34.85 FT. BELOW MEASURING POINT 72.53

SAMPLING INFORMATION

PURGING METHOD 4" submersible pump

PURGING RATE 5 GAL/MIN. PURGING TIME 7 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 32

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 5.9

TEMPERATURE 60 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	5.9	6.1	5.9
Cond.	200	200	200
T°C	61	60	60

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 11D / Fairchild

SAMPLING POINT Monitoring Well #11D

SAMPLE I.D. No. FRC-11D-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 2330

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 18.88 FT. BELOW MEASURING POINT 72.61

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 92.03 FT. BELOW MEASURING POINT 72.61

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 29 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 145

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 5.7

TEMPERATURE 56 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.4	6.0	5.7
Cond.	200	200	200
T°F	56	57	56

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480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 11I/ Fairchild

SAMPLING POINT Monitoring Well #11I

SAMPLE I.D. No. FRC-11I-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/4/92 TIME 0030

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 18.54 FT. BELOW MEASURING POINT 72.31

WELL DIAMETER 4.0 INCHES 48.3 x 3

TOTAL WELL DEPTH 58.61 FT. BELOW MEASURING POINT 72.31

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 16 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 79.3

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 5.9

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.0	5.9	5.9
Cond.	200	200	200
T°F	59	57	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER MW12S / Fairchild

SAMPLING POINT Monitoring Well #MW-12S

SAMPLE I.D. No. FRC-MW-12S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 1300

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 14.42 FT. BELOW MEASURING POINT 66.40

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 20.0 FT. BELOW MEASURING POINT 66.40

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 3

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 7.3

TEMPERATURE 58 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.2	7.3	7.3
Cond.	500	400	400
T°C	58	58	58

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 8I / Fairchild

SAMPLING POINT Monitoring Well #8I

SAMPLE I.D. No. FRC-8I-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/25/93 TIME

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.51 FT. BELOW MEASURING POINT 75.45

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.22 FT. BELOW MEASURING POINT 75.45

SAMPLING INFORMATION

PURGING METHOD Submersible pump

PURGING RATE 5 GAL/MIN. PURGING TIME 14 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 69.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly turbid

ODORS OBSERVED None

CONDUCTIVITY 600 µs pH 6.9

TEMPERATURE 52 °F. Bottle set #13

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.8	6.9	6.9
Cond.	600	500	600
T°C	52	52	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 9S / Fairchild

SAMPLING POINT Monitoring Well #9S

SAMPLE I.D. No. FRC-9S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2-25-93 TIME 1015

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.70 FT. BELOW MEASURING POINT 77.50

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 34.80 FT. BELOW MEASURING POINT 77.50

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 3 GAL/MIN. PURGING TIME 7 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 18.5

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 6.3

TEMPERATURE 52 °F. Bottle set #50

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.6	6.3	6.3
Cond.	400	400	400
T°F	51	52	52

T°F after 1 and 2 volumes may indicate a pump overheating during purging

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 9I / Fairchild

SAMPLING POINT Monitoring Well #9I

SAMPLE I.D. No. FRC-9I-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/25/93 TIME 9:45

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 24.80 FT. BELOW MEASURING POINT 77.60

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 59.90 FT. BELOW MEASURING POINT 77.60

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 14 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 68.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 700 µs pH 7.1

TEMPERATURE 51 °F. Bottle set #51

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.3	7.1	7.1
Cond.	600	600	700
T°F	51	51	51

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 10S / Fairchild

SAMPLING POINT Monitoring Well #10S

SAMPLE I.D. No. FRC-10S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1030

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.8 FT. BELOW MEASURING POINT 74.37

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 33.75 FT. BELOW MEASURING POINT 74.37

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 4 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 18.0

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly Turbid

ODORS OBSERVED None

CONDUCTIVITY 400 µs pH 7.2

TEMPERATURE 53 °F. Bottle set #

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.2	7.2	7.2
Cond.	400	400	400
T°C	52	53	53

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 10I / Fairchild

SAMPLING POINT Monitoring Well #10I

SAMPLE I.D. No. FRC-10I-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1000

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.68 FT. BELOW MEASURING POINT 74.70

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 92.07 FT. BELOW MEASURING POINT 74.70

SAMPLING INFORMATION

PURGING METHOD 4" Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 27 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 135

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Slightly turbid

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.5

TEMPERATURE 53 °F. Bottle set #21

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.5	7.6	7.5
Cond.	200	200	200
T°F	52	53	53

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 10D / Fairchild

SAMPLING POINT Monitoring Well #10D

SAMPLE I.D. No. FRC-10D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/26/93 TIME 1100

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 23.36 FT. BELOW MEASURING POINT 74.81

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 59.20 FT. BELOW MEASURING POINT 74.81

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 27 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 135

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Very slightly turbid

ODORS OBSERVED None

CONDUCTIVITY 300 µs pH 7.6

TEMPERATURE 51 °F.

SAMPLES ANALYZED FOR TCL-VOCS, SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.6	7.6	7.6
Cond.	300	300	300
T°F	52	51	50

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER 11S / Fairchild

SAMPLING POINT Monitoring Well #11S

SAMPLE I.D. No. FRC-11S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/24/93 TIME 1435

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 18.05 FT. BELOW MEASURING POINT 72.53

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 34.85 FT. BELOW MEASURING POINT 72.53

SAMPLING INFORMATION

PURGING METHOD Submersible pump

PURGING RATE 5 GAL/MIN. PURGING TIME 7 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 32

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 100 µs pH 6.3

TEMPERATURE 52 °F. Bottle set #017

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/ 2-25-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.1	6.5	6.3
Cond.	100	100	100
T°C	50	51	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
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326 South State Street, Ann Arbor, MI 48104
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427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 11I/ Fairchild

SAMPLING POINT Monitoring Well #11I

SAMPLE I.D. No. FRC-11I-02; FRC-11I-02-D; FRC-11I-02-MS; FRC-11I-02-MSD SAMPLED BY KM, AG, KB

DATE SAMPLED 2/24/93 TIME 1530

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 17.83 FT. BELOW MEASURING POINT 72.31

WELL DIAMETER 4.0 INCHES 48.3 x 3

TOTAL WELL DEPTH 58.61 FT. BELOW MEASURING POINT 72.31

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 16 MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 79.3

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.2

TEMPERATURE 51 °F. Bottle set #7; Dup = 8; MS = 15; MSD = 16

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-25-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.2	6.1	6.2
Cond.	200	200	200
T°F	52	52	51

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 11D / Fairchild

SAMPLING POINT Monitoring Well #11D

SAMPLE I.D. No. FRC-11D-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 2/24/93 TIME 1325

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 18.12 FT. BELOW MEASURING POINT 72.61

WELL DIAMETER 4.0 INCHES

TOTAL WELL DEPTH 92.03 FT. BELOW MEASURING POINT 72.61

SAMPLING INFORMATION

PURGING METHOD Submersible Pump

PURGING RATE 5 GAL/MIN. PURGING TIME 30 MIN.

No. CASING VOLUMES REMOVED: >3 GALLONS: 150

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 6.2

TEMPERATURE 52 °F. Bottle set #018

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-25-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.5	6.6	6.2
Cond.	200	200	200
T°F	52	52	52

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
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9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation #961-01.3

WELL No./OWNER MW12S / Fairchild

SAMPLING POINT Monitoring Well #MW-12S

SAMPLE I.D. No. FRC-MW-12S-02 SAMPLED BY KM, AG, KB

DATE SAMPLED 3/1/93 TIME 1830

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 13.41 FT. BELOW MEASURING POINT 66.40

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 20.0 FT. BELOW MEASURING POINT 66.40

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 3

WELL DRAWDOWN/RECOVERY Good Recovery

SAMPLE APPEARANCE Very Turbid, dark gray color

ODORS OBSERVED Petroleum odor

CONDUCTIVITY _____ pH 7.4

TEMPERATURE 45 °F. Bottle set #23

SAMPLES ANALYZED FOR TCL-VOCS (524.2), SVOCS, PEST/PCBs; TAL Metals (Total and Dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA / 2-27-93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.1	7.2	7.4
Cond.	---	---	---
T°C	46	45	45

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. The Fairchild Corporation Job #961-01.3

WELL No./OWNER 1S / Fairchild

SAMPLING POINT Monitoring Well #1S

SAMPLE I.D. No. FRC-1S-01 SAMPLED BY KM, AG, KB

DATE SAMPLED 12/3/92 TIME 0710

WELL USE Groundwater Monitoring

STATIC WATER ELEV. 25.43 FT. BELOW MEASURING POINT 77.90

WELL DIAMETER 2.0 INCHES

TOTAL WELL DEPTH 37.87 FT. BELOW MEASURING POINT 77.90

SAMPLING INFORMATION

PURGING METHOD Bailer, Dedicated

PURGING RATE _____ GAL/MIN. PURGING TIME _____ MIN.

No. CASING VOLUMES REMOVED: 3 GALLONS: 6.0

WELL DRAWDOWN/RECOVERY _____

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 500 µs pH 6.1

TEMPERATURE 59 °F.

SAMPLES ANALYZED FOR TCL-VOCs, SVOCs, Pest/PCBs; TAL Metals (Total plus dissolved), Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA /12-4-92

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	6.1	6.1	6.1
Cond.	500	400	500
T°F	57	61	59

APPENDIX F

SURFACE WATER SAMPLING LOGS

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
326 South State Street, Ann Arbor, MI 4810
4519 Pleasant Home Road, Augusta, GA 30907
9471 Baymeadows Road, Jacksonville, FL 32256
427 River View Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW1-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1130

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.2

TEMPERATURE 43 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
326 South State Street, Ann Arbor, MI 4810
4519 Pleasant Home Road, Augusta, GA 30907
9471 Baymeadows Road, Jacksonville, FL 32256
427 River View Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE 6 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW1-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1145

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.3

TEMPERATURE 43 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW2-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1400

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.4

TEMPERATURE 43 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
326 South State Street, Ann Arbor, MI 4810
4519 Pleasant Home Road, Augusta, GA 30907
9471 Baymeadows Road, Jacksonville, FL 32256
427 River View Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE 7 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW2-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1430

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.4

TEMPERATURE 43 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW3-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1600

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.4

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: South Pond

DEPTH OF SAMPLE 7.5 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW3-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1630

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.3

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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427 River View Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW4-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1715

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.5

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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8000 Excelsior Drive, Madison, WI 53717
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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: North Pond

DEPTH OF SAMPLE 15 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW4-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1745

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.3

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW5-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1830

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.3

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: North Pond

DEPTH OF SAMPLE 5 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW5-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1900

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.4

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, NY: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW6-01-SUR SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1930

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.4

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

WR1838

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale NY: North Pond

DEPTH OF SAMPLE 9 feet (midway between surface and bottom)

SAMPLE I.D. No. FRC-SW6-01-MID SAMPLED BY KM/MS/KB

DATE SAMPLED 12-7-92 TIME 1945

STATIC WATER ELEV. 52.59 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µs pH 7.3

TEMPERATURE 42 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (total/dissolved), TCL Pest/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate.

LABORATORY/DATE SHIPPED IEA/12-8-92

COMMENTS, LOCATION SKETCH

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW1-02-SUR SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1030

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

EL3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE 8 feet (midway between surface and bottom).

SAMPLE I.D. No. FRC-SW1-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1045

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

EL3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW2-02-SUR SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1130

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.4

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

EL3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE 4 feet (Midway between surface and bottom)

SAMPLE I.D. No. FRC-SW2-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1120

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

L3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW3-02-SUR SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1200

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

EL3162

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: South Pond

DEPTH OF SAMPLE 6 feet (Midway between surface and bottom)

SAMPLE I.D. No. FRC-SW3-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1150

STATIC WATER ELEV. 52.53 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

A 1 ft^2 hole was chopped in the 3 inch thick ice to obtain this sample.

L3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

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9471 Baymeadows Road; Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW4-02-SUR SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1530

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

EL3162

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE 9 feet (Midway between surface and bottom)

SAMPLE I.D. No. FRC-SW4-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1550

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.4

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

EL3162

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW5-02-SUR SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1445

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE 7 feet (Midway between surface and bottom)

SAMPLE I.D. No. FRC-SW5-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1500

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.4

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

'L3162

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SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE Surface

SAMPLE I.D. No. FRC-SW6-02-SUR; FRC-SW6-02-SUR-DUP; FRC-SW6-02-SUR-MS; FRC-SW6-02-SUR-MSD SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1400

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Grab Sampler

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

FL3162

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
326 South State Street, Ann Arbor, MI 4810
4519 Pleasant Home Road, Augusta, GA 30907
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

SURFACE WATER SAMPLING LOG

CLIENT/ PROJECT No. Fairchild Republic Co./961-01.3

LOCATION Old Recharge Basins - Farmingdale, N.Y.: North Pond

DEPTH OF SAMPLE 7 feet (Midway between surface and bottom)

SAMPLE I.D. No. FRC-SW6-02-MID SAMPLED BY Kevin McHale/Keith Butler

DATE SAMPLED 3-2-93 TIME 1345

STATIC WATER ELEV. 53.45 FT. ABOVE MEAN SEA LEVEL

SAMPLING INFORMATION

COLLECTION METHOD Peristaltic Pump

SAMPLE APPEARANCE Slightly Cloudy

ODORS OBSERVED None

CONDUCTIVITY 200 µS pH 7.3

TEMPERATURE 33 °F.

SAMPLES ANALYZED FOR TCL VOCs (EPA Method 524.2), SVOCs, TAL Metals (Total/Dissolved), TCL PEST/PCBs, Cyanide, Alkalinity, Sulfate, Nitrate, Phosphate

LABORATORY/DATE SHIPPED IEA/3-3-93

COMMENTS, LOCATION SKETCH

.3162

APPENDIX G

EAST FARMINGDALE FIRE DEPARTMENT
WELL CONSTRUCTION AND WELL SAMPLING LOGS

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. Fairchild 961-6.1

WELL No./OWNER W-19 East Farmingdale Fire District

SAMPLING POINT W-19

SAMPLE I.D. No. FRC-W19-01 SAMPLED BY A. Giaimo/Karen Savo

DATE SAMPLED 9/17/93 TIME 12:00

WELL USE MW

STATIC WATER ELEV. 22.79 FT. BELOW MEASURING POINT

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 32.10 FT. BELOW MEASURING POINT

SAMPLING INFORMATION

PURGING METHOD 2" submersible pump-purging/dedicated bailer for sampling

PURGING RATE 3 GAL/MIN. PURGING TIME 8 MIN.

No. CASING VOLUMES REMOVED: 3+ GALLONS: 24

WELL DRAWDOWN/RECOVERY Good

SAMPLE APPEARANCE Slightly turbid

ODORS OBSERVED None

CONDUCTIVITY 300 pH 7.7

TEMPERATURE 62 °F.

SAMPLES ANALYZED FOR

LABORATORY/DATE SHIPPED 9/17/93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.9	7.9	7.7
Cond.	300	300	300
T°F	62	63	62

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.
480 Forest Avenue, Locust Valley, NY 11560
8000 Excelsior Drive, Madison, WI 53717
519 Pleasant Home Road, Augusta, GA 30907
326 South State Street, Ann Arbor, MI 48104
9471 Baymeadows Road, Jacksonville, FL 32256
427 Riverview Executive Park, Trenton, NJ 08611

WELL SAMPLING LOG

CLIENT/ PROJECT No. Fairchild 961-6.1

WELL No./OWNER W-21 East Farmingdale Fire District

SAMPLING POINT W-21

SAMPLE I.D. No. FRC-W21-01 SAMPLED BY A. Giaimo/Karen Savo

DATE SAMPLED 9/17/93 TIME 11:00

WELL USE MW

STATIC WATER ELEV. 21.95 FT. BELOW MEASURING POINT

WELL DIAMETER 4 INCHES

TOTAL WELL DEPTH 33.31 FT. BELOW MEASURING POINT

SAMPLING INFORMATION

PURGING METHOD 2" submersible pump-purging/dedicated bailer for sampling

PURGING RATE 3 GAL/MIN. PURGING TIME 7.5 MIN.

No. CASING VOLUMES REMOVED: 3+ GALLONS: 22.5

WELL DRAWDOWN/RECOVERY Good

SAMPLE APPEARANCE Clear

ODORS OBSERVED None

CONDUCTIVITY 200 pH 6.7

TEMPERATURE 60 °F.

SAMPLES ANALYZED FOR

LABORATORY/DATE SHIPPED 9/17/93

COMMENTS, LOCATION SKETCH, WELL-HEAD SKETCH, ETC.

	1 Vol. (1)	2 Vol. (2)	3 Vol. (3)
pH	7.7	6.7	6.7
Cond.	200	200	200
T°F	60	60	60

Fenley & Nicol Co. Inc.

Job Number 60697 Page 1 of 1

445 Brook Avenue, Deer Park, New York 11729 (516) 586-4900 • (718) 204-4002 Environmental Services Division

PROJECT Fire Dept.
CLIENT E. Farmingdale Fire Dept.
LOCATION 930 Conklin St E. Farmingdale

DATE 9-4-93
PERMIT NO.
DRILLER

WELL NO. 29 USE
DRILLING METHOD Hollow Stem Augers
CASING:
Type PVC Diameter 4" Length 15'
SCREEN:
Type PVC Diameter 4" Slot .020 Length 20'
GRAVEL PACK
SECURITY

BORE HOLE DIAMETER 8¼
SAMPLE METHOD
DEPTH TO WATER 24'-5"
TOTAL DEPTH 35'
CASING SEAL
FINISH

FEET	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DIAGRAM	IDENTIFICATION OF SOIL/REMARKS
0				Topsoil
2'				med- course Brown Sand
10'				Light Brown sand some Rocks.
20'				some odor, Light Brown Fine Sand.
25'				

File # 961-6.1

Fenley & Nicol Co. Inc.

Job Number _____ Page 2 of ___

445 Brook Avenue, Deer Park, New York 11729 (516) 586-4900 • (718) 204-4993 Environmental Services Division

PROJECT E. Farmingdale F.D. DATE 11-17-92
CLIENT _____ PERMIT NO. _____
LOCATION _____ DRILLER J. Daniels

WELL NO. EN-21 USE _____ BORE HOLE DIAMETER 8 1/4"
DRILLING METHOD 6" HSA SAMPLE METHOD cuttings
CASING: DEPTH TO WATER 23'
Type PVC Diameter 4" Length 13'6" TOTAL DEPTH 34'
SCREEN:
Type PVC Diameter 4" Slot .020 Length 20'
GRAVEL PACK _____ CASING SEAL _____
SECURITY 8" ø Manhole FINISH _____

DEPTH IN FEET	SAMPLE NUMBER	BLOWS PER 6" ON SAMPLER	WELL DESIGN	IDENTIFICATION OF SOILS/REMARKS
0				grass + Topsoil.
1				brown silty sand/gravel
5'				
				Tan silty sand/gravel
20'				
				Tan med-coarse sand /gravel
34'				

APPENDIX H

EAST FARMINGDALE FIRE DEPARTMENT PCE AND TCE RESULTS

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE · P.O. BOX 205 · BOHEMIA, N.Y. 11716 · (516) 467-8477
AFTER 5 P.M. (516) 567-5579

October 24, 1990

TO: East Farmingdale Fire Department
930 Conklin Street
East Farmingdale, NY 11735

RE: 930 Conklin Street,
East Farmingdale, NY.

Date: Collected 9/28/90 **Analyzed** 9/28-10/4/90 **Report** 10/24/90

Sampling Point

1. FN-3
2. FN-4
3. DEC Well
4. FN-2
5. FN-5

Parameters		1	2	3	4	5
Benzene	ppb	1020	1066	24528	544	31061
Toluene	ppb	1212	1485	73290	678	88770
Xylene	ppb	343	6190	23572	152	45198
Ethylbenzene	ppb	101	1938	9192	29.4	19344
Chlorobenzene	ppb	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorobenzene	ppb	<1.0	<1.0	<1.0	<1.0	<1.0
				1[illegible]	1[illegible]4	
Tetrachloroethylene	ppb	5327	12143	-	52.4	670

1813

Lab Number 66263
hms

Method 602

JOHN PEDNEAULT
Lab Director

PEDNEAULT ASSOCIATES, INC. TESTING LABORATORIES
1615 NINTH AVENUE P.O. BOX 205 BOHEMIA, N.Y. 11716 (516)467-8477
AFTER 5 P.M. (516)567-5579

October 24, 1990

TO: East Farmingdale Fire Department
930 Conklin Street
East Farmingdale, NY 11735

RE: 930 Conklin Street,
East Farmingdale, NY.

Date: Collected 9/28/90 **Analyzed** 9/28-10/4/90 **Report** 10/24/90

Sampling Point

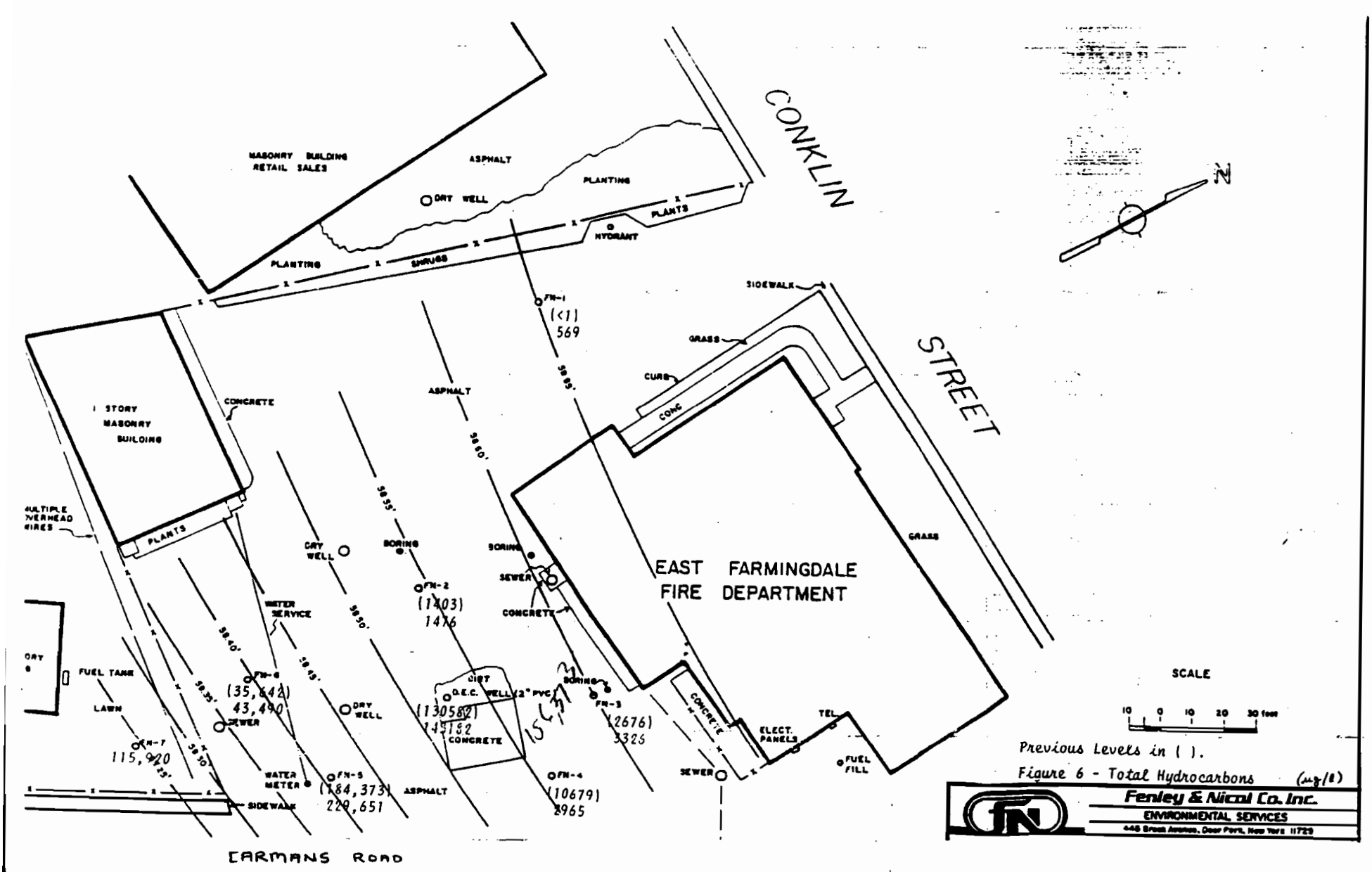
1. FN-6
2. FN-1
3.
4.

Parameters		1	2	3	4	5
Benzene	ppb	1829	<1.0			
Toluene	ppb	3434	<1.0			
Xylene	ppb	22490	<1.0			
Ethylbenzene	ppb	7889	<1.0			
Chlorobenzene	ppb	<1.0	<1.0			
Dichlorobenzene	ppb	<1.0	<1.0			
Tetrachloroethylene	ppb	37.2	<1.0			

JOHN PEDNEAULT
Lab Director

Lab Number 66263
kms

Method 602



Previous Levels in ( ).

Figure 6 - Total Hydrocarbons (ug/l)

Fenley & Nicol Co. Inc.
ENVIRONMENTAL SERVICES
445 Bryan Avenue, Deer Park, New York 11729

FAIRCHILD SITE
←

APPENDIX I

FIRE DEPARTMENT DRAWDOWN CALCULATIONS

Monitoring wells FN-19 and FN-21 are located approximately 300 and 450 downgradient of pumping well FN-17. The downgradient extent of the well FN-17 capture zone was estimated at 90 to 120 feet using the following equation:

$$x=\frac{Q}{2\pi TI}$$

Where:
- X - downgradient extent of the capture zone, feet
- Q - pumping rate, cubic feet per day
- T - aquifer transmissivity square ft/day
- I - local groundwater gradient

The Upper Glacial aquifer at the site consists of gravelly, medium to coarse sand with a total saturated thickness of approximately 70 feet. The transmissivity of the Upper Glacial Aquifer was estimated at 20,000 to 25,000 square feet/day based on soil descriptions from boring logs and literature data.

The groundwater gradient in the Upper Glacial Aquifer in the area was estimated at 0.0012 based on Eder's August 25, 1993 water level contour map.

The Well FN-17 pumping rate was assumed at 90 gpm based on the data available for the Fire Department site from NYSDEC's files (Stony Brook, NY).
The calculation indicates that monitoring wells FN-19 and FN-21 are not likely to be affected by pumping fire station well FN-17.

APPENDIX J

FISH AND WILDLIFE IMPACT ANALYSIS REPORT

THE FAIRCHILD CORPORATION

EAST FARMINGDALE, NEW YORK

BASELINE
FISH & WILDLIFE
IMPACT ANALYSIS REPORT

PROJECT #961-6.1

OCTOBER 1993

BY:

ORLAND BLANCHARD PhD AND

EDER ASSOCIATES CONSULTING ENGINEERS, P.C.

LOCUST VALLEY, NEW YORK

CONTENTS

TABLES

DRAWINGS

APPENDICES

1.0 INTRODUCTION

A baseline fish and wildlife impact analysis (FWIA) was performed as part of the Remedial Investigation of the Old Recharge Basin Site in East Farmingdale, New York. The analysis was performed in accord with NYSDEC's June 18, 1991 Fish and Wildlife Impact Analysis for Inactive Hazardous Waste Sites guidance document. Steps I, IIA and IIB of the FWIA were performed in accord with NYCDEC Division of Fish and Wildlife guidance.

The FWIA objective is to identify fish and wildlife resources at and near the site, determine if exposure pathways exist, and evaluate potential impact. The Step 1 investigation identifies and assesses fish and wildlife resources. A reconnaissance of the site and its environs is required and resources must be described. Step 2 consists of a contaminant specific impact analysis. Pathways must be investigated and environmental risk-based standards are compared to site contaminant data.

This report is based on aerial photo interpretation, ecological site reconnaissance on September 29 and October 1, 18 and 21 supported by inquiries and literature reviews to obtain ecological information on the site and its environs. This report contains information and drawings required by the NYSDEC FWIA guidance document.

2.0 SITE FLORA AND FAUNA

A recharge basin originally constructed as a gravel mine occupies most of the site. The remainder of the site supports a mixture of weedy, mostly alien, trees, shrubs, and herbs. The basin pond is deep and the basin sides are steep, allowing virtually no hydrophytic vegetation to become established. There are several exposed peninsulas (land areas) of varying size in the basin. The level parts sometimes support vegetation that is similar to, but sparser than vegetation found on the upland. Chemical characteristics of the pond were reported by Geraghty & Miller Inc., in 1992 and Eder Associates Consulting Engineers, P.C., in 1993. Drawing 1 shows the location of the site and the regional topography.

The small abundance of plant life noted in the pond consists of the macrophytic alga Nitella and clumps of unidentified filamentous green algae. No aquatic vascular plants were observed, either submerged, floating, or emergent.

The following water birds were seen on or near the pond: Canada Goose (Branta canadensis), Double-crested Cormorant (Phalacrocorax auritus), Black Duck (Anas rubripes), and Mallard (Anas platyrhynchos). These birds, except perhaps for the Cormorant, were probably all "loafing" because the pond is too deep for dabblers. An immature Night Heron (Nycticorax sp.) flew up from the site but it was unclear whether it had been roosting outside the basin or fishing at the water's edge. A Ring-billed Gull (Larus delawarensis) flew over the site several times.

Several additional pond-associated animal observations were noteworthy including Raccoon (Procyon lotor) tracks near the water's edge; frogs (Rana sp.) jumping from shore into a stagnant area near the south end; and Whirligig Beetles (Gyrinidae, Gyrinus) in a large group at the water's surface near the shore. We also have anecdotal evidence of large goldfish in the pond but none were observed.

The upland vegetation included the following herbaceous plants: Common Mullein (Verbascum thapsus), Asters (Aster sp.), Mugwort (Artemisia vulgaris), Purple Top (Tridens flavus), Goldenrods (Solidago sp.), Butter-and-Eggs (Linaria vulgaris), Giant Reed (Phragmites australis), and Knotweeds (Polygonum sp.). Shrubs and vines including Multiflora Rose (Rosa multiflora), Poison Ivy (Toxicodendron radicans), Oriental Bittersweet (Celastrus orbiculatus) and Virginia Creeper (Parthenocissus sp.); while trees included Cottonwood (Populus deltoides), Black Locust (Robinia pseudoacacia), Black Willow (Salix nigra), White Willow (Salix alba), White Mulberry (Morus alba), Silver Maple (Acer saccharinum), Tree-of-Heaven (Ailanthus altissima), Black Cherry (Prunus serotina), Acacia (Albizia julibrissin).

The following birds were observed: Prairie Warbler (Dendroica discolor), Northern Mockingbird (Mimus polyglottos), Killdeer (Charadrius vociferus), Northern Cardinal (Cardinalis cardinalis), Song Sparrow (Melospiza melodia) and House Sparrow (Passer domesticus). Other animals included Garter Snake (Thamnophis sirtalis) and three or four butterfly species.

3.0 FISH AND WILDLIFE RESOURCES IN THE VICINITY OF THE SITE

NYSDEC's FWIA guidance requires characterization of resources within two miles of the site, with a more intensive characterization of the area within one-half mile of the site.

3.1 Resources Within One-half Mile of the Site

Based on aerial photos, USGS topographic maps, and site reconnaissance, over 50 percent of the area within one-half mile of the site's boundaries is totally or virtually without vegetation. Plant life has been replaced by residential and commercial structures and paved areas. Drawing 2 is a covertype map showing the community types within a half mile of the site. The vegetation is virtually entirely the result of human disturbance or management. The community types that we have discerned are based on Reschke's (1990) categorization: "Mowed Lawn" (M on the map), "Mowed Lawn with Trees" (MT), "Water Recharge Basin" (WR), and "Gravel Mine" (G); and--by stretching Reschke's definitions a bit--"Paved Road/Path" (P) and "Urban Vacant Lot" (U). All of these community types are classified by the New York Natural Heritage Program as "S5", meaning that they are "demonstrably secure" in New York State. The site is best characterized as an abandoned Gravel Mine (G).

The Mowed Lawn with Trees (MT) vegetation is characteristic of suburban residential areas and consists of a large variety of mostly planted, native, and exotic trees, ornamental shrubs and turfgrasses, and accompanying lawn weeds. Characteristic animal species include Gray Squirrel (Sciurus carolinensis), American Robin (Turdus migratorius), Mourning Dove (Zenaida macroura), and Mockingbird. Areas marked as "MT" on the covertype map are generally residential, and represent vegetation intermingled with houses, swimming pools, streets, and driveways.

Mowed Lawn (M) includes the extensive closely cropped grassy areas around the airport runways, a golf driving range, a neighborhood playground, and grassed areas around some commercial establishments. This grass was usually planted as turf, but grass round the runways may show that the grass survive constant mowing while other plants do not. American Robin and Killdeer might be expected on such sites, although the airport uses of perched Great Horned Owls in an effort to reduce bird populations.

The category Urban Vacant Lot (U) encompasses a series of successional stages ranging from being grass-and-forb to shrubby or partially wooded, all of which developed on land with disrupted soil. The plant species composition in this habitat is like that of the upland part of the site, with fairly high diversity, but poor quality. The majority of the plants are alien, weedy species. Animals to be expected include Mourning Dove, Field Sparrow (Spizella pusilla), and Eastern Cottontail (Sylvilagus floridanus). Some of these communities also have some aspects of Reschke's "Successional Old Field" community type.

The Reschke community "Paved Road/Path" (P) (created to accommodate situations where plants grow in cracks in the surface) applies to little used or abandoned parking lots and these occupy a significant part of the half-mile radius area. The dominant plant is Mugwort, though Evening Primrose (Oenothera sp.), Goldenrods, and Spotted Knapweed (Centaurea maculosa) are common. Birds in any significant numbers would not be expected.

There are several Water Recharge Basins (WR) in the half-mile area, although technically that category in Reschke is limited to the aquatic community within these basins. The basins are fenced and locked, but aerial photos and examination from a distance show only one basin with substantial standing water. The others, though they occasionally receive stormwater runoff, appear dry and with little hydrophytic vegetation. Much of the vegetation appears to consist of introduced weeds.

There were no state or federally protected species seen within the half mile radius area.

3.2 Resources within Two Miles of the Site

A two-mile radius from the site periphery (see Drawing 1) includes the rest of the airport, several large cemeteries, a small college campus, and part of a state park that is largely a golf course.

The southwest quadrant of the circle intersects two branches of the headwaters of Massapequa Creek. Parts of these are NYSDEC-regulated wetlands, as shown on the map. Beitel (1976) has described the wetlands flora and the creek vegetation.

There is partially degraded pine-barrens vegetation in the northeast quadrant in parts of the undeveloped Pinelawn Cemetery. Cryan & Turner (1981, p. 32) mapped this area (their boundaries shown on the accompanying map) as "Oak Brush Plains." Other areas that they identified (e.g. at Edgewood) have been treated as a rare community, "Pitch Pine-Scrub Oak Barrens" (Reschke, 1990, p. 47), but a letter from M. Scheibel of NYSDEC did not mention the rare community type. It is our understanding that this area is scheduled for development.

A rare plant species, Hairy Small-leafed Tick Trefoil (Desmodium ciliare) was found in an abandoned community formerly called Breslau situated between the two southern arms of the airport's intersecting runways. It is classified by the New York Natural Heritage Program as S2S3, meaning that it is known from as many as 100 occurrences (Young, 1992). NYSDEC classified it as threatened (1990). The species is known in at least 11 other counties in the state (Young, 1992).

The August 10, 1993 letter from M. Scheibel identified three rare plant species from the general area, and one animal species. The plants, Sandplain Gerardia (Agalinis acuta), Southern Yellow Flax (Linum medium var. texanum) and Collins' Sedge (Carex collinsii) have not been seen within the areas covered by the Huntington and Amityville USGS topographic maps since the 1920s (Gerardia, Sedge) or 1930s (Flax). None were found during the field investigation. Collins' Sedge would most likely have been found in the Massapequa Creek drainage, but it drops its fruit early in the season and could easily be overlooked in October. The Flax occurs

in dry uplands and might have occurred in the remnant pine barrens at Pinelawn. The Gerardia might have also occurred. We did not observe it in late September when it could still have been in flower. R. Zaremba from The Nature Conservancy, an expert on the Sandplain Gerardia, searched in the Pinelawn area a few years ago without success.

The larvae of the rare Coastal Barrens Buck Moth (Hemileuca maia maia) reported by Scheibel feed on a common pine-barrens shrub called Scrub Oak (Quercus ilicifolia), which occurs with varying density in the Pinelawn property although none were seen.

We contacted personnel both at the New York State Parks (Long Island State Park Region), and the State University of New York's Farmingdale campus to determine if ecological or natural history studies have been done at Bethpage State Park or the Farmingdale campus. Relevant work has not been done at either location.

3.3 Observation of Stress

There is no visual evidence, in either the landscape or the biota, of toxic contaminants, or any absence of organisms that could be attributed to contamination. Petroleum-stained surface soil was observed in various parts of the basin property, and a release from a service station along the east side of the basin was reported to the county health department by a Fairchild representative in the 1980s. Buildings, concrete, and asphalt are prevalent in this area and the plants and animals are characteristic of residential and other culturally disturbed habitats. This area is an unremarkable fish and wildlife resource.

4.0 FISH AND WILDLIFE RESOURCE VALUE

4.1 Value of Habitat to Associated Fauna

The aquatic habitat of the water-filled basin seems able to support plant life (algae) and animals (fish, presumably tadpoles and beetle larvae), but, in general, the diversity and biomass are low. Low diversity and biomass are expected in a deep, steep-sided groundwater-fed, low-nutrient, artificial pond, and contamination is not a necessary causal factor. The pond has little to offer to higher trophic-level organisms.

The three waterfowl species observed are common Long Island waterfowl. Wade et al. (1990) in a winter 1989 waterfowl survey of 22 freshwater ponds and bays in Brookhaven, recorded 1623 Mallards, 1451 Black Ducks and 1290 Canada Geese compared to of 407, 386, and 182 for the next most numerous species.

Neither the Night Heron nor the Double-crested Cormorant has been confirmed to breed in the interior of Long Island (Andrle & Carroll, 1988) and therefore neither would be expected to do so at the site. Of the upland birds recorded at the site, only the Killdeer and the Prairie Warbler are not common in densely populated residential areas. The Killdeer probably nests in numbers in the remote parts of the airport, and perhaps on the site proper, while the Warbler probably breeds in the pine barrens remnant in the Pinelawn Cemetery. The individual at the site, however, was more likely a migrant.

Habitat value, wildlife abundance and diversity within a half mile of the site are very low due to nearly total development of the area.

4.2 Value of Resources to Human Beings

The site is fenced and locked because of its physical hazards and it is not accessible for recreational purposes. The site can not be legally hunted because of the proximity of roads and populated areas.

There is virtually no current or evident potential use for the meager fish and wildlife resources, except attracting suburbia-associated birds to backyard feeders, or the study of birds and mammals in residential areas. Groundwater recharge basins sometimes support raccoons and breeding birds but, they are typically surrounded by a locked fence and are legally inaccessible to human use.

There are wooded parts of the Pinelawn Cemetery, Bethpage State Park and the upper parts of two tributaries to Massapequa Creek within two miles of the site. Bethpage State Park is used almost exclusively for golf and Massapequa Creek is used to a limited extent for hiking. The small creeks may also be used for recreation. All three areas might be used for birding and other nature-related recreation. There is no visual evidence to suggest that any of these areas are affected by contamination.

5.0 RI DATA EVALUATION

In September and October 1988, Geraghty & Miller, Inc. (G&M) collected 15 surface sediment samples and 20 deep sediment samples from 16 borings in the recharge basin (B-9 through B-16 in the north pond and B-1 through B-8 in the south pond). The samples were analyzed for the TCL/TAL list and EP toxicity metals and data are presented in G&M's April 1992 Work Plan for the Remedial Investigation/Feasibility Study of the Old Recharge Basin.

The surface sediment results were compared to the December 1989 NYSDEC Draft Cleanup Criteria for Aquatic Sediments (summarized on Tables 1 and 2) to assess potential environmental risk associated with site contaminants. These criteria are based on aquatic toxicity and bioaccumulation risk. Fishing is not permitted in this or other recharge basins and wildlife, but not human, bioaccumulation associated with fish consumption was considered in the evaluation. The criteria assume that the contaminants could become bioavailable in the sediment interstitial pore water, which is a conservative assumption. The standards also assume that aquatic populations are present and exposed to the bioavailable contaminant mass, but this assumption has not been demonstrated by the RI data.

A significant number of samples exhibited cadmium concentrations exceeding the limit of tolerance (LOT). Other metals exceeded the LOT in less than 50% of the samples. Most of the samples contained PCBs at concentrations exceeding the fish bioaccumulation criterion for accumulation factors ranging from 1 to 10 and 0.1 to 1. A conservative organic carbon (OC) content of 0.5 percent was assumed and used to compare the sediment organics data to the aquatic sediment criteria. NYSDEC representatives stated that this is a reasonable value for Long Island soil. Phenanthrene concentrations in seven of 15 surface sediment samples exceeded the aquatic criteria. None of the other base neutral/acid extractable or volatile organic compounds were found at levels significantly above aquatic criteria or at a significant number of sample locations. Detection limits for some of the samples are above the aquatic criteria due to matrix interference.

Sixteen sediment samples were analyzed for EP toxicity metals and all of the sample concentrations were below the RCRA hazardous waste criteria.

Geraghty & Miller collected 30 surface water samples from 11 locations at the Old Recharge Basin (Tables 3.9 - 3.11 in Appendix A). The aquatic standards and guidance values for many volatile organic and base neutral compounds were below the typical ASP detection limits. Concentrations of tetrachloroethene (PCE) and trichloroethene (TCE) exceeded the aquatic guidance values of 1 ppb and 11 ppb respectively, in most of the samples. The mean of PCE concentrations exceeding the standard is 42.9 ppb. The highest PCE concentration, 66 ppb, was detected in a sample from the south pond. The mean of TCE concentrations exceeding the standard is 14.9 ppb. The highest TCE concentration, 22 ppb, was detected in a sample from the south pond. Aluminum is the only metal found in a significant number of samples at concentrations above the standard.

6.0 CONCLUSIONS

Based on the Step I, IIA, and IIB Impact Analysis:

- Most of the half mile area around the site is densely developed and devoid of vegetation, and virtually all of the vegetation that is present is the result of recent or continuing human impact. The plant and animal life at and within half mile of the site is sparse and/or low in diversity and biomass. There is no evidence of offsite environmental receptors.

- The sparse environment at the site and in the immediate vicinity of the basin is most evidently attributable to low nutrients and/or deep water (aquatic habitats) and profound soil disturbance and/or management (terrestrial habitats). The site and half mile radius supports little in the way of significant fish and wildlife, and the fish and wildlife value for humans based on resources and land use is judged to be negligible.

- Basin sediment contamination was characterized in 1988 by Geraghty and Miller. Metals and PCBs are present in portions of the basin at concentrations exceeding state aquatic sediment criteria. Ecological data collected as part of the FWIA do not suggest that there is substantial aquatic life in the basin. The physical basin characteristics are a dominant control on the aquatic habitat and the basin would not be expected to be capable of supporting substantial or diverse resources. Fish were not observed during several FWIA site inspections, and their absence would imply zero bioaccumulation risk. RI surface water sampling results indicated TCE and PCE at levels exceeding state aquatic surface water standards. The TCE and PCE levels are likely to be decreasing with time since the discharge to the basin was discontinued in the early 1980s. The low levels of VOCs do not suggest that air is a significant exposure pathway. There is no evidence of any significant offsite environmental receptor exposure pathways.

7.0 REFERENCES

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THE FAIRCHILD CORPORATION
EAST FARMINGDALE, NEW YORK

TABLE 1

SEDIMENT CRITERIA EXCEEDANCE SUMMARY METALS[1]

Constituent	NYSDEC Sediment Criteria (ppm)	Number of Samples Exceeding Standard	Mean of Values Exceeding Standards (ppm)	Highest Concentration (ppm)	Boring Location with Highest Concentration	NYSDEC Limit of Tolerance (ppm)	% of Samples Exceeding Limit of Tolerance
Arsenic	5	80%	13.6	34.3	B-11	33	7%
Cadmium	0.8	100%	61.3	267	B-10	10	80%
Copper	19	93%	434.1	1,130	B-15	114	47%
Iron	24000	40%	44,366	46,600	B-16	40000	7%
Lead	27	80%	303.3	864	B-9	250	40%
Manganese	428	53%	973.4	1,730	B-10	1100	20%
Mercury	0.11	67%	1.95	6.5	B-9	2	13%
Nickel	22	47%	52.3	90.2	B-10	90	7%
Zinc	85	93%	2,021	7,470	B-9	800	50%

NOTES:

[1] Surface sediment sampling results are compared to NYSDEC's December 1989 Sediment Criteria.

FAIRCHILD INDUSTRIES, INC.
EAST FARMINGDALE, NEW YORK

TABLE 1

SEDIMENT CRITERIA FOR A VARIETY OF ENVIRONMENTAL PROTECTION OBJECTIVES (NYSDEC 1989)

SUBSTANCE	AQUATIC TOXICITY BASIS					WILDLIFE RESIDUE BASIS		
	Log K(ow)	FRESHWATER OR MARINE F or M	AWQS/GV/C* ug/l	SEDIMENT CRITERION ug/gOC	OC =0.5% CRITERION ug/kg (1)	AWQS/GV/C* ug/l	SEDIMENT CRITERION ug/gOC	OC 0.5% Criterion ug/kg
Acenapthene	4.33	F		730**	3650			
Anilene		F		0.0662**	0.331			
		M		0.248**	0.124			
Aldrin and Dieldrin	5.0	F&M						
		F&M	0.084+	8.4	42	0.0077+	0.77	3.85
Azinphosmethyl	2.4	F	0.005++	0.001	0.005			
		M	0.01++	0.003	0.015			
Azobenzene	3.82	F&M						
Benzene	2.0	F&M						
Benzo(a)pyrene	6.04	F						
and other PAH's (2)		M						
Benzidene	1.4	F	0.1++	0.003	0.015			
Bis(2-chloro-ethyl)ether	1.73	F&M						
Bis(2-ethylhexyl)phthalate	5.3	F	0.6++	119.7	598.5			
Carbofuran	2.26	F	1++	0.2	1.0			
Carbon tetrachloride	2.64	F&M						
Chlordane	2.78	F&M						
		F&M	0.01+	0.006	0.030	0.01+	0.006	0.30
Chlorobenzene	2.84	F&M	5++	3.5	16.5			
Chloro-o-toluidine	About 2.0	F&M						
Chloropyrifos	5.11	F		3.22**	16.1			
		M		0.44**	2.2			
DDT, DDD, and DDE	6.0	F&M				0.001++	1	
		F&M					0.828**	4.14
		F&M	<0.05+	<50	<250			
Dieldrin	5.0	F		19.5**	97.5			
		M		5.77**	28.85			
Diazinon	1.92	F	0.08++	0.007	0.035			
Dichlorobenzenes	3.38	F&M	5++	12	60			
1,2-Dichloroethane	1.48	F&M						
1,1-Dichloroethylene	1.48	F&M						
2,6-Dinitrotoluene	2.05	F&M						
Diphenylhydrazine	3.03	F&M						
Endosulfan	3.55	F	0.009++	0.03	0.15			
		M	0.001++	0.004	0.02			
Endrin	5.6	F&M	0.002++	0.8	4	0.0019+	0.8	4.0
		F		1.04**	5.2			
		M		0.215**	1.075			
Ethyl Parathion	2.1	F		0.081**	0.405			
Heptachlor &	4.4	F&M	0.001++	0.03	0.15	0.0038+	0.1	0.5
Heptachlor Epoxide		F						
		M						
Hexachlorobenzene	6.18	F&M	<5+	<7568	<37840	0.008+	12	60
Heptachlorobutadiene	3.74	F&M				0.07+	0.4	2.0
		F	1++	5.4	27			
		M	0.3++	1.6	8			
Hexachlorocyclohexanes	3.8	F		0.157**	0.785			
		F	0.01++	0.06				
		M	0.004++	0.03				
		F&M				0.23+	1.5	7.5

FAIRCHILD INDUSTRIES, INC.
EAST FARMINGDALE, NEW YORK

TABLE 1

SEDIMENT CRITERIA FOR A VARIETY OF ENVIRONMENTAL PROTECTION OBJECTIVES (NYSDEC 1989)

SUBSTANCE	AQUATIC TOXICITY BASIS					WILDLIFE RESIDUE BASIS		
	Log K(ow)	FRESHWATER OR MARINE F or M	AWQS/GV/C* ug/l	SEDIMENT CRITERION ug/gOC	OC =0.5% CRITERION ug/kg (1)	AWQS/GV/C* ug/l	SEDIMENT CRITERION ug/gOC	OC 0.5% Criterion ug/kg
Hexachlorocyclopentadiene	3.99	F	0.45++	4.4	22			
		M	0.07++	0.7				
Isodecyldiphenyl phosphate	5.4	F	1.73++	434	2170			
Linear alkylbenzene sulfonates	3.97 (3)	F	40++	373	1865			
Malathion	2.2	F&M	0.1++	0.02	1.0			
Methoxychlor	4.3	F&M	0.03++	0.6	3.0			
Mirex	5.83	F&M				0.0055+	3.7	18.5
		F&M						
Octachlorostyrene	About 6.0					0.0005+	0.5	2.5
Parathion and methyl parathion	2.5	F	0.008++	0.003	0.015			
Pentachlorophenol	5.0	F	0.4++	40	200			
Phenanthracene	4.46	F		139**	695			
		M		102**				
Phenols, total	2.75	F	1++	0.6	3.0			
Phenols, total unchlorinated	2.0	F	5++	0.5	2.5			
PCB	6.14	F&M	<0.2+	<276	<1380	0.001++	1.4	7
		F&M				0.0004+	0.6	3
		F					19.6**	97.3
		M					41.8**	209
2,3,7,8-Tetrachloroethane	7.0	F&M	<0.001+	<10	<50	2XE-8	0.0002	0.001
		F&M						
1,1,2,2-Tetrachloroethane	2.56	F&M						
Tetrachloroethylene	2.88	F&M						
O-Toluidine	1.4	F&M						
Toxaphene	3.3	F&M	0.005	0.01	<0.05			
Trichlorobenzenes	4.26	F&M	5++	91	455			
1,1,2-Trichloroethane	2.17	F&M						
Trichloroethylene	2.29	F&M						
Triphenyl phosphate	4.59	F	4++	156	780			
Vinyl chloride	0.6	F&M						

NOTES:

* AWQS/GV/C = Ambient water quality standard or guidance value in TOGS 1.1.1 or other water quality criterion.

+ AWQGV proposed by Division of Fish and Wildlife.

++ Current NYS AWQS or GV in TOGS 1.1.1.

** EPA proposed interim sediment criteria; taken from an EPA briefing document for the EPA Science Advisory Board. Sediment criteria are normalized to organic carbon (OC) content as ug/gOC; to obtain criteria for bulk sediments in ug/kg multiply criteria by fraction OC; i.e. for 1% multipy by 10, for 2% OC by 20, etc.).

(1) Organic carbon data was not collected. A conservative organic carbon concentration of 0.5% was used for this comparison.

(2) The sediment criterion for benzo(a)pyrene also applies to benz(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and methylbenz(a)anthracenes. These PAH have the same TOGS 1.1.1. guidance value as benzo(a)pyrene.

(3) Sodium dodecylbenzene sulfanate.

FAIRCHILD INDUSTRIES, INC.
EAST FARMINGDALE, NEW YORK

TABLE 2

SEDIMENT CRITERIA FOR METALS, UG/G (PPM) EXCEPT IRON WHICH IS IN PERCENT.

METAL	BACKGROUND*	CRITERIA**	LIMIT OF TOLERANCE***
Arsenic	12	5 (4.0 - 5.5)	33
Cadmium	2.5	0.8 (0.6 - 1.0)	10
Chromium	75	26 (22 - 31)	111
Copper	65	19 (15 - 25)	114
Iron (%)	5.9	2.4 (2 - 3)	4
Lead	55	27 (23 - 31)	250
Manganese	1200	428 (400 - 457)	1100
Mercury	0.6	0.11 (0.1 - 0.12)	2
Nickel	75	22 (15 - 31)	90
Zinc	145	85 (65 - 110)	800

NOTES:

* = From MOE (1988); upper 95% confidence limit of pre-industrial concentrations in Great Lakes sediments.

** = Values in parentheses are "no-effect" and "lowest-effect" levels, respectively, from Persaud (1989).

*** = Concentration which would be detrimental to the majority of species, potentially eliminating most. (Persaud 1989)

APPENDIX A

GERAGHTY & MILLER, INC. ANALYTICAL DATA TABLES 3.1-3.11

Table 3-1. Summary of Soil Boring Data from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Soil Boring Numbers	Drilling/ Sampling Date	Casing Diameter (inches)	Total Depth (ft below basin bottom)	Depth to Native Soil (ft below basin bottom)	Total Number of Samples Collected	Sample Intervals Selected for Laboratory Analysis (ft below basin bottom)
B-1	9/27/88	4	9	0.25	4	0-4, 4-7
B-2	9/27/88	4	9	5.5	3	0-4, 5-7
B-3	9/27/88	4	4	0.5	2	0-2, 2-4
B-4	9/28/88	4	6	6+	3	0-2, 2-6
B-5	9/28/88	4	4	3.5	2	2-4
B-6	9/29/88	4	4	2	2	0-2, 2-4
B-7	9/29/88	4	2	0.25	1	0-2
B-8	9/29/88	4	4	2	2	0-2, 2-4
B-9	10/4/88	4	6	4	3	0-4, 4-6
B-10	10/5/88	4	6	4	3	0-4, 4-6
B-11	10/5/88	4	6	4	3	0-4, 4-6
B-12	10/6/88	4	9	7	4	0-5, 5-7, 7-9
B-13	10/6/88	4	11	9	4	0-5, 5-9, 9-11
B-14	10/7/88	4	20	14.5	10	0-8, 8-13, 13-19
B-15	10/10/88	4	18	10	3	0-7, 7-10, 10-17
B-16	10/10/88	4	12	7	5	0-5, 5-7, 7-11

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*
Sample Depth:	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
Parameter (ug/kg)					
Methylene chloride	12	<6	<7	<6	<19
Acetone	53 J	<12	49 J	32 J	<300
1,2-Dichloroethene (total)	20	<6	<7	<6	<19
Chloroform	<6	<6	<7	<6	<19
Toluene	<6	<6	<7	<6	<19
Chlorobenzene	<6	<6	<7	<6	<19
Ethylbenzene	<6	<6	<7	<6	<19
Styrene	<6	<6	<7	<6	<19
Xylene (total)	<6	<6	<7	<6	<19
2-Butanone	<13	<13	5 J	<12	<90
Vinyl chloride	<13	<13	<14	<12	<38
Tetrachloroethene	<6	6	<7	<6	<19
Trichloroethene	<6	<6	<7	<6	<19
1,1,1-Trichloroethane	<6	<6	<7	<6	<19
Total VOCs	85	6	54	32	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5	B-6
Sample Type:	N	S	S	S	S
Sample Depth:	2-4	0-2	2-6	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88
Parameter (ug/kg)					
Methylene chloride	<6	<7	<9	<9	<12
Acetone	47 J	<190	<360	<210	<85
1,2-Dichloroethene (total)	<6	<7	<9	<9	<12
Chloroform	<6	<7	<9	<9	<12
Toluene	<6	<7	<9	<9	<12
Chlorobenzene	<6	<7	<9	<9	<12
Ethylbenzene	<6	<7	<9	<9	<12
Styrene	<6	<7	<9	<9	<12
Xylene (total)	<6	<7	<9	<9	<12
2-Butanone	<12	<41	<110	<63	<23
Vinyl chloride	<12	<13	<19	<18	<23
Tetrachloroethene	<6	<7	<9	<9	<12
Trichloroethene	<6	<7	<9	<9	<12
1,1,1-Trichloroethane	<6	<7	<9	<9	<12
Total VOCs	47	--	--	--	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unusable data.

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-7	B-8	B-8	B-9	B-9
Sample Type:	N	S/N*	S	N	S	N
Sample Depth:	2-4	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88	10/4/88	10/4/88
Parameter (ug/kg)						
Methylene chloride	<6	<6	<25	<6	<3800 J	<6
Acetone	30 J	42 J	<270	76 J	<7600 J	<61
1,2-Dichloroethene (total)	<6	<6	<25	<6	<3800 J	<6
Chloroform	<6	<6	<25	<6	<3800 J	<6
Toluene	<6	<6	<25	<6	500 J	<6
Chlorobenzene	<6	<6	<25	<6	<3800 J	<6
Ethylbenzene	<6	<6	<25	<6	<3800 J	<6
Styrene	<6	<6	<25	<6	<3800 J	<6
Xylene (total)	<6	<6	<25	<6	<3800 J	2 J
2-Butanone	2 J	<12	<49	11 J	R	R
Vinyl chloride	<12	<12	<49	<12	<7600 J	<12
Tetrachloroethene	<6	<6	<25	<6	<3800 J	2 J
Trichloroethene	<6	<6	<25	<6	<3800 J	<6
1,1,1-Trichloroethane	<6	<6	<25	<6	<3800 J	<6
Total VOCs	32	42	--	87	500	4

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12	B-12
Sample Type:	S	N	S	N	S	S
Sample Depth:	0-4	4-6	0-4	4-6	0-5	5-7
Sample Date:	10/5/88	10/5/88	10/5/88	10/5/88	10/6/88	10/6/88
Parameter (ug/kg)						
Methylene chloride	<3600 J	<6	<13	<6	<12000 J	<2700 J
Acetone	<7400 J	<120	<160	<110	<67,000 B	<5400 J
1,2-Dichloroethene (total)	<3600 J	<6	<11	<6	<12000 J	5000 J
Chloroform	<3600 J	<6	<11	<6	<12000 J	<2700 J
Toluene	860 J	<6	<11	<6	<12000 J	<2700 J
Chlorobenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Ethylbenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Styrene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Xylene (total)	<3600 J	1 J	<11	1 J	<12000 J	<2700 J
2-Butanone	R	R	R	R	R	R
Vinyl chloride	<7400 J	<12	<22	<12	<27000 J	<5400 J
Tetrachloroethene	<3600 J	<6	<11	2 J	<12000 J	<2700 J
Trichloroethene	<3600 J	<6	<11	<6	<12000 J	1800 J
1,1,1-Trichloroethane	<3600 J	11	<11	13	<12000 J	<2700 J
Total VOCs	860	12	--	16	--	6,800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old rge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, ... fork.

Sample Designation:	B-12	B-13	B-13	B-13	B-14	B-14
Sample Type:	N	S	S	N	S	S
Sample Depth:	7-9	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
(ug/kg)						
chloride	<32	<84 J	<760 J	43	<250 J	<58
	<410	<600 J	<1500 J	430 J	<770 J	<610
roethene (total)	24 J	<84 J	<760 J	<29	<250 J	330
	<30	<84 J	<760 J	<29	<250 J	<58
	<30	<84 J	<760 J	<29	<250 J	44
ene	<30	<84 J	<760 J	<29	<250 J	<58
ne	<30	<84 J	<760 J	<29	<250 J	12
	<30	<84 J	<760 J	<29	<250 J	<58
tal)	<30	<84 J	<760 J	<29	400 J	<120
	R	<170 J	R	49 J	<500 J	R
ride	<60	<170 J	<1500 J	<58	<500 J	210
roethene	<30	<84 J	<760 J	<29	<250 J	<58
thane	22 J	<84 J	<760 J	<29	<250 J	940
chloroethane	<30	<84 J	<760 J	<29	<250 J	<58
	46	--	--	522	400	1,536

ts reported in micrograms per kilogram (ug/kg).

t detected.
timated Value.
tected in the Reagent blank.
diment.
tive soil.
signates dominant component of composite sample.
useable data.

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16	B-16
Sample Type:	S	S	S	N	S	S
Sample Depth:	13-19	0-7	7-10	10-17	0-5	5-7
Sample Date:	10/7/88	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88
Parameter (ug/kg)						
Methylene chloride	<6	<92	<96	<50	<110	<64 J
Acetone	<74	<1200	3,500 B	<1,300	4,600 B	<2,000 J
1,2-Dichloroethene (total)	<6	1000	<96	<50	<110	<64 J
Chloroform	<6	<92	<96	<50	<110	<64 J
Toluene	1 J	310	<96	<50	<110	<64 J
Chlorobenzene	<6	<92	180	<50	160	<64 J
Ethylbenzene	<6	<92	<96	<50	<110	<64 J
Styrene	<6	<92	<96	<50	<110	<64 J
Xylene (total)	<6	380	400	<50	430	180 J
2-Butanone	R	R	1,000 J	370 J	1,100 J	620 J
Vinyl chloride	<12	<180	<190	1,100	<220	<130 J
Tetrachloroethene	3 J	<92	<96	<50	<110	<64 J
Trichloroethene	<6	<92	<96	<50	<110	<64 J
1,1,1-Trichloroethene	1 J	<92	<96	<50	<110	<64 J
Total VOCs	5	1,690	1,580	1,470	1,690	800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 3-2. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16
Sample Type:	N
Sample Depth:	7-11
Sample Date:	10/10/88

Parameter (ug/kg)	
Methylene chloride	<6
Acetone	<28
1,2-Dichloroethene (total)	<6
Chloroform	<6
Toluene	<6
Chlorobenzene	<6
Ethylbenzene	<6
Styrene	<6
Xylene (total)	<6
2-Butanone	R
Vinyl chloride	<12
Tetrachloroethene	<6
Trichloroethene	<6
1,1,1-Trichloroethane	<6
Total VOCs	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
	S/N*	N	S	S/N*	S/N*
Parameter (ug/kg)					
N-Nitrosodiphenylamine	86 J	<380	<1300	<410	<440
1,2-Dichlorobenzene	58 J	<380	110 J	<410	55 J
Diethylphthalate	<570	<380	<1300	<410	<440
Di-n-butylphalate	<570	<380	<1300	50 J	<440
Phenol	<570	<380	<1300	<410	<440
Hexachlorobenzene	<570	<380	<1300	<410	<440
bis(2-Chloroethyl)ether	<570	<380	<1300	<410	<440
2-Chlorophenol	<570	<380	<1300	<410	<440
2,4-Dinitrotoluene	<570	<380	<1300	<410	<440
1,4-Dichlorobenzene	<570	<380	<1300	<410	<440
Benzo(g,h,i)perylene	<570 J	<380	<1300	<410	<440 J
Benzo(a)pyrene	300 J	<380	340 J	<410	<440 J
Indeno(1,2,3-cd)pyrene	<570 J	<380	<1300	<410	<440 J
4-Methylphenol	<570	<380	<1300	<410	<440
N-nitroso-di-n-propylamine	<570	<380	<1300	<410	<440
Acenaphthene	<570	<380	<1300	<410	<440
bis(2-Ethylhexyl)phthalate	<860	<380	<1300	<470	<1,900 J
4-Nitrophenol	<2800	<1900	<6400	<2000	<2200
Isophorone	<570	<380	<1300	<410	<440
Dibenzofuran	<570	<380	23 J	<410	36 J
2,4-Dimethylphenol	<570	<380	<1300	<410	<440
Benzoic acid	<2800	<1900	250 J	<2000	110 J
Benzo(b)fluoranthene	<570 J	6 J	480 J	43 J	<440 J
Benzo(k)fluoranthene	440 J	<380	<1300	<410	320 J
1,2,4-Trichlorobenzene	<570	<380	<1300	<410	<440
Naphthalene	<570	<380	<1300	<410	<440
Benzo(a)anthracene	<570 J	<380	<1300	<410	<440
Chrysene	320 J	<380	430 J	47 J	230 J
4-Chloro-3-methylphenol	<570	<380	44 J	<410	<440
2-Methylnaphthalene	<570	<380	45 J	<410	<440
Pentachlorophenol	<2800	<1900	<6400	<2000	<2200
Phenanthrene	<570	<380	250 JB	<410	<440
Anthracene	<570	<380	87 JB	<410	<440
Di-n-octyl phthalate	<570 J	<380	<1300	<410	<440 J
Fluoranthene	400 J	<380	510 J	79 J	270 J
Pyrene	660	<380	720 J	69 J	610 J
Dimethyl phthalate	<570	<380	<1300	<410	37 J
Acenaphthylene	49 J	<380	<1300	<410	38 J
Fluorene	<570	<380	<1300	<410	<440
Butylbenzylphthalate	<570	<380	<1300	<410	<440 J
Total Semivolatile Organic Compounds	2,313	6	2,952	288	1,706

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5
Sample Depth (ft):	2-4	0-2	2-6	2-4
Sample Date:	9/28/88	9/28/88	9/28/88	9/28/88
	N	S	S	S*/N
Parameter (ug/kg)				
N-Nitrosodiphenylamine	<380	<470	<590	<490
1,2-Dichlorobenzene	<380	<470	<590	70 J
Diethylphthalate	<380	<470	<590	<490
Di-n-butylphalate	<380	<470	<590	51 J
Phenol	<380	<470	<590	<490
Hexachlorobenzene	<380	<470	<590	<490
bis(2-Chloroethyl)ether	<380	<470	<590	<490
2-Chlorophenol	<380	<470	<590	<490
2,4-Dinitrotoluene	<380	<470	<590	<490
1,4-Dichlorobenzene	<380	<470	<590	<490
Benzo(g,h,i)perylene	<380	<470 J	<590 J	<490 J
Benzo(a)pyrene	<380	2,000 J	940 J	220 J
Indeno(1,2,3-cd)pyrene	<380	<470 J	<590 J	<490 J
4-Methylphenol	<380	<470	<590	<490
N-nitroso-di-n-propylamine	<380	<470	<590	<490
Acenaphthene	<380	350 J	150 J	<490
bis(2-Ethylhexyl)phthalate	<380	<1,400 J	<6,300 J	<1,700 J
4-Nitrophenol	<1900	<2300	<2900	<2400
Isophorone	<380	<470	<590	<490
Dibenzofuran	<380	250 J	95 J	<490
2,4-Dimethylphenol	<380	<470	<590	<490
Benzoic acid	<1900	<2300	<2900	<2400
Benzo(b)fluoranthene	<380	5,300 J	1,300 J	180 J
Benzo(k)fluoranthene	<380	430 J	<590 J	<490 J
1,2,4-Trichlorobenzene	<380	<470	<590	<490
Naphthalene	<380	170 J	190 J	<490
Benzo(a)anthracene	8 J	1,700 J	<590 J	<490 J
Chrysene	<380	1,900 J	<590 J	230 J
4-Chloro-3-methylphenol	<380	<470	<590	<490
2-Methylnaphthalene	<380	330 J	250 J	28 J
Pentachlorophenol	<1900	<2300	<2900	<2400
Phenanthrene	<380	1,800 B	<590	<490
Anthracene	<380	580 B	<590	<490
Di-n-octyl phthalate	<380	<470 J	<590 J	<490 J
Fluoranthene	<380	2,400	750	250 J
Pyrene	<380	5,300 J	3,300 J	520 J
Dimethyl phthalate	<380	<470	<590	<490
Acenaphthylene	<380	560	130 J	43 J
Fluorene	<380	510	<590	<490
Butylbenzylphthalate	<380	<470 J	<590 J	<490 J
Total Semivolatile Organic Compounds	8	21,200	7,105	1,592

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-6	B-7	B-8
Sample Depth (ft):	0-2	2-4	0-2	0-2
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88
	S	N	S/N*	S
Parameter (ug/kg)				
N-Nitrosodiphenylamine	<570	<400	<390	<530
1,2-Dichlorobenzene	74 J	<480	<390	130 J
Diethylphthalate	<570	<400	<390	<530
Di-n-butylphalate	<570	<400	34 J	<530
Phenol	<570	<400	<390	<530
Hexachlorobenzene	<570	<400	<390	43 J
bis(2-Chloroethyl)ether	<570	<400	<390	<530
2-Chlorophenol	<570	<400	<390	<530
2,4-Dinitrotoluene	<570	<400	<390	<530
1,4-Dichlorobenzene	<570	<400	<390	<530
Benzo(g,h,i)perylene	<570 J	<400	210 J	<530 J
Benzo(a)pyrene	320 J	5 J	2,200 J	830 J
Indeno(1,2,3-cd)pyrene	<570 J	<400	330 J	<530 J
4-Methylphenol	<570	<400	<390	43 J
N-nitroso-di-n-propylamine	<570	<400	<390	<530
Acenaphthene	<570	<400	300 J	250 J
bis(2-Ethylhexyl)phthalate	<2,300 J	<810	<730	<1,800 J
4-Nitrophenol	<2800	<2000	<1900	<2600
Isophorone	<570	<400	<390	<530
Dibenzofuran	<570	<400	230 J	150 J
2,4-Dimethylphenol	<570	<400	<390	<530
Benzoic acid	73 J	<2000	<1900	130 J
Benzo(b)fluoranthene	300 J	4 J	3,100 J	1,900 J
Benzo(k)fluoranthene	<570	<400	610 J	190 J
1,2,4-Trichlorobenzene	<570	<400	<390	<530
Naphthalene	31 J	<400	140 J	110 J
Benzo(a)anthracene	<570 J	<400	2,300	<530 J
Chrysene	310 J	<400	2,300	<530 J
4-Chloro-3-methylphenol	<570	<400	<390	<530
2-Methylnaphthalene	35 J	<400	93 J	410 J
Pentachlorophenol	<2800	<2000	<1900	<2600
Phenanthrene	<570	<400	3,300 B	1,300 B
Anthracene	<570	8 J	980 B	330 JB
Di-n-octyl phthalate	<570 J	<400	<390 J	<530 J
Fluoranthene	370 J	15 J	4,200	1,100
Pyrene	820 J	14 J	5,400	2,400 J
Dimethyl phthalate	<570	<400	<390	<530
Acenaphthylene	53 J	<400	290 J	210 J
Fluorene	<570	<400	<390	390 J
Butylbenzylphthalate	<570 J	<400	<390	<530 J
Total Semivolatile Organic Compounds	2,386	46	21,737	8,286

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-9	B-9	B-10	B-10
Sample Depth (ft):	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
	N	S	N	S	N
Parameter (ug/kg)					
N-Nitrosodiphenylamine	<390	<1300	<390	<100,000 J	<390
1,2-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Diethylphthalate	<390	<1300	<390	<100,000 J	<390
Di-n-butylphalate	26 J	<1300	21 J	<100,000 J	<390
Phenol	<390	<1300	<390	<100,000 J	<390
Hexachlorobenzene	<390	<1300	<390	<100,000 J	<390
bis(2-Chloroethyl)ether	<390	<1300	<390	<100,000 J	<390
2-Chlorophenol	<390	<1300	<390	<100,000 J	<390
2,4-Dinitrotoluene	<390	<1300	<390	<100,000 J	<390
1,4-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Benzo(g,h,i)perylene	<390	<1300 J	<390	<100,000 J	<390 J
Benzo(a)pyrene	34 J	370 J	29 J	<100,000 J	150 J
Indeno(1,2,3-cd)pyrene	<390	<1300 J	<390	<100,000 J	<390 J
4-Methylphenol	<390	<1300	<390	<100,000 J	<390
N-nitroso-di-n-propylamine	<390	<1300	<390	<100,000 J	<390
Acenaphthene	28 J	<1300	<390	<100,000 J	<390
bis(2-Ethylhexyl)phthalate	<390	<3,100	<910	<100,000 J	<1300
4-Nitrophenol	<1900	<6600	<1900	<480,000 J	<1900
Isophorone	<390	<1300	<390	<100,000 J	<390
Dibenzofuran	<390	<1300	<390	<100,000 J	<390
2,4-Dimethylphenol	<390	<1300	<390	<100,000 J	97 J
Benzoic acid	<1900	<6600	<1900	<480,000 J	<1900
Benzo(b)fluoranthene	<390	500 J	<390	<100,000 J	260 J
Benzo(k)fluoranthene	31 J	<1300 J	<390	<100,000 J	<390 J
1,2,4-Trichlorobenzene	<390	<1300	<390	<100,000 J	<390
Naphthalene	<390	<1300	<390	<100,000 J	<390
Benzo(a)anthracene	<390	<1300	<390	<100,000 J	<390
Chrysene	<390	460 J	47 J	<100,000 J	220 J
4-Chloro-3-methylphenol	<390	<1300	<390	<100,000 J	<390
2-Methylnaphthalene	<390	<1300	<390	<100,000 J	<390
Pentachlorophenol	<1900	<6600	<1900	<480,000 J	<1900
Phenanthrene	140 JB	530 J	29 J	<100,000 J	160 J
Anthracene	32 JB	<1300	<390	<100,000 J	<390
Di-n-octyl phthalate	280 J	<1300 J	25 J	<100,000 J	<390 J
Fluoranthene	93 J	860 J	71 J	2,900 J	350 J
Pyrene	95 J	920 J	70 J	<100,000 J	430
Dimethyl phthalate	<390	<1300	<390	<100,000 J	<390
Acenaphthylene	<390	<1300	<390	<100,000 J	<390
Fluorene	26 J	<1300	<390	<100,000 J	<390
Butylbenzylphthalate	<390	<1300	12 J	<100,000 J	<390
Total Semivolatile Organic Compounds	613	3,640	304	2,900	1,667

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12
Sample Depth (ft):	0-4	4-6	0-5	5-7	7-9
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88
	S	N	S		N
Parameter (ug/kg)					
N-Nitrosodiphenylamine	<1600	<400	<33000 J	<95000 J	<450
1,2-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Diethylphthalate	<1600	<400	<33000 J	<95000 J	<450
Di-n-butylphalate	100 J	<400	<33000 J	<95000 J	<450
Phenol	<1600	<400	<33000 J	<95000 J	<450
Hexachlorobenzene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Chloroethyl)ether	<1600	<400	<33000 J	<95000 J	<450
2-Chlorophenol	<1600	<400	<33000 J	<95000 J	<450
2,4-Dinitrotoluene	<1600	<400	<33000 J	<95000 J	<450
1,4-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Benzo(g,h,i)perylene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Benzo(a)pyrene	<1600 J	160 J	<33000 J	<95000 J	270 J
Indeno(1,2,3-cd)pyrene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
4-Methylphenol	<1600	<400	<33000 J	<95000 J	<450
N-nitroso-di-n-propylamine	<1600	<400	<33000 J	<95000 J	<450
Acenaphthene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Ethylhexyl)phthalate	<3,300	<1,500	<33000 J	<95000 J	<1,600
4-Nitrophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Isophorone	<1600	<400	<33000 J	<95000 J	<450
Dibenzofuran	<1600	<400	<33000 J	<95000 J	<450
2,4-Dimethylphenol	<1600	<400	<33000 J	<95000 J	<450
Benzoic acid	<7800	<2000	<160,000 J	<450,000 J	<2200
Benzo(b)fluoranthene	<1600 J	220 J	3,200 J	12,000 J	410 J
Benzo(k)fluoranthene	<1600 J	250 J	1,700 J	<95000 J	380 J
1,2,4-Trichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Naphthalene	<1600	<400	<33000 J	<95000 J	110 J
Benzo(a)anthracene	<1600	<400	<33000 J	<95000 J	<450
Chrysene	<1600	230	2,400 J	<95000 J	370 J
4-Chloro-3-methylphenol	<1600	<400	<33000 J	<95000 J	<450
2-Methylnaphthalene	<1600	<400	<33000 J	<95000 J	1,600
Pentachlorophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Phenanthrene	71 J	<400	1,600 J	10,000 J	660
Anthracene	<1600	<400	<33000 J	<95000 J	170 J
Di-n-octyl phthalate	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Fluoranthene	110 J	340 J	3,900 J	13,000 J	840
Pyrene	98 J	440	3,100 J	11,000 J	1,000
Dimethyl phthalate	<1600	<400	<33000 J	<95000 J	56 J
Acenaphthylene	<1600	<400	<33000 J	<95000 J	<450
Fluorene	<1600	<400	<33000 J	<95000 J	<450
Butylbenzylphthalate	<1600	<400	<33000 J	<95000 J	<450
Total Semivolatile Organic Compounds	379	1,640	15,900	46,000	5,866

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-13	B-14	B-14
Sample Depth (ft):	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
	S	S	N	S	S
Parameter (ug/kg)					
N-Nitrosodiphenylamine	<45000 J	<2500	<370	<54000 J	<430
1,2-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Diethylphthalate	<45000 J	<2500	<370	<54000 J	<430
Di-n-butylphalate	<45000 J	280 J	<370	<54000 J	<430
Phenol	<45000 J	<2500	<370	<54000 J	<430
Hexachlorobenzene	<45000 J	<2500	<370	<54000 J	<430
bis(2-Chloroethyl)ether	<45000 J	<2500	<370	<54000 J	<430
2-Chlorophenol	<45000 J	<2500	<370	<54000 J	<430
2,4-Dinitrotoluene	<45000 J	<2500	<370	<54000 J	<430
1,4-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Benzo(g,h,i)perylene	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Benzo(a)pyrene	4,600 J	3,100 J	710 J	4,500 J	1,300 J
Indeno(1,2,3-cd)pyrene	<45000 J	<2500 J	<370 J	<54000 J	260 J
4-Methylphenol	<45000 J	<2500	<370	<54000 J	<430
N-nitroso-di-n-propylamine	<45000 J	<2500	<370	<54000 J	<430
Acenaphthene	<45000 J	750 J	240 J	<54000 J	<430
bis(2-Ethylhexyl)phthalate	<45000 J	<8,400	<1,900	<54000 J	<2,700 J
4-Nitrophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Isophorone	<45000 J	<2500	<370	<54000 J	<430
Dibenzofuran	<45000 J	410 J	140 J	<54000 J	200 J
2,4-Dimethylphenol	<45000 J	310 J	<370	<54000 J	1,100
Benzoic acid	<220,000 J	<13000	<1800	<260,000 J	79 J
Benzo(b)fluoranthene	12,000 J	5,100 J	960 J	3,500 J	4,000 J
Benzo(k)fluoranthene	<45000 J	<2500 J	210 J	<54000 J	<430 J
1,2,4-Trichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Naphthalene	<45000 J	390 J	49 J	<54000 J	150 J
Benzo(a)anthracene	6,200 J	3,800	840	<54000 J	1,500 J
Chrysene	7,000 J	4,100	880	<54000 J	1,500 J
4-Chloro-3-methylphenol	<45000 J	<2500	<370	<54000 J	<430
2-Methylnaphthalene	<45000 J	410 J	130 J	<54000 J	350 J
Pentachlorophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Phenanthrene	7,400 J	5,600	1,600	3,900 J	2,400
Anthracene	1,600 J	1,300 J	440	<54000 J	580
Di-n-octyl phthalate	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Fluoranthene	13,000 J	7,600	1,800	11,000 J	2,900
Pyrene	11,000 J	9,500	2,400	10,000 J	4,300 J
Dimethyl phthalate	<45000 J	<2500	<370	<54000 J	<430
Acenaphthylene	<45000 J	200 J	<370	<54000 J	190 J
Fluorene	<45000 J	880 J	340 J	<54000 J	<430
Butylbenzylphthalate	<45000 J	<2500	<370	<54000 J	<430 J
Total Semivolatile Organic Compounds	62,800	43,730	10,739	32,900	20,809

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16
Sample Depth (ft):	13-19	0-7	7-10	10-17	0-5
Sample Date:	10/7/88	10/10/88	10/10/88	10/17/88	10/10/88
	S/B*	S	S	N	S
Parameter (ug/kg)					
N-Nitrosodiphenylamine	<390	<1500	<58000 J	<53000	<58000
1,2-Dichlorobenzene	<390	590 J	<58000 J	<53000	<58000
Diethylphthalate	<390	<1500	<58000 J	<53000	<58000
Di-n-butylphalate	<390	<1500	1,800 J	<53000	<58000
Phenol	<390	<1500	<58000 J	<53000	<58000
Hexachlorobenzene	<390	<1500	<58000 J	<53000	<58000
bis(2-Chloroethyl)ether	<390	<1500	<58000 J	<53000	<58000
2-Chlorophenol	<390	<1500	<58000 J	<53000	<58000
2,4-Dinitrotoluene	<390	<1500	<58000 J	<53000	<58000
1,4-Dichlorobenzene	<390	<1500	<58000 J	<53000	<58000
Benzo(g,h,i)perylene	<390	<1500	<58000 J	<53000	<58000
Benzo(a)pyrene	<390	2,900	<58000 J	<53000	<58000
Indeno(1,2,3-cd)pyrene	<390	500 J	<58000 J	<53000	<58000
4-Methylphenol	<390	<1500	<58000 J	<53000	<58000
N-nitroso-di-n-propylamine	<390	<1500	<58000 J	<53000	<58000
Acenaphthene	<390	480 J	<58000 J	<53000	<58000
bis(2-Ethylhexyl)phthalate	<530	15,000 BJ	<58000 J	<53000	<58000
4-Nitrophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Isophorone	<390	<1500	<58000 J	<53000	<58000
Dibenzofuran	<390	280 J	<58000 J	<53000	<58000
2,4-Dimethylphenol	<390	27,000	12,000 J	<53000	<58000
Benzoic acid	<1900	<7100	<280,000 J	<260,000	<280,000
Benzo(b)fluoranthene	<390	3,300	<58000 J	1,500 J	<58000
Benzo(k)fluoranthene	<390	<1500	2,400 J	<53000	<58000
1,2,4-Trichlorobenzene	<390	170 J	<58000 J	<53000	<58000
Naphthalene	<390	510 J	<58000 J	<53000	<58000
Benzo(a)anthracene	<390	4,400 J	<58000 J	<53000	<58000
Chrysene	<390	4,700 J	<58000 J	<53000	9,000 J
4-Chloro-3-methylphenol	<390	<1500	<58000 J	<53000	<58000
2-Methylnaphthalene	<390	1,900	<58000 J	<53000	<58000
Pentachlorophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Phenanthrene	<390	3,200	4,400 J	2,400 J	<58000
Anthracene	<390	600 J	<58000 J	<53000	1,700 J
Di-n-octyl phthalate	<390	<1500	<58000 J	<53000	<58000
Fluoranthene	<390	10,000	9,000 J	3,600 J	13,000 J
Pyrene	<390	6,600 J	6,500 J	3,400 J	14,000 J
Dimethyl phthalate	<390	<1500	<58000 J	<53000	<58000
Acenaphthylene	<390	160 J	<58000 J	<53000	<58000
Fluorene	<390	510 J	<58000 J	<53000	<58000
Butylbenzylphthalate	<390	<1500	<58000 J	<53000	<58000
Total Semivolatile Organic Compounds	--	65,800	36,100	10,900	37,700

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-3. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16	B-16
Sample Depth (ft):	5-7	7-11
Sample Date:	10/10/88	10/10/88
	S	N
Parameter (ug/kg)		
N-Nitrosodiphenylamine	<51000	<400
1,2-Dichlorobenzene	<51000	<400
Diethylphthalate	<51000	22 J
Di-n-butylphalate	<51000	48 J
Phenol	<51000	<400
Hexachlorobenzene	<51000	<400
bis(2-Chloroethyl)ether	<51000	<400
2-Chlorophenol	<51000	<400
2,4-Dinitrotoluene	<51000	<400
1,4-Dichlorobenzene	<51000	<400
Benzo(g,h,i)perylene	<51000	<400
Benzo(a)pyrene	<51000	<400
Indeno(1,2,3-cd)pyrene	<51000	<400
4-Methylphenol	<51000	<400
N-nitroso-di-n-propylamine	<51000	<400
Acenaphthene	<51000	<400
bis(2-Ethylhexyl)phthalate	<51000	<520
4-Nitrophenol	<250,000	<1900
Isophorone	<51000	<400
Dibenzofuran	<51000	<400
2,4-Dimethylphenol	<51000	<400
Benzoic acid	<250,000	<1900
Benzo(b)fluoranthene	<51000	<400
Benzo(k)fluoranthene	<51000	<400
1,2,4-Trichlorobenzene	<51000	<400
Naphthalene	<51000	<400
Benzo(a)anthracene	<51000	<400
Chrysene	<51000	<400
4-Chloro-3-methylphenol	<51000	<400
2-Methylnaphthalene	<51000	<400
Pentachlorophenol	<250,000	<1900
Phenanthrene	3,000 J	<400
Anthracene	<51000	<400
Di-n-octyl phthalate	<51000	<400
Fluoranthene	6,100 J	15 J
Pyrene	5,400 J	<400
Dimethyl phthalate	<51000	<400
Acenaphthylene	<51000	<400
Fluorene	<51000	<400
Butylbenzylphthalate	<51000	<400
Total Semivolatile Organic Compounds	14,500	85

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth:	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88	9/28/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
gamma Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	1.9 J	0.24 J	<1	<0.099	12 J	0.120 J
Aroclor 1254	1.4 J	0.13 J	4 J	0.13 J	8 J	0.087 J
Total PCBs	3.3	0.37	4	0.13	20	0.207

All results reported in parts per million (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6	B-7
Sample Type:	S	S	S*/N	S	N	S/N*
Sample Depth:	0-2	2-6	2-4	0-2	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88	9/29/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.570	<2.9	<0.590	0.72 J	<0.097	<0.48
gamma Chlordane	<0.570	<2.9	<0.590	0.75 J	<0.097	<0.48
Total Pesticides	--	--	--	1.47	--	--
PCBs						
Aroclor 1248	7.0	38 J	2.3	6.5 J	<0.097	<0.48
Aroclor 1254	4.9	27 J	2.3	5.7 J	<0.19	0.73 J
Total PCBs	11.9	65	4.6	12.2	--	0.73

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-8	B-9	B-9	B-10	B-10
Sample Type:	S	N	S	N	S	N
Sample Depth:	0-2	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	4.3 J	0.092 J	<1.6	<0.094	<6.7 J	<0.48
gamma Chlordane	5.4 J	0.11 J	<1.6	<0.094	<6.7 J	<0.48
Total Pesticides	9.7	0.202	--	--	--	--
PCBs						
Aroclor 1248	<6.5	<0.094	3.6	0.9	39 J	39
Aroclor 1254	<13	0.24 J	2.7	0.54	25 J	25
Total PCBs	--	0.24	6.3	1.44	64	64

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12	B-13
Sample Type:	S	N	S	S	N	S
Sample Depth:	0-4	4-6	0-5	5-7	7-9	0-5
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88	10/6/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
gamma Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	<1.9	2.5	19 J	<6.2 J	0.86	33 J
Aroclor 1254	<3.9	1.7	<4.5 J	10 J	0.63	19 J
Total PCBs	--	4.2	19	10	1.49	52

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-14	B-14	B-14	B-15
Sample Type:	S	N	S	S	S/N*	S
Sample Depth:	5-9	9-11	0-8	8-13	13-19	0-7
Sample Date:	10/6/88	10/6/88	10/7/88	10/7/99	10/7/88	10/10/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
gamma Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	15	2.0	39 J	5.7	<0.094	40 J
Aroclor 1254	13	1.8	25 J	5.1	1.5	<3.5
Total PCBs	28	3.8	64	10.8	1.5	40

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-4. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-15	B-16	B-16	B-16	
Sample Type:	S	N	S	S	N	
Sample Depth:	7-10	10-17	0-5	5-7	7-11	
Sample Date:	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88	
Parameter (ppm)						
Pesticides						
alpha Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
gamma Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	21	<3.5	51	88	<0.096	
Aroclor 1254	12	9.2	22	51	0.086 J	
Total PCBs	33	9.2	73	139	0.086	--

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27	9/27	9/27	9/27	9/28	9/28
Parameter (mg/kg)						
Aluminum	21570 D	536 D	7,290 D	2,830 D	5,440 D	533 D
Antimony	<19.5	<5.4	<17.4	<5.6	<6.2	<4.9
Arsenic	9.1	<0.55	2.0 J	3.0	4.3	<0.6
Barium	110	8.9 J	58.2	13.8J	39 J	<8.1
Beryllium	1.43 QJ	<0.13	0.320 J	<0.13	0.220 JD	<0.12
Cadmium	36.1 QJ	0.80 JQ	54.9 QJ	1.2 Q	15.3 QJ	<0.39
Calcium	1,560 J	51.3 J	1,010 J	222	586 J	48.2 J
Chromium	1,320	44.1	1,700	97.8	502	28.8
Cobalt	13.8 JD	<1.1	5.7 JD	108 JD	4.9 JD	<0.98
Copper	95.5	<2.4	89.3	6.0	31.3	<2.6
Iron	18,560 D	1,370 D	6,380 D	3,600 D	6,120 D	908 D
Lead	128 D	2.1 D	22.4 D	2.7 D	23.2 D	2.6 D
Magnesium	2,330	87.9	839	475 J	671 J	91.7 J
Manganese	473 QDJ	12.2 QDJ	131 QDJ	44.4 QDJ	148 QDJ	12.0 QDJ
Mercury	1.7	<0.08	<0.11	<0.10	<0.17	<0.08
Nickel	25.1 D	<2.4	15.3 D	<2.5	8.1 JD	<2.2
Potassium	1,100 J	106 J	382 J	349 J	323 J	87.4 J
Selenium	<0.35	0.32 QJ	0.43 JWQ	0.25 JWQ	<0.3 JWQ	0.323 QJ
Silver	51.1 D	0.64 JD	41.2 D	0.54 JD	20.1 D	<0.39
Sodium	<279	<186	<250	<193	215	<169
Thallium	<0.61	<0.33	<0.54	<0.41	<0.44	<0.36
Vanadium	33.2 D	<0.87	17.1 D	4.3 J	10.55 D	1.2 JD
Zinc	672 D	11.6 D	521 D	34.9 D	217 D	7.2 D
Cyanide	16.2	<0.72	<0.79	<0.69	2.3	<0.63

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6
Sample Type:	S	S	S*/N	S	N
Sample Depth (ft):	0-2	2-6	2-4	0-2	2-4
Sample Date:	9/28	9/28	9/28	9/29	9/29
Parameter (mg/kg)					
Aluminum	12,890 D	15,400 D	5,500 D	20,700 D	420 D
Antimony	<7.4	<6.9	<5.8	<7.8	<5.8
Arsenic	7.5	8.5	4.1	10.0	<0.51
Barium	60.1	69.2	45.3 J	136	<9.5
Beryllium	0.79 JD	1.1 JD	0.14 JD	1.5 JD	<0.14
Cadmium	2.8 QJ	5.9 QJ	15.8 QJ	11.1 QJ	<0.46
Calcium	6,270	5,200	1,210	2,400	53.2 J
Chromium	125	322	377	664	124
Cobalt	7.2 JD	7.5 JD	4.6 J	17.4 D	<1.2
Copper	34.4	55.5	43.5	62.1	<3.0
Iron	15,200 D	17,200 D	7,240 D	20,400 D	661 D
Lead	135 D	145 D	96.7 D	85.9 D	0.90 JD
Magnesium	2,580	2,400	783 J	3,060	69.9 J
Manganese	290 QDJ	233 QDJ	214 QDJ	359 QDJ	9.2 QDJ
Mercury	0.26	0.36	<0.10	<0.18	<0.10
Nickel	9.2 JD	13.4 D	10.2 D	20.3 D	2.5 D
Potassium	559 J	512 J	337 J	1,430 J	80.5 J
Selenium	<0.35	<0.35	<0.28	<0.38	<0.24
Silver	2.3 J	8.6 D	43.4 D	46.2 D	<0.46
Sodium	<255	<237	201	<270	<199
Thallium	<0.53	<0.51	<0.38	<0.58	<0.30
Vanadium	25.6 D	39.3 D	14.5 D	35.2 D	1.1 JD
Zinc	144 D	260 D	288 D	461 D	3.7 JD
Cyanide	<0.78	<0.85	2.3	4.1	<0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-7	B-8	B-8	B-9	B-9
Sample Type:	S/N*	S	N	S	N
Sample Depth (ft):	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29	9/29	9/29	10/4	10/4
Parameter (mg/kg)					
Aluminum	1,310 D	16,600 D	1,030 D	44,700 D	972 D
Antimony	<5.8	<7.8	<5.3	<24.9	<5.6
Arsenic	1.0 J	13.3	<0.60	20.1 QJ	<1.1
Barium	<9.5	139	<8.6	461	13.5
Beryllium	<0.14	0.98 JD	<0.13	3.3 J	<0.14
Cadmium	2.8 QJ	55.9 QJ	1.3 JQ	180 QDJ	1.3 QDJ
Calcium	1,620	4,090	112 J	9,530 D	110 JD
Chromium	299	1,260	63.8	7,250 QDJ	65.3 QDJ
Cobalt	1.2 D	12.2 D	<1.0	29.6 J	<11
Copper	16.1	81.7	3.9 J	556 D	4.1 JD
Iron	1,420 D	17,200 D	922 D	42,900 D	1,490 D
Lead	18.1 D	208 D	9.3 D	864	4.9
Magnesium	968 J	2,390	111 J	3,460 JD	100 JD
Manganese	25.6 QDJ	324 QDJ	18.0 QDJ	1,520 QDJ	21.7 QDJ
Mercury	<0.11	0.95	0.46	6.4	<0.10
Nickel	<2.6	18.6 D	<2.3	58.6 D	<2.5
Potassium	134	822 J	127 J	1,300 J	<65.3
Selenium	<0.23	0.35 JWQ	<0.22	<1.1	<0.27
Silver	2.4 D	60.7 D	1.2 JD	357 D	0.50 JD
Sodium	<199	307 J	<182	<857	<194
Thallium	<0.36	<0.62	<0.36	<1.9	<0.55
Vanadium	4.1 JD	32.4 D	<0.84	96.5	2.8 J
Zinc	46.4 D	478 D	30.1 D	7,470 QDJ	32.8 QDJ
Cyanide	1.4	<1.0	<0.59	24.8	0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12
Sample Type:	S	N	S	N	S
Sample Depth (ft):	0-4	4-6	0-4	4-6	0-5
Sample Date:	10/5	10/5	10/5	10/5	10/6
Parameter (mg/kg)					
Aluminum	34,700 D	1,080 D	35,900 D	3,710 D	13,600 D
Antimony	<30.2	<5.9	<11.1	<5.6	9.6 J
Arsenic	15.9 QJ	<1.2	34.4 SQJ	1.4 JQ	<1.9
Barium	297	8.7 JD	174	21.7 J	22.0 JD
Beryllium	4.1 J	<0.14	1.3 J	0.17 J	<0.21
Cadmium	267 QDJ	3.0 QDJ	2.6 QDJ	3.6 QDJ	57.7 QDJ
Calcium	13,900 D	263 JD	1,520 JD	443 JD	499 JD
Chromium	11,400 QDJ	169 QDJ	26.7 QDJ	185 QDJ	6,280 QDJ
Cobalt	29.5 J	1.4 J	12.8 J	2.0 J	5.3 J
Copper	779 D	9.0 D	78.5 D	16.8 D	1,010 D
Iron	47,600 D	1,940 D	22,800 D	3,710 D	2,320 D
Lead	740 QDJ	15.3	34.4 S	19.8	108 QDJ
agnesium	5,500 JD	154 JD	1,600 JD	330 JD	1,330 JD
anganese	1,730 QDJ	38.2 QDJ	432 QDJ	72.1 QDJ	124 QDJ
Mercury	5.4	<0.09	0.25	0.22	<0.16
Nickel	90.2 D	3.7 JD	15.6 JD	3.3 JD	13.0 JD
Potassium	894 J	95.1 J	867 J	205 J	<100
Selenium	<1.5	<0.28	1.4 JWQ	0.26 JQ	<0.45
Silver	360 D	5.4 D	<0.89	4.7 D	2.0 JD
Sodium	<1040	<203	481 J	<192	<298
Thallium	<2.8	<0.53	<1.1	<0.54	<0.77
Vanadium	142	3.3 J	33.0	7.9 J	17.4
Zinc	3,840 QDJ	66.6 QDJ	149 QDJ	85.9 QDJ	2,370 QDJ
Cyanide	116	1.7	3.2	3.6	10.2

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-12	B-12	B-13	B-13	B-13
Sample Type:	S	N	S	S	N
Sample Depth (ft):	5-7	7-9	0-5	5-9	9-11
Sample Date:	10/6	10/6	10/6	10/6	10/6
Parameter (mg/kg)					
Aluminum	21,400 D	3,210 D	19,900 D	12,000 D	3,240 D
Antimony	<20.5	<7.8	<13.3	<9.4	<5.2
Arsenic	12.7 QJ	2.8 J	10.4 QJ	4.2 QJ	1.5 JWQ
Barium	316	24.3 JD	125	91.5	31.6 JD
Beryllium	<0.49	<0.19	0.70 J	0.89 J	<0.13
Cadmium	252 QDJ	5.6 QDJ	57.6 QDJ	45.9 QDJ	9.4 QDJ
Calcium	103,000 D	9,960 D	18,000 D	18,900 D	12,600 D
Chromium	6,740 D	248 QDJ	8,010 QDJ	4,420 QDJ	630 QDJ
Cobalt	27.3 J	2.4 J	18.2 J	10.5 J	3.1 J
Copper	217 D	16.4 D	666 D	294 D	38.0 D
Iron	49,700 D	4,880 D	42,400 D	26,000 D	7,930 D
Lead	374 QDJ	73.4 QDJ	289 QDJ	212 QDJ	37.3
Magnesium	9,940 D	895 JD	5,270 D	3,450 D	2,820 D
Manganese	1,290 QDJ	85.8 QDJ	894 QDJ	500 QDJ	156 QDJ
Mercury	5.2	0.48	1.4	1.1	0.23
Nickel	42.5 D	5.4 JD	39.1 D	25.6 D	6.1 JD
Potassium	578 J	327 J	475 J	312 J	191 J
Selenium	<0.86	<0.38	<0.64	<0.42	<0.22
Silver	139 D	5.0 D	106 D	62.1 D	10.9 D
Sodium	<707	<268	<458	<322	<180
Thallium	<2.0	<0.85	<0.96	<0.43	<0.38
Vanadium	84.8	8.2 J	63.1 J	34.5	11.0
Zinc	2,500 QDJ	97.1 QDJ	2,680 QDJ	1,400 QDJ	209 QDJ
Cyanide	41.6	9.2	17.4	14.2	4.4

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-14	B-14	B-15	B-15
Sample Type:	S	S	S/N*	S	S
Sample Depth (ft):	0-8	8-13	13-19	0-7	7-10
Sample Date:	10/7	10/7	10/7	10/10	10/10
Parameter (mg/kg)					
Aluminum	24,600 D	10,400 D	476 D	30,300	29,300
Antimony	<14.8	<8.1	<4.9	15.6 J	14.4 J
Arsenic	7.0 SQJ	6.7 QJ	<0.55	9.9 QJ	11.3 QJ
Barium	93.8 JD	123	<8.1	168	<23.2
Beryllium	0.95 JQD	<0.20	<0.12	3.3	5.9
Cadmium	50.2 QDJ	63.8 QDJ	<0.46	59.5	63.9
Calcium	6,360 D	18,400 D	165 JD	30,600	24,700
Chromium	4,880 QDJ	2,370 QDJ	16.7 QDJ	9,250	8,550
Cobalt	13.5 J	10.3 J	<0.99	21.4 J	18.7 J
Copper	494 D	95.3 D	<2.6	1,130	1,040
Iron	22,900 D	25,000 D	1,430 D	43,600	39,400
Lead	257 QDJ	234 QDJ	1.6	368	358
Magnesium	4,150 D	3,220 D	91.4 JD	8,860	8,110
Manganese	384 QDJ	658 QDJ	10.9 QDJ	1,220	978
Mercury	0.71	0.54	<0.10	1.2	0.78
Nickel	41.3 D	23.6 D	<2.2	53.8	55.9
Potassium	697 J	569 J	<37.4	714 J	550 J
Selenium	0.70 J	<0.36	0.75 JQ	<0.75	0.99 JQ
Silver	24.5 D	86.5 D	<0.40	149 D	78.3 D
Sodium	<509	505 J	<170	859 J	812 J
Thallium	<0.90	<0.56	<0.33	<1.6	<1.3
Vanadium	85.1	32.3	1.2 J	57.1	60.0
Zinc	1,400 QDJ	968 QDJ	6.5 QDJ	4,240	3,820
Cyanide	30.0	14.7	<0.65	84.0	44.0

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-5. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-16	B-16	B-16
Sample Type:	N	S	S	N
Sample Depth (ft):	10-17	0-5	5-7	7-11
Sample Date:	10/10	10/10	10/10	10/10
Parameter (mg/kg)				
Aluminum	25,500	34,600	26,700	659
Antimony	13.8 J	<16.4	<12.3	<5.7
Arsenic	13.3 QJ	13.4 QJ	12.1 QJ	<0.60
Barium	420	198	151	<9.4
Beryllium	<0.31	4.6	6.4	<0.14
Cadmium	85.5	66.0	56.4	<0.46
Calcium	24,400	18,800	14,300	123 J
Chromium	3,840	8,010	5,440	8.5
Cobalt	22.4 J	22.8 J	15.4 J	<1.1
Copper	333	970	865	<3.0
Iron	48,500	46,600	30,400	1,450
Lead	686	422	348	<4.8
Magnesium	7,640	7,030	5,530	110 J
Manganese	982	959	625	26.5
Mercury	2.3	1.2	0.66	<0.08
Nickel	47.2	57.7	45.5	<2.5
Potassium	1200 J	754 J	525 J	120 J
Selenium	1.9 JQW	1.4 JQW	0.57 SQJ	<0.24
Silver	115 D	79.8 D	52.9 D	<0.46
Sodium	1210 J	605 J	442 J	<197
Thallium	<1.5	<1.6	<1.1	<0.56
Vanadium	65.8	94.2	74.1	2.2 J
Zinc	1,800	3,650	3,040	8.0
Cyanide	9.5	45.2	53.6	<0.65

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 3-6. Results of EP Toxicity Testing of Soil Samples Collected from the Old Recharge Basin in September and October 1988, Fairchild Republic Company, East Farmingdale, New York.

Parameter (mg/L):				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
				5.0a	100.0a	1.0a	5.0a	5.0a	0.2a	1.0a	5.0a
Sample Designation	Sample Type	Sample Depth (feet)	Sample Date								
B-1	N	4-7	9/27/88	<1.0	<0.20	0.05	0.01	<0.20	<0.002	<0.5	<0.01
B-2	S	5-7	9/27/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-3	S	2-4	9/28/88	<1.0	<0.20	0.02	0.01	<0.20	<0.002	<0.5	<0.01
B-4	S	2-6	9/28/88	<1.0	0.36	0.04	0.02	<0.20	<0.002	<0.5	<0.01
B-5	S/N	2-4	9/28/88	<1.0	<0.20	0.32	<0.01	<0.20	<0.002	<0.5	<0.01
B-6	S	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-7	S/N	0-2	9/29/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-8	N	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-9	N	4-6	10/4/88	<1.0	<0.20	0.02	0.02	<0.20	<0.002	<0.5	<0.01
B-10	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-11	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-12	N	7-9	10/6/88	<1.0	0.38	0.06	0.05	<0.20	<0.002	<0.5	<0.01
B-13	N	9-11	10/6/88	<1.0	0.21	0.04	<0.01	<0.20	<0.002	<0.5	<0.01
B-14	S/N	13-19	10/7/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-15	S/N	10-17	10/10/88	<1.0	0.37	<0.01	0.03	<0.20	<0.002	<0.5	<0.01
B-16	S/N	7-11	10/10/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01

All results in milligrams per liter (mg/L).

a Minimum concentration (mg/L) required for declaring a material hazardous.

S Sediment.

N Native soil.

* Designates dominant component of composite sample.

Table 3-7. Results of Total Metal Analyses of Bottom Sediment Samples From the Fairchild-Republic Storm-Water Sump (June 3, 1982: concentrations in ug/g). From York Wastewater Consultants, Inc., Report of July 1982.

Sampling Point	Depth (feet)	Chromium (total)	Titanium	Lead	Aluminum	Copper	Iron	Cadmium
1	27	60,790	1,539	800	100,000	24	9,994	46
1	34	35,483	1,529	1,470	16,000	523	171,171	244
2	35	43,448	1,418	800	72,000	21	19,976	124
2	40	9,995	939	1,640	30,000	13	54,221	300
3	42	46,495	1,260	580	65,000	14	17,000	24
3	48	15,500	2,049	600	44,000	11	33,000	77
4	35	55,795	6,325	621	70,945	16	9,237	53
4	42	22,498	7,599	530	45,295	76	17,298	74

Depths to sediment

Point 1 = 25 feet
Point 2 = 35 feet
Point 3 = 42 feet
Point 4 = 35 feet

Table 3-8. Results of EP Toxicity Analyses of Bottom Sediment Samples From the Fairchild-Republic Storm-Water Sump Collected on April 18, 1985 (concentrations are in micrograms per liter).

Sampling Point (1)	Chromium (2) (hexavalent)	Chromium (2) (total)	Titanium (3)	Lead (4)	Aluminum (5)	Copper (2)	Iron	Cadmium (6)
1	ND	ND	ND	ND	ND	ND	3.6	0.07
2	<0.06	ND	ND	0.007	0.10	0.08	34	0.027
3	ND	ND	ND	0.008	0.09	ND	14	0.12
4	ND	ND	ND	ND	ND	ND	13	ND
Federal Limits	5.0	5.0	None	5.0	None	None	None	1.0

(1) Samples were collected at the same locations as those collected by York Wastewater Consultants, Inc. All samples were collected 1 to 2 feet into the bottom sediments.
(2) Detection limit 0.02 mg/L
(3) Detection limit 0.10 mg/L
(4) Detection limit 0.005 mg/L
(5) Detection limit 0.05 mg/L
(6) Detection limit 0.001 mg/L

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		A	B		C	D
Sample Designation:		SS-23 (S)	SS-24 (S)	SS-19 (I)	SS-27 (S)	SS-17 (I)
Sample Date:		10/11/88	10/11/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
Acetone	10	--	--	--	--	--
1,2-Dichloroethene (total)	5	--	--	--	--	--
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	--	--	--
Ethylbenzene	5	--	--	--	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	--	--	--
Tetrachloroethene	5	--	--	--	--	--
Benzene	5	--	--	--	--	--
Trichloroethene	5	--	--	--	--	--
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		--	--	--	--	--

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Parameter (ug/L)	Lower Detection Limit	Sample Station: D Sample Designation: SS-20 (S) Sample Date: 10/11/88	Sample Station: E Sample Designation: SS-26 (S) Sample Date: 10/11/88	Sample Station: F Sample Designation: SS-29 (S) Sample Date: 10/12/88	Sample Station: G Sample Designation: SS-22 (S) Sample Date: 10/11/88	Sample Station: H Sample Designation: SS-18 (S) Sample Date: 10/11/88
Acetone	10	--	--	--	30J	--
1,2-Dichloroethene (total)	5	--	--	--	--	--
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	--	--	--
Ethylbenzene	5	--	--	--	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	--	--	--
Tetrachloroethene	5	--	--	--	--	--
Benzene	5	--	--	--	--	--
Trichloroethene	5	--	--	--	--	--
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		--	--	--	30	--

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	H	I	J		K
	Sample Designation:	SS-25 (S)	SS-30 (S)	SS-28 (S)	SS-16 (I)	SS-21 (S)
	Sample Date:	10/11/88	10/12/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
Acetone	10	--	--	--	--	--
1,2-Dichloroethene (total)	5	--	--	--	--	--
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	--	--	--
Ethylbenzene	5	--	--	--	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	--	--	--
Tetrachloroethene	5	--	--	--	--	--
Benzene	5	--	--	--	--	--
Trichloroethene	5	--	--	--	--	--
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		--	--	--	--	--

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	L	N		N	O
	Sample Designation:	SS-1 (S)	SS-2 (S)	SS-3 (I)	SS-13 (S)	SS-5 (S)
	Sample Date:	10/3/88	10/3/88	10/3/88	10/11/88	10/3/88
Parameter (ug/L)	Lower Detection Limit					
Acetone	10	--	--	--	--	--
1,2-Dichloroethene (total)	5	43	32	45	29	34
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	2J	--	--
Ethylbenzene	5	--	--	--	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	--	--	--
Tetrachloroethene	5	66	43	18	32	45
Benzene	5	--	--	--	--	--
Trichloroethene	5	19	12	8	12	13
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		128	87	73	73	92

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-water sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	P	Q		R	S
	Sample Designation:	SS-4 (S)	SS-8 (S)	SS-9 (I)	SS-14 (S)	SS-15 (S)
	Sample Date:	10/3/88	10/3/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
Acetone	10	--	--	--	--	--
1,2-Dichloroethene (total)	5	54	26	26	29	26
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	--	--	--
Ethylbenzene	5	--	--	--	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	--	--	--
Tetrachloroethene	5	61	44	30	36	34
Benzene	5	--	--	--	--	--
Trichloroethene	5	19	13	11	14	12
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		134	83	67	79	72

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		T		U	V	
Sample Designation:		SS-6 (S)	SS-7 (I)	SS-10 (S)	SS-11 (S)	SS-12 (I)
Sample Date:		10/3/88	10/3/88	10/3/88	10/3/88	10/3/88
Parameter (ug/L)	Lower Detection Limit					
Acetone	10	--	--	--	--	--
1,2-Dichloroethene (total)	5	32	32	30	29	26
Chloroform	5	--	--	--	--	--
Toluene	5	--	--	3J	--	--
Ethylbenzene	5	--	--	2J	--	--
Styrene	5	--	--	--	--	--
Xylene (total)	5	--	--	2J	--	--
Tetrachloroethene	5	44	47	51	52	40
Benzene	5	--	--	2J	--	--
Trichloroethene	5	13	20	13	22	12
Carbon disulfide	5	--	--	--	--	--
Total Volatile Organic Compounds		89	99	103	103	78

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-9. Concentrations of Volatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:			
Sample Designation:		Trip Blank	Trip Blank
Sample Data:		10/3/88	10/11/88
Parameter (ug/L)	Lower Detection Limit		
Acetone	10	--	--
1,2-Dichloroethene (total)	5	--	--
Chloroform	5	2J	--
Toluene	5	--	--
Ethylbenzene	5	--	--
Styrene	5	--	--
Xylene (total)	5	--	--
Tetrachloroethene	5	--	--
Benzene	5	--	--
Trichloroethene	5	--	--
Carbon disulfide	5	--	--
Total Volatile Organic Compounds		2	--

All results reported in micrograms per liter (ug/L).

-- Not detected.

B Detected in the Reagent blank.

J The concentration listed is less than the specified detection limit after dilution.

S Shallow surface-water sample.

I Intermediate surface-sater sample.

Table 3-10. Concentrations of Semivoletile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		A	B		C	D
Sample Designation:		SS-23 (S)	SS-24 (S)	SS-19 (I)	SS-27 (S)	SS-17 (I)
Sample Date:		10/11/88	10/11/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	--	--	--
Diethylphthalate	10	--	1J	--	--	--
N-Nitrosodiphenylamine	10	--	--	--	--	--
Hexachlorobenzene	10	--	--	--	--	--
Phenanthrene	10	--	--	--	--	--
Anthracene	10	--	--	--	--	--
Di-n-butyl phthalate	10	--	--	--	--	--
Fluoranthene	10	--	--	--	--	--
Pyrene	10	--	--	--	--	--
Butylbenzylphthalate	10	--	2J	--	--	--
Chrysene	10	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	10	-	<53	--	<12	--
Di-n-Octyl phthalate	10	--	59	--	--	31
Benzo(k)fluoranthene	10	--	--	--	--	--
Benzo(a)pyrene	10	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	--
Total Semivolatile Organic Compounds		--	62	--	--	31

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-10. Concentrations of Semivolatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		D	E	F	G	H
Sample Designation:		SS-20 (S)	SS-26 (S)	SS-29 (S)	SS-22 (S)	SS-18 (I)
Sample Date:		10/11/88	10/11/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	--	--	--
Diethylphthalate	10	--	--	2JB	--	1J
N-Nitrosodiphenylamine	10	--	--	--	--	--
Hexachlorobenzene	10	--	--	--	--	--
Phenanthrene	10	--	--	--	--	--
Anthracene	10	--	--	--	--	--
Di-n-butyl phthalate	10	--	--	--	--	--
Fluoranthene	10	--	--	--	--	--
Pyrene	10	--	--	--	--	--
Butylbenzylphthalate	10	--	--	--	--	--
Chrysene	10	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	10	<17	<14	<11	--	<23
Di-n-Octyl phthalate	10	--	--	--	--	--
Benzo(k)fluoranthene	10	--	--	--	--	--
Benzo(a)pyrene	10	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	--
Total Semivolatile Organic Compounds		--	--	--	--	1

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-10. Concentrations of Semivolatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		H	I	J		K
Sample Designation:		SS-25 (S)	SS-30 (S)	SS-28 (S)	SS-16 (I)	SS-21(S)
Sample Date:		10/11/88	10/11/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	--	--	--
Diethylphthalate	10	--	--	--	--	4JB
N-Nitrosodiphenylamine	10	--	--	--	--	4J
Hexachlorobenzene	10	--	--	--	--	2J
Phenanthrene	10	--	--	--	--	3J
Anthracene	10	--	--	--	--	2J
Di-n-butyl phthalate	10	--	--	--	--	9J
Fluoranthene	10	--	--	--	--	6J
Pyrene	10	--	--	--	--	5J
Butylbenzylphthalate	10	--	--	--	--	6J
Chrysene	10	--	--	--	--	2J
bis(2-Ethylhexyl)phthalate	10	<17	<16	<16	<36	<15
Di-n-Octyl phthalate	10	--	--	--	--	6J
Benzo(k)fluoranthene	10	--	--	--	--	3J
Benzo(a)pyrene	10	--	--	--	--	3J
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	3J
Total Semivolatile Organic Compounds		--	--	--	--	54

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-10. Concentrations of Semivolatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		L	M		N	O
Sample Designation:		SS-1(S)	SS-2 (S)	SS-3 (I)	SS-13 (S)	SS-5 (S)
Sample Date:		10/3/88	10/3/88	10/3/88	10/11/88	10/3/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	7J	--	--
Diethylphthalate	10	--	--	--	--	--
N-Nitrosodiphenylamine	10	--	--	--	--	--
Hexachlorobenzene	10	--	--	--	--	--
Phenanthrene	10	--	--	--	--	--
Anthracene	10	--	--	--	--	--
Di-n-butyl phthalate	10	--	--	--	--	--
Fluoranthene	10	--	--	--	--	--
Pyrene	10	--	--	--	--	--
Butylbenzylphthalate	10	--	--	2J	--	--
Chrysene	10	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	10	--	--	--	--	--
Di-n-Octyl phthalate	10	--	--	3J	0.9J	--
Benzo(k)fluoranthene	10	--	--	--	--	--
Benzo(a)pyrene	10	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	--
Total Semivolatile Organic Compounds		--	--	12	0.9	--

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-10. Concentrations of Semivolatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		P	Q		R	S
Sample Designation:		SS-4 (S)	SS-8 (S)	SS-9 (I)	SS-14 (S)	SS-15 (S)
Sample Date:		10/3/88	10/3/88	10/11/88	10/11/88	10/11/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	--	--	--
Diethylphthalate	10	--	--	2J	0.9J	1J
N-Nitrosodiphenylamine	10	--	--	--	--	--
Hexachlorobenzene	10	--	--	--	--	--
Phenanthrene	10	--	--	--	--	--
Anthracene	10	--	--	--	--	--
Di-n-butyl phthalate	10	--	--	--	--	--
Fluoranthene	10	--	--	--	--	--
Pyrene	10	--	--	--	--	--
Butylbenzylphthalate	10	--	--	0.7J	--	--
Chrysene	10	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	10	--	--	<38	--	--
Di-n-Octyl phthalate	10	--	--	41	--	--
Benzo(k)fluoranthene	10	--	--	--	--	--
Benzo(a)pyrene	10	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	--
Total Semivolatile Organic Compounds		--	--	43.7	0.9	1

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-10. Concentrations of Semivolatile Organic Compounds Detected in Surface-Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		T		U	V	
Sample Designation:		SS-6 (S)	SS-7 (I)	SS-10 (S)	SS-11 (S)	SS-12 (I)
Sample Date:		10/3/88	10/3/88	10/3/88	10/3/88	10/3/88
Parameter (ug/L)	Lower Detection Limit					
4-Methylphenol	10	--	--	--	--	--
Diethylphthalate	10	--	--	1J	--	1J
N-Nitrosodiphenylamine	10	--	--	--	--	--
Hexachlorobenzene	10	--	--	--	--	--
Phenanthrene	10	--	--	--	--	--
Anthracene	10	--	--	--	--	--
Di-n-butyl phthalate	10	--	--	--	--	--
Fluoranthene	10	--	--	--	--	--
Pyrene	10	--	--	--	--	--
Butylbenzylphthalate	10	--	--	--	--	--
Chrysene	10	--	--	--	--	--
bis(2-Ethylhexyl)phthalate	10	--	--	--	--	--
Di-n-Octyl phthalate	10	--	--	--	--	--
Benzo(k)fluoranthene	10	--	--	--	--	--
Benzo(a)pyrene	10	--	--	--	--	--
Indeno(1,2,3-cd)pyrene	10	--	--	--	--	--
Total Semivolatile Organic Compounds		--	--	1	--	1

All results reported in micrograms per liter (ug/L).

-- Not detected.
B Detected in Reagent blank.
J Estimated value.
S Shallow surface-water sample.
I Intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Parameter (ug/L)	TOG* Class GA (DWS) ug/L	Sample Station:	A	B		C	D
		Sample Designation:	SS-23 (S)	SS-24 (S)	SS-19 (I)	SS-27 (S)	SS-17 (I)
		Sample Date:	10/11	10/11	10/11	10/11	10/11
Aluminum	NS		174 J	150 J	131 J	177 J	200
Antimony	3 G		<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S		<3.0	<3.0	<3.0	<3.0	<3.0
Barium	1,000 S		42.8 J	47.5 J	<41.0	47.5 J	55.9 J
Beryllium	3 G		<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S		<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS		23,200	22,800	22,600	22,800	22,400
Chromium	NS		4.7 J	5.3 J	3.7 J	6.7 J	7.6 J
Cobalt	NS		<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S		<13.0	<13.0	<13.0	<13.0	<13.0
Iron	300 S		<84.6	<84.0	<84.0	<84.0	98.1 JD
Lead	25 S		<0.70	<0.70	<0.70	<0.70	<0.70
Magnesium	35,000 G		4,240 J	4,150 J	4,130 J	4,140 J	4,090 J
Manganese	300 S		93.4 D	81.5 D	83.4 D	73.6 D	113 D
Mercury	2 S		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	NS		<11.0	<11.0	<11.0	<2.0	<11.0
Potassium	NS		3,220 J	2,920 J	2,770 J	3,440 J	3,300 J
Selenium	10 S		<1.2	<1.2	<1.2	<1.2	<1.2
Silver	50 S		<2.0	<2.0	<2.0	<4.0	<2.0
Sodium	NS		14,300 J	14,200 J	13,700 J	14,200 J	14,200 J
Thallium	4 G		<2.4	<2.4	<2.4	<2.4	<2.4
Vanadium	NS		<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S		11.8 J	6.8 J	8.2 J	10.6 J	20.3
Cyanide	100 S		<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	D	E	F	G	H
	Sample Designation:	SS-20 (S)	SS-26 (S)	SS-29 (S)	SS-22 (S)	SS-18 (I)
	Sample Date:	10/11	10/11	10/12	10/11	10/11
Parameter (ug/L)	TOG* Class GA (DWS) ug/L					
Aluminum	NS	190 J	177 J	148 J	238	142 J
Antimony	3 G	<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	1,000 S	44.7 J	43.3 J	47.5 J	44.7 J	62.9 J
Beryllium	3 G	<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS	22,700	23,100	23,100	22,800	22,500
Chromium	NS	4.8 J	3.1 J	4.3 J	4.9 J	4.7 J
Cobalt	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S	<13.0	<13.0	<13.0	<13.0	<13.0
Iron	300 S	<84.0	<84.0	281 D	<84.0	<84.0
Lead	25 S	<0.70	<0.070	<0.70	<0.70	<0.70
Magnesium	35,000 G	4,130 J	4,180 J	4,200 J	4,150 J	4,110 J
Manganese	300 S	95.5 D	103 D	129 D	101 D	104 D
Mercury	2 S	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	NS	<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS	3,460 J	2,980 J	3,380 J	3,340 J	3,170 J
Selenium	10 S	<1.2	<1.2	<1.2	<1.2	<1.2
Silver	50 S	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	NS	14,000 J	14,200 J	13,800 J	14,200 J	13,900 J
Thallium	4 G	<2.4	<2.4	<2.4	<2.4	<2.4
Vanadium	NS	<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S	12.2 J	21.2	7.4 J	19.7 J	11.6 J
Cyanide	100 S	<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Parameter (ug/L)	TOG* Class GA (DWS) ug/L	Sample Station:	H	I	J		K
		Sample Designation:	SS-25 (S)	SS-30 (S)	SS-28 (S)	SS-16 (I)	SS-21 (S)
		Sample Date:	10/11	10/12	10/11	10/11	10/11
Aluminum	NS		177 J	206	162 J	186 J	120 J
Antimony	3 G		<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S		<3.0	<3.0	<3.0	<3.0	<3.0
Barium	1,000 S		41.9 J	44.7 J	49.8 J	41.9 J	48.4 J
Beryllium	3 G		<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S		<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS		22,400	23,300	22,500	22,300	22,800
Chromium	NS		4.8 J	4.8 J	4.8 J	4.4 J	4.5 J
Cobalt	NS		<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S		<13.0	<13.0	<13.0	<13.0	<13.0
Iron	300 S		<84.0	<84.0	<84.0	<84.0	<84.0
Lead	25 S		<0.70	<0.70	<0.70	<0.70	<0.70
Magnesium	35,000 G		4,090 J	4,240 J	4,080 J	4,060 J	4,170 J
Manganese	300 S		99.0 D	74.3 D	75.8 D	81.9 D	87.9 D
Mercury	2 S		<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	NS		<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS		3,220 J	3,380 J	3,130 J	3,440 J	3,140 J
Selenium	10 S		<1.2	<1.2	<1.2	<1.2	<1.2
Silver	50 S		<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	NS		13,800 J	14,300 J	14,000 J	13,900 J	13,800 J
Thallium	4 G		<2.4	<2.4	<2.4	<2.4	<2.4
Vanadium	NS		<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S		11.8 J	<5.0	<5.0	12 J	6.6 J
Cyanide	100 S		<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	L	M		N	O
	Sample Designation:	SS-1 (S)	SS-2 (S)	SS-3 (I)	SS-13 (S)	SS-5 (S)
	Sample Date:	10/3	10/3	10/3	10/11	10/3
Parameter (ug/L)	TOG* Class GA (DWS) ug/L					
Aluminum	NS	117 J	112 J	130 J	112 J	118 J
Antimony	3 G	<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S	<3.0	<3.0	<3.0	<3.0	<3.0
Barium	1,000 S	51.2 J	82.0 J	90.9 J	54.5 J	51.2 J
Beryllium	3 G	<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS	23,900 D	22,700 D	26,400 D	23,600	23,700 D
Chromium	NS	<13.0	<13.0	<13.0	4.5 J	<13.0
Cobalt	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S	16.2 J	<13.0	<13.0	<13.0	<13.0
Iron	300 S	<84.0	<84.0	461 D	<84.0	<84.0
Lead	25 S	0.9 J	<0.70	<0.70	<0.70	0.70 J
Magnesium	35,000 G	4,600 J	4,380 J	4,620 J	4,430 J	4,570 J
Manganese	300 S	<6.1	<6.1	2,840	46.9 D	<6.1
Mercury	2 S	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	NS	<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS	3,450 J	3,230 J	3,760 J	3,140 J	3,310 J
Selenium	10 S	2.1 J	<1.2	<1.2	<1.2	<1.2
Silver	50 S	<2.0	<2.0	<2.0	<2,0	<2.0
Sodium	NS	16,300 D	15,700 D	15,500 D	15,700 J	16,100 D
Thallium	4 G	<1.8	<1.8	<1.8	<2.4	2.1 J
Vanadium	NS	<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S	<5.0	<5.0	<5.0	18.0 J	<5.0
Cyanide	100 S	<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Parameter (ug/L)	TOG* Class GA (DWS) ug/L	Sample Station: P	Q	Q	R	S
		Sample Designation: SS-4 (S)	SS-8 (S)	SS-9 (I)	SS-14 (S)	SS-15 (S)
		Sample Date: 10/3	10/3	10/11	10/11	10/11
Aluminum	NS	115 J	134 J	112 J	178 J	184 J
Antimony	3 G	<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S	<3.0	<5.1	<3.0	<3.0	<3.0
Barium	1,000 S	52.0 J	50.3	55.9 J	51.2 J	82.0 J
Beryllium	3 G	<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS	23,600 D	23,700 D	23,400	23,100	23,300
Chromium	NS	<13.0	<13.0	4.9 J	4.9 J	8.8 J
Cobalt	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S	<13.0	<13.0	<13.0	<13.0	<13.0
Iron	300 S	<84.0	<84.0	<84.0	<84.0	<84.0
Lead	25 S	<0.70	<0.70	<0.70	<0.70	<0.70
Magnesium	35,000 G	4,530 J	4,540 J	4,400 J	4,370 J	4,370 J
Manganese	300 S	9.5 J	<6.1	46.8 D	27.5 D	73.1
Mercury	2 S	<0.20	<0.20	<0.20	<0.20	<0.20
Nickel	NS	<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS	3,420 J	3,500 J	3,310 J	3,010 J	3,500 J
Selenium	10 S	<1.2	<1.2	<1.2	<1.2	<1.2
Silver	50 S	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	NS	16,200 D	17,700 D	15,700 J	15,700 J	16,000 J
Thallium	4 G	<1.8	<1.8	<2.4	<2.4	<2.4
Vanadium	NS	<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S	<5.0	<5.0	11.2 J	11.0 J	33.9
Cyanide	100 S	<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

	Sample Station:	T		U	V	
	Sample Designation:	SS-6 (S)	SS-7 (I)	SS-10 (S)	SS-11 (S)	SS-12 (I)
	Sample Date:	10/3	10/3	10/3	10/3	10/3
Parameter (ug/L)	TOG* Class GA (DWS) ug/L					
Aluminum	NS	141 J	118 J	103 J	130 J	119 J
Antimony	3 G	<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S	<5.1	<5.1	<5.1	<5.1	<5.1
Barium	1,000 S	52.9	52.0 J	50.3 J	50.3 J	49.4 J
Beryllium	3 G	<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS	24,500 D	23,200 D	23,400 D	23,600 D	22,600 D
Chromium	NS	<13.0	<13.0	<13.0	<13.0	<13.0
Cobalt	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S	<13.0	13 J	<13.0	<13.0	<13.0
Iron	300 S	<84.0	<84.0	<84.0	<84.0	<84.0
Lead	25 S	<0.70	<0.70	<0.70	<0.70	<0.70
Magnesium	35,000 G	4,680 J	4,450 J	4,490 J	4,510 J	4,350 J
Manganese	300 S	<6.1	<6.1	<6.1	<6.1	<6.1
Mercury	2 S	<0.20	<0.20	0.53	<0.20	0.24
Nickel	NS	<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS	3,450 J	4,040 J	3,610 J	3,630 J	3,220 J
Selenium	10 S	<1.2	<1.2	<1.2	1.7 J	<1.2
Silver	50 S	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	NS	16,800 D	15,900 D	15,800 D	16,100 D	15,500 D
Thallium	4 G	<1.8	<1.8	<1.8	<1.8	<1.8
Vanadium	NS	<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S	<5.0	<5.0	<5.0	<5.0	10.9 J
Cyanide	100 S	<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

Table 3-11. Concentrations of Metals and Cyanide Detected in Water Samples Collected from the Old Recharge Basin in October 1988, Fairchild Republic Company, East Farmingdale, New York.

Sample Station:		T		U	V	
Sample Designation:		SS-6 (S)	SS-7 (I)	SS-10 (S)	SS-11 (S)	SS-12 (I)
Sample Date:		10/3	10/3	10/3	10/3	10/3
Parameter (ug/L)	TOG* Class GA (DWS) ug/L					
Aluminum	NS	141 J	118 J	103 J	130 J	119 J
Antimony	3 G	<25.0	<25.0	<25.0	<25.0	<25.0
Arsenic	25 S	<5.1	<5.1	<5.1	<5.1	<5.1
Barium	1,000 S	52.9	52.0 J	50.3 J	50.3 J	49.4 J
Beryllium	3 G	<0.60	<0.60	<0.60	<0.60	<0.60
Cadmium	10 S	<2.0	<2.0	<2.0	<2.0	<2.0
Calcium	NS	24,500 D	23,200 D	23,400 D	23,600 D	22,600 D
Chromium	NS	<13.0	<13.0	<13.0	<13.0	<13.0
Cobalt	NS	<5.0	<5.0	<5.0	<5.0	<5.0
Copper	200 S	<13.0	13 J	<13.0	<13.0	<13.0
Iron	300 S	<84.0	<84.0	<84.0	<84.0	<84.0
Lead	25 S	<0.70	<0.70	<0.70	<0.70	<0.70
Magnesium	35,000 G	4,680 J	4,450 J	4,490 J	4,510 J	4,350 J
Manganese	300 S	<6.1	<6.1	<6.1	<6.1	<6.1
Mercury	2 S	<0.20	<0.20	0.53	<0.20	0.24
Nickel	NS	<11.0	<11.0	<11.0	<11.0	<11.0
Potassium	NS	3,450 J	4,040 J	3,610 J	3,630 J	3,220 J
Selenium	10 S	<1.2	<1.2	<1.2	1.7 J	<1.2
Silver	50 S	<2.0	<2.0	<2.0	<2.0	<2.0
Sodium	NS	16,800 D	15,900 D	15,800 D	16,100 D	15,500 D
Thallium	4 G	<1.8	<1.8	<1.8	<1.8	<1.8
Vanadium	NS	<4.0	<4.0	<4.0	<4.0	<4.0
Zinc	300 S	<5.0	<5.0	<5.0	<5.0	10.9 J
Cyanide	100 S	<10.0	<10.0	<10.0	<10.0	<10.0

ug/L Micrograms per liter.
J Estimated value.
Q Spiked sample recovery not within control limits.
W Post-digestion spike recovery not within control limits.
D Duplicate analysis not within control limits.
S TOG standard.
G TOG guidance value.
* NYSDEC's Division of Water Technical and Operational Guidance Series - Ambient Water Quality Standards and Guidance Values (July 1985).
NS Not specified.
(S) Denotes shallow surface-water sample.
(I) Denotes intermediate surface-water sample.

APPENDIX K

SEDIMENT INVESTIGATIONS AT THE ORB IN 1988, GERAGHTY AND MILLER

HYDROGEOLOGIC INVESTIGATION OF THE OLD RECHARGE BASIN, FAIRCHILD REPUBLIC COMPANY, EAST FARMINGDALE, NEW YORK

Prepared for:

Fairchild Republic Company
548 Broadhollow Road
Melville, New York 11749

December 1989

Geraghty & Miller, Inc.
Environmental Services
125 East Bethpage Road
Plainview, New York 11803

Soil Quality

The analytical results for the sediment samples collected from the bottom of the North and South Ponds and for native soil samples collected from below the sediment layer of the old recharge basin will be discussed in detail in this section, as will baseline soil quality conditions determined from the two nearby recharge basins. The laboratory data were validated by Geraghty & Miller according to the NYSDEC Contract Laboratory Protocol and recorded on the USEPA Region II Data Validation Standard Operating Procedure (SOP) forms; the results of the data validation are incorporated into the summary chemical data tables. Due to the high detection limits resulting from matrix interferences, many of the compounds could not be precisely quantified and, therefore, the concentrations of the compounds were estimated. These estimated values, which are indicated by the letter "J" in all chemical data summary tables,

were, however, used in the calculation of the total analyte concentration for each sample. It should be noted that when compounds were detected in the method blanks (indicated by the letter "B" in the tables), these values were not included in the calculated total.

Volatile Organic Compounds

A summary of the volatile organic compounds (VOCs) detected in sediment and native soils in the old recharge basin is presented in Table 5. Only those compounds detected in one or more borings are indicated in Table 5; compounds analyzed for but not detected have been omitted from the table. (This convention will be followed for all organic data tables.) Appendix C contains a listing of all compounds analyzed for. Due to matrix effects, likely to be attributable to the sediments, detection limits varied widely from boring to boring and from constituent to constituent. As observed in Table 5, the detection limits ranged from 6 micrograms per kilogram (ug/kg) to 7,600 ug/kg. Samples were analyzed according to USEPA CLP procedures which contain very strict quality assurance/quality control (QA/QC) requirements. As mentioned previously, NYSDEC CLP requirements were also met.

The analytical results presented in Table 5 show that relatively low concentrations of VOCs were detected in Borings B-1 through B-8, all of which are located in the South Pond. Total VOC concentrations ranged from 6 ug/kg in the 4 to 7 ft sample from Boring B-1, to 87 ug/kg of in the 2 to 4 ft sample from Boring B-8. With the exception of Boring B-1 (0 to 4 ft) in which three compounds were found, no more than two VOCs were detected in any of the samples analyzed from the South Pond. VOCs were not detected in any of the samples collected from Borings B-4 and B-5. The compounds detected in the South Pond are as follows:

methylene chloride	xylene (total)
acetone	1,2-dichloroethene (total)
2-butanone	tetrachloroethene

In the North Pond, (Borings B-9 to B-16), higher concentrations of VOCs were detected than in the South Pond with total concentrations ranging from 5 ug/kg total VOCs in the 13 to 19 ft sample from B-14 to 6,800 ug/kg total VOCs in the 5 to 7 ft sample from B-12. The compounds detected in the North Pond are as follows:

xylene (total)	2-butanone
tetrachloroethene	toluene
1,1,1-trichloroethane	ethylbenzene
1,2-dichloroethene (total)	vinyl chloride
trichloroethene	acetone
methylene chloride	chlorobenzene

Methylene chloride and acetone are compounds commonly used in the laboratory and often show up in sample results as laboratory contaminants. Quality control review of the analytical data did not invalidate all methylene chloride and acetone results reported in Table 5; however, Geraghty & Miller believes that these compounds are laboratory artifacts and are not actually present in the soil. This belief is supported by the pattern in which these compounds were detected. Of the 24 samples analyzed, 15 contained at least two of the compounds. More importantly, acetone, a compound with a short environmental half-life, was detected in almost all of the samples. Since Fairchild's discharges to the basin ended in 1983, it is unlikely that this compound would be observed in so many samples. Finally, acetone was detected in the majority of the South Pond samples while the more persistent chlorinated hydrocarbons were only detected in two samples. A contaminant distribution such as this is highly unlikely. The

following discussion therefore assumes that these two compounds are laboratory contaminants despite their inclusion in the totals values presented in Table 4.

In North Pond Borings B-9, B-10, B-12, B-14, and B-16, higher VOC concentrations were detected in the sediment samples as compared to the native soil samples. In Borings B-11, B-13, and B-15 there was essentially no difference in VOC concentrations between the sediment and native soil samples. The borings containing the highest concentrations of VOCs (B-12, B-14, and B-15) are located in the deepest part of the eastern lobe of the North Pond or adjacent to the outflow pipe.

In the South Pond, only Boring B-1 had VOCs other than acetone or methylene chloride detected. These compounds were 1,2-dichloroethene (20 ug/L) and tetrachloroethene detected in samples from 0 to 4 ft and 4 to 7 ft, respectively.

Semivolatile Organic Compounds

A summary of the analytical results for semivolatile compounds detected in soil samples collected from the North and South Ponds of the old recharge basin is presented in Table 6. The distribution of semivolatile contaminants in the old recharge basin is similar to that of the VOCs. Specifically, higher concentrations of semivolatile compounds were detected in the North Pond, especially in or near the deepest part of the eastern lobe (in the vicinity of the outflow pipe), and the concentration of semivolatiles in the sediment samples was generally an order of magnitude higher than concentrations in native soil samples collected from the same boring.

A maximum of 19 semivolatile compounds was detected in any given sample. In the South Pond, samples of the sediment contained total semivolatile concentrations of greater than

8,000 ug/kg in Boring B-8 (0 to 2 ft), while total concentrations in native soil samples ranged from non-detected in Boring B-1, to 613 ug/kg in Boring B-8. In the North Pond, the highest total concentrations were detected in the sediment sample from Boring B-15 (0 to 7 ft) at greater than 60,000 ug/kg. Total concentrations in native soil samples from North Pond borings ranged from less than 100 ug/kg in Boring B-16 (7 to 11 ft), to more than 10,000 ug/kg in Boring B-15 (10 to 17 ft).

Pesticides/Polychlorinated Biphenyls

A summary of the analytical results for pesticides and polychlorinated biphenyls (PCBs) for soil samples collected from the North and South Ponds is presented in Table 7. The pesticides, alpha and gamma chlordane were detected in sediment samples from Borings B-6 (0.72 parts per million [alpha chlordane], 0.75 parts per million [gamma chlordane]), and B-8 (4.3 parts per million [alpha chlordane], 5.4 parts per million [gamma chlordane]). The only native soil sample containing pesticides was Boring B-8 (0.92 parts per million [alpha chlordane], 0.11 parts per million [gamma chlordane]), concentrations which are significantly attenuated from the corresponding (overlying) sediment sample.

PCBs (Aroclor 1248 and Aroclor 1254) were found to be distributed in a manner similar to the VOCs and semivolatiles, with higher PCB concentrations observed in the North Pond, in or near the deepest part of the eastern lobe in the vicinity of the discharge pipes (Fairchild and NYSDOT). The PCB concentrations in the sediment samples were generally an order of magnitude higher than native soil samples from the same boring.

Total concentrations of PCBs in sediment samples from the South Pond ranged from nondetected in Boring B-8 (0 to 2 ft) to 65 parts per million (ppm) in Boring B-4 (2 to 6 ft).

Native soils from South Pond borings contained no more than 0.37 ppm total PCBs (Boring B-1).

In the North Pond, the total concentration of PCBs in sediment samples ranged from non-detected in Boring B-11 (0 to 4 ft) to 139 ppm in Boring B-16 (5 to 7 ft). Native soils from North Pond borings contained total PCB concentrations ranging from 0.086 ppm in Boring B-16 (7 to 11 ft) to 64 ppm in Boring B-10 (4 to 6 ft). Like semivolatile compounds, pesticides and PCBs are relatively immobile compounds with low solubilities and are attenuated by the organic matter also found in the bottom sediments (Freeze & Cherry, 1979; Verschueren, 1983; Lyman, Reehl, and Rosenblatt, 1982).

Metals/Cyanide

A summary of the analytical results for total metals and cyanide for soil samples collected from the North and South Ponds is provided in Table 8. Because these analyses were performed on acid-digested samples of the soil, the acid also dissolves the soil matrix, which itself may contain native metallic elements. Despite the relatively high total metal concentrations in the acid-digested sediment samples, the results of the EP Toxicity testing presented in Table 9 reveal that none of the samples analyzed using this procedure had metal concentrations above statutory limits. Therefore, it appears that metals in the sediment are in a stable configuration confirming the results of a previous investigation (Geraghty & Miller, 1985).

Cyanide ion was detected in 23 of the 36 of the sediment/soil samples collected from the North and South Ponds. Concentrations ranged from nondetected to a high of 116 mg/kg in sediments in Boring B-10 (North Pond, western lake).

The concentration of metals in samples collected from borings in the North and South Pond is similar; however, metal concentrations are generally higher in the North Pond with the highest concentrations of metals observed in borings in or near the deepest part of the eastern lobe of the North Pond. As is the case with the VOCs and semivolatiles, the metal concentrations are at least an order of magnitude higher in the sediment samples than in the native soil samples collected from the same boring. The highest concentrations of metals detected were for aluminum (up to 44,700 milligrams per kilogram [mg/kg] in a sediment sample from Boring B-9), calcium (up to 103,000 mg/kg in sediment sample from B-12), iron (49,700 mg/kg in a sediment sample from B-12), magnesium (9,940 mg/kg in a sediment sample from B-12), manganese (1,730 mg/kg in a sediment sample from B-10), chromium (11,400 mg/kg in a sediment sample from B-10), potassium (1,430 mg/kg in a sediment sample from B-6), and zinc (7,470 mg/kg in a sediment sample from B-9).

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*
Sample Depth:	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
Parameter (ug/kg)					
Methylene chloride	12	<6	<7	<6	<19
Acetone	53 J	<12	49 J	32 J	<300
1,2-Dichloroethene (total)	20	<6	<7	<6	<19
Chloroform	<6	<6	<7	<6	<19
Toluene	<6	<6	<7	<6	<19
Chlorobenzene	<6	<6	<7	<6	<19
Ethylbenzene	<6	<6	<7	<6	<19
Styrene	<6	<6	<7	<6	<19
Xylene (total)	<6	<6	<7	<6	<19
2-Butanone	<13	<13	5 J	<12	<90
Vinyl chloride	<13	<13	<14	<12	<38
Tetrachloroethene	<6	6	<7	<6	<19
Trichloroethene	<6	<6	<7	<6	<19
1,1,1-Trichloroethane	<6	<6	<7	<6	<19
Total VOCs	85	6	54	32	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5	B-6
Sample Type:	N	S	S	S	S
Sample Depth:	2-4	0-2	2-6	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88
Parameter (ug/kg)					
Methylene chloride	<6	<7	<9	<9	<12
Acetone	47 J	<190	<360	<210	<85
1,2-Dichloroethene (total)	<6	<7	<9	<9	<12
Chloroform	<6	<7	<9	<9	<12
Toluene	<6	<7	<9	<9	<12
Chlorobenzene	<6	<7	<9	<9	<12
Ethylbenzene	<6	<7	<9	<9	<12
Styrene	<6	<7	<9	<9	<12
Xylene (total)	<6	<7	<9	<9	<12
2-Butanone	<12	<41	<110	<63	<23
Vinyl chloride	<12	<13	<19	<18	<23
Tetrachloroethene	<6	<7	<9	<9	<12
Trichloroethene	<6	<7	<9	<9	<12
1,1,1-Trichloroethane	<6	<7	<9	<9	<12
Total VOCs	47	--	--	--	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-7	B-8	B-8	B-9	B-9
Sample Type:	N	S/N*	S	N	S	N
Sample Depth:	2-4	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88	10/4/88	10/4/88
Parameter (ug/kg)						
Methylene chloride	<6	<6	<25	<6	<3800 J	<6
Acetone	30 J	42 J	<270	76 J	<7600 J	<61
1,2-Dichloroethene (total)	<6	<6	<25	<6	<3800 J	<6
Chloroform	<6	<6	<25	<6	<3800 J	<6
Toluene	<6	<6	<25	<6	500 J	<6
Chlorobenzene	<6	<6	<25	<6	<3800 J	<6
Ethylbenzene	<6	<6	<25	<6	<3800 J	<6
Styrene	<6	<6	<25	<6	<3800 J	<6
Xylene (total)	<6	<6	<25	<6	<3800 J	2 J
2-Butanone	2 J	<12	<49	11 J	R	R
Vinyl chloride	<12	<12	<49	<12	<7600 J	<12
Tetrachloroethene	<6	<6	<25	<6	<3800 J	2 J
Trichloroethene	<6	<6	<25	<6	<3800 J	<6
1,1,1-Trichloroethane	<6	<6	<25	<6	<3800 J	<6
Total VOCs	32	42	--	87	500	4

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12	B-12
Sample Type:	S	N	S	N	S	S
Sample Depth:	0-4	4-6	0-4	4-6	0-5	5-7
Sample Date:	10/5/88	10/5/88	10/5/88	10/5/88	10/6/88	10/6/88
Parameter (ug/kg)						
Methylene chloride	<3600 J	<6	<13	<6	<12000 J	<2700 J
Acetone	<7400 J	<120	<160	<110	<67,000 B	<5400 J
1,2-Dichloroethene (total)	<3600 J	<6	<11	<6	<12000 J	5000 J
Chloroform	<3600 J	<6	<11	<6	<12000 J	<2700 J
Toluene	860 J	<6	<11	<6	<12000 J	<2700 J
Chlorobenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Ethylbenzene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Styrene	<3600 J	<6	<11	<6	<12000 J	<2700 J
Xylene (total)	<3600 J	1 J	<11	1 J	<12000 J	<2700 J
2-Butanone	R	R	R	R	R	R
Vinyl chloride	<7400 J	<12	<22	<12	<27000 J	<5400 J
Tetrachloroethene	<3600 J	<6	<11	2 J	<12000 J	<2700 J
Trichloroethene	<3600 J	<6	<11	<6	<12000 J	1800 J
1,1,1-Trichloroethane	<3600 J	11	<11	13	<12000 J	<2700 J
Total VOCs	860	12	--	16	--	6,800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-12	B-13	B-13	B-13	B-14	B-14
Sample Type:	N	S	S	N	S	S
Sample Depth:	7-9	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
Parameter (ug/kg)						
Methylene chloride	<32	<84 J	<760 J	43	<250 J	<58
Acetone	<410	<600 J	<1500 J	430 J	<770 J	<610
1,2-Dichloroethene (total)	24 J	<84 J	<760 J	<29	<250 J	330
Chloroform	<30	<84 J	<760 J	<29	<250 J	<58
Toluene	<30	<84 J	<760 J	<29	<250 J	44
Chlorobenzene	<30	<84 J	<760 J	<29	<250 J	<58
Ethylbenzene	<30	<84 J	<760 J	<29	<250 J	12
Styrene	<30	<84 J	<760 J	<29	<250 J	<58
Xylene (total)	<30	<84 J	<760 J	<29	400 J	<120
2-Butanone	R	<170 J	R	49 J	<500 J	R
Vinyl chloride	<60	<170 J	<1500 J	<58	<500 J	210
Tetrachloroethene	<30	<84 J	<760 J	<29	<250 J	<58
Trichloroethene	22 J	<84 J	<760 J	<29	<250 J	940
1,1,1-Trichloroethane	<30	<84 J	<760 J	<29	<250 J	<58
Total VOCs	46	--	--	522	400	1,536

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16	B-16
Sample Type:	S	S	S	N	S	S
Sample Depth:	13-19	0-7	7-10	10-17	0-5	5-7
Sample Date:	10/7/88	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88
Parameter (ug/kg)						
Methylene chloride	<6	<92	<96	<50	<110	<64 J
Acetone	<74	<1200	3,500 B	<1,300	4,600 B	<2,000 J
1,2-Dichloroethene (total)	<6	1000	<96	<50	<110	<64 J
Chloroform	<6	<92	<96	<50	<110	<64 J
Toluene	1 J	310	<96	<50	<110	<64 J
Chlorobenzene	<6	<92	180	<50	160	<64 J
Ethylbenzene	<6	<92	<96	<50	<110	<64 J
Styrene	<6	<92	<96	<50	<110	<64 J
Xylene (total)	<6	380	400	<50	430	180 J
2-Butanone	R	R	1,000 J	370 J	1,100 J	620 J
Vinyl chloride	<12	<180	<190	1,100	<220	<130 J
Tetrachloroethene	3 J	<92	<96	<50	<110	<64 J
Trichloroethene	<6	<92	<96	<50	<110	<64 J
1,1,1-Trichloroethane	1 J	<92	<96	<50	<110	<64 J
Total VOCs	5	1,690	1,580	1,470	1,690	800

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.
R Unuseable data.

Table 5. Concentrations of Volatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988, for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16
Sample Type:	N
Sample Depth:	7-11
Sample Date:	10/10/88

Parameter (ug/kg)	
Methylene chloride	<6
Acetone	<28
1,2-Dichloroethene (total)	<6
Chloroform	<6
Toluene	<6
Chlorobenzene	<6
Ethylbenzene	<6
Styrene	<6
Xylene (total)	<6
2-Butanone	R
Vinyl chloride	<12
Tetrachloroethene	<6
Trichloroethene	<6
1,1,1-Trichloroethane	<6
Total VOCs	--

All results reported in micrograms per kilogram (ug/kg).

-- Not detected.
J Estimated Value.
B Detected in the Reagent blank.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.
R Unuseable data.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88
	S/N*	N	S	S/N*	S/N*
Parameter (ug/kg)					
N-Nitrosodiphenylamine	86 J	<380	<1300	<410	<440
1,2-Dichlorobenzene	58 J	<380	110 J	<410	55 J
Diethylphthalate	<570	<380	<1300	<410	<440
Di-n-butylphalate	<570	<380	<1300	50 J	<440
Phenol	<570	<380	<1300	<410	<440
Hexachlorobenzene	<570	<380	<1300	<410	<440
bis(2-Chloroethyl)ether	<570	<380	<1300	<410	<440
2-Chlorophenol	<570	<380	<1300	<410	<440
2,4-Dinitrotoluene	<570	<380	<1300	<410	<440
1,4-Dichlorobenzene	<570	<380	<1300	<410	<440
Benzo(g,h,i)perylene	<570 J	<380	<1300	<410	<440 J
Benzo(a)pyrene	300 J	<380	340 J	<410	<440 J
Indeno(1,2,3-cd)pyrene	<570 J	<380	<1300	<410	<440 J
4-Methylphenol	<570	<380	<1300	<410	<440
N-nitroso-di-n-propylamine	<570	<380	<1300	<410	<440
Acenaphthene	<570	<380	<1300	<410	<440
bis(2-Ethylhexyl)phthalate	<860	<380	<1300	<470	<1,900 J
4-Nitrophenol	<2800	<1900	<6400	<2000	<2200
Isophorone	<570	<380	<1300	<410	<440
Dibenzofuran	<570	<380	23 J	<410	36 J
2,4-Dimethylphenol	<570	<380	<1300	<410	<440
Benzoic acid	<2800	<1900	250 J	<2000	110 J
Benzo(b)fluoranthene	<570 J	6 J	480 J	43 J	<440 J
Benzo(k)fluoranthene	440 J	<380	<1300	<410	320 J
1,2,4-Trichlorobenzene	<570	<380	<1300	<410	<440
Naphthalene	<570	<380	<1300	<410	<440
Benzo(a)anthracene	<570 J	<380	<1300	<410	<440
Chrysene	320 J	<380	430 J	47 J	230 J
4-Chloro-3-methylphenol	<570	<380	44 J	<410	<440
2-Methylnaphthalene	<570	<380	45 J	<410	<440
Pentachlorophenol	<2800	<1900	<6400	<2000	<2200
Phenanthrene	<570	<380	250 JB	<410	<440
Anthracene	<570	<380	87 JB	<410	<440
Di-n-octyl phthalate	<570 J	<380	<1300	<410	<440 J
Fluoranthene	400 J	<380	510 J	79 J	270 J
Pyrene	660	<380	720 J	69 J	610 J
Dimethyl phthalate	<570	<380	<1300	<410	37 J
Acenaphthylene	49 J	<380	<1300	<410	38 J
Fluorene	<570	<380	<1300	<410	<440
Butylbenzylphthalate	<570	<380	<1300	<410	<440 J
Total Semivolatile Organic Compounds	2,313	6	2,952	288	1,706

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-3	B-4	B-4	B-5
Sample Depth (ft):	2-4	0-2	2-6	2-4
Sample Date:	9/28/88	9/28/88	9/28/88	9/28/88
	N	S	S	S*/N
Parameter (ug/kg)				
N-Nitrosodiphonylamine	<380	<470	<590	<490
1,2-Dichlorobenzene	<380	<470	<590	70 J
Diethyiphthalate	<380	<470	<590	<490
Di-n-butylphalate	<380	<470	<590	51 J
Phenol	<380	<470	<590	<490
Hexachlorobenzene	<380	<470	<590	<490
bis(2-Chloroethyl)ether	<380	<470	<590	<490
2-Chlorophenol	<380	<470	<590	<490
2,4-Dinitrotoluene	<380	<470	<590	<490
1,4-Dichlorobenzene	<380	<470	<590	<490
Benzo(g,h,i)perylene	<380	<470 J	<590 J	<490 J
Benzo(a)pyrene	<380	2,000 J	940 J	220 J
Indeno(1,2,3-cd)pyrene	<380	<470 J	<590 J	<490 J
4-Methylphenol	<380	<470	<590	<490
N-nitroso-di-n-propylamine	<380	<470	<590	<490
Acenaphthene	<380	350 J	150 J	<490
bis(2-Ethylhexyl)phthalate	<380	<1,400 J	<6,300 J	<1,700 J
4-Nitrophenol	<1900	<2300	<2900	<2400
Isophorone	<380	<470	<590	<490
Dibenzofuran	<380	250 J	95 J	<490
2,4-Dimethylphenol	<380	<470	<590	<490
Benzoic acid	<1900	<2300	<2900	<2400
Benzo(b)fluoranthene	<380	5,300 J	1,300 J	180 J
Benzo(k)fluoranthene	<380	430 J	<590 J	<490 J
1,2,4-Trichlorobenzene	<380	<470	<590	<490
Naphthalene	<380	170 J	190 J	<490
Benzo(a)anthracene	8 J	1,700 J	<590 J	<490 J
Chrysene	<380	1,900 J	<590 J	230 J
4-Chloro-3-methylphenol	<380	<470	<590	<490
2-Methylnaphthalene	<380	330 J	250 J	28 J
Pentachlorophenol	<1900	<2300	<2900	<2400
Phenanthrene	<380	1,800 B	<590	<490
Anthracene	<380	580 B	<590	<490
Di-n-octyl phthalate	<380	<470 J	<590 J	<490 J
Fluoranthene	<380	2,400	750	250 J
Pyrene	<380	5,300 J	3,300 J	520 J
Dimethyl phthalate	<380	<470	<590	<490
Acenaphthylene	<380	560	130 J	43 J
Fluorene	<380	510	<590	<490
Butylbenzylphthalate	<380	<470 J	<590 J	<490 J
Total Semivolatile Organic Compounds	8	21,200	7,105	1,592

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-6	B-6	B-7	B-8
Sample Depth (ft):	0-2	2-4	0-2	0-2
Sample Date:	9/29/88	9/29/88	9/29/88	9/29/88
	S	N	S/N*	S
Parameter (ug/kg)				
N-Nitrosodiphonylamine	<570	<400	<390	<530
1,2-Dichlorobenzene	74 J	<400	<390	130 J
Diethyiphthalate	<570	<400	<390	<530
Di-n-butyiphalate	<570	<400	34 J	<530
Phenol	<570	<400	<390	<530
Hexachlorobenzene	<570	<400	<390	43 J
bis(2-Chloroethyl)ether	<570	<400	<390	<530
2-Chlorophenol	<570	<400	<390	<530
2,4-Dinitrotoluene	<570	<400	<390	<530
1,4-Dichlorobenzene	<570	<400	<390	<530
Benzo(g,h,i)perylene	<570 J	<400	210 J	<530 J
Benzo(a)pyrene	320 J	5 J	2,200 J	830 J
Indeno(1,2,3-cd)pyrene	<570 J	<400	330 J	<530 J
4-Methyiphenol	<570	<400	<390	43 J
N-nitroso-di-n-propylamine	<570	<400	<390	<530
Acenaphthene	<570	<400	300 J	250 J
bis(2-Ethylhexyl)phthalate	<2,300 J	<810	<730	<1,800 J
4-Nitrophenol	<2800	<2000	<1900	<2600
Isophorone	<570	<400	<390	<530
Dibenzofuran	<570	<400	230 J	150 J
2,4-Dimethylphenol	<570	<400	<390	<530
Benzoic acid	73 J	<2000	<1900	130 J
Benzo(b)fluoranthene	300 J	4 J	3,100 J	1,900 J
Benzo(k)fluoranthene	<570	<400	610 J	190 J
1,2,4-Trichlorobenzene	<570	<400	<390	<530
Naphthalene	31 J	<400	140 J	110 J
Benzo(a)anthracene	<570 J	<400	2,300	<530 J
Chrysene	310 J	<400	2,300	<530 J
4-Chloro-3-methylphenol	<570	<400	<390	<530
2-Methylnaphthalene	35 J	<400	93 J	410 J
Pentachlorophenol	<2800	<2000	<1900	<2600
Phenanthrene	<570	<400	3,300 B	1,300 B
Anthracene	<570	8 J	980 B	330 JB
Di-n-octyl phthalate	<570 J	<400	<390 J	<530 J
Fluoranthene	370 J	15 J	4,200	1,100
Pyrene	820 J	14 J	5,400	2,400 J
Dimethyl phthalate	<570	<400	<390	<530
Acenaphthylene	53 J	<400	290 J	210 J
Fluorene	<570	<400	<390	390 J
Butylbenzylphthalate	<570 J	<400	<390	<530 J
Total Semivolatile Organic Compounds	2,386	46	21,737	8,286

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-9	B-9	B-10	B-10
Sample Depth (ft):	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
	N	S	N	S	N
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<390	<1300	<390	<100,000 J	<390
1,2-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Diethylphthalate	<390	<1300	<390	<100,000 J	<390
Di-n-butylphalate	26 J	<1300	21 J	<100,000 J	<390
Phenol	<390	<1300	<390	<100,000 J	<390
Hexachlorobenzene	<390	<1300	<390	<100,000 J	<390
bis(2-Chloroethyl)ether	<390	<1300	<390	<100,000 J	<390
2-Chlorophenol	<390	<1300	<390	<100,000 J	<390
2,4-Dinitrotoluene	<390	<1300	<390	<100,000 J	<390
1,4-Dichlorobenzene	<390	<1300	<390	<100,000 J	<390
Benzo(g,h,i)perylene	<390	<1300 J	<390	<100,000 J	<390 J
Benzo(a)pyrene	34 J	370 J	29 J	<100,000 J	150 J
Indeno(1,2,3-cd)pyrene	<390	<1300 J	<390	<100,000 J	<390 J
4-Methylphenol	<390	<1300	<390	<100,000 J	<390
N-nitroso-di-n-propylamine	<390	<1300	<390	<100,000 J	<390
Acenaphthene	28 J	<1300	<390	<100,000 J	<390
bis(2-Ethylhexyl)phthalate	<390	<3,100	<910	<100,000 J	<1300
4-Nitrophenol	<1900	<6600	<1900	<480,000 J	<1900
Isophorone	<390	<1300	<390	<100,000 J	<390
Dibenzofuran	<390	<1300	<390	<100,000 J	<390
2,4-Dimethylphenol	<390	<1300	<390	<100,000 J	97 J
Benzoic acid	<1900	<6600	<1900	<480,000 J	<1900
Benzo(b)fluoranthene	<390	500 J	<390	<100,000 J	260 J
Benzo(k)fluoranthene	31 J	<1300 J	<390	<100,000 J	<390 J
1,2,4-Trichlorobenzene	<390	<1300	<390	<100,000 J	<390
Naphthalene	<390	<1300	<390	<100,000 J	<390
Benzo(a)anthracene	<390	<1300	<390	<100,000 J	<390
Chrysene	<390	460 J	47 J	<100,000 J	220 J
4-Chloro-3-methylphenol	<390	<1300	<390	<100,000 J	<390
2-Methylnaphthalene	<390	<1300	<390	<100,000 J	<390
Pentachlorophenol	<1900	<6600	<1900	<480,000 J	<1900
Phenanthrene	140 JB	530 J	29 J	<100,000 J	160 J
Anthracene	32 JB	<1300	<390	<100,000 J	<390
Di-n-octyl phthalate	280 J	<1300 J	25 J	<100,000 J	<390 J
Fluoranthene	93 J	860 J	71 J	2,900 J	350 J
Pyrene	95 J	920 J	70 J	<100,000 J	430
Dimethyl phthalate	<390	<1300	<390	<100,000 J	<390
Acenaphthylene	<390	<1300	<390	<100,000 J	<390
Fluorene	26 J	<1300	<390	<100,000 J	<390
Butylbenzylphthalate	<390	<1300	12 J	<100,000 J	<390
Total Semivolatile Organic Compounds	613	3,640	304	2,900	1,667

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12
Sample Depth (ft):	0-4	4-6	0-5	5-7	7-9
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88
	S	N	S		N
Parameter (ug/kg)					
N-Nitrosodiphenylamine	<1600	<400	<33000 J	<95000 J	<450
1,2-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Diethylphthalate	<1600	<400	<33000 J	<95000 J	<450
Di-n-butylphalate	100 J	<400	<33000 J	<95000 J	<450
Phenol	<1600	<400	<33000 J	<95000 J	<450
Hexachlorobenzene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Chloroethyl)ether	<1600	<400	<33000 J	<95000 J	<450
2-Chlorophenol	<1600	<400	<33000 J	<95000 J	<450
2,4-Dinitrotoluene	<1600	<400	<33000 J	<95000 J	<450
1,4-Dichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Benzo(g,h,i)perylene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Benzo(a)pyrene	<1600 J	160 J	<33000 J	<95000 J	270 J
Indeno(1,2,3-cd)pyrene	<1600 J	<400 J	<33000 J	<95000 J	<450 J
4-Methylphenol	<1600	<400	<33000 J	<95000 J	<450
N-nitroso-di-n-propylamine	<1600	<400	<33000 J	<95000 J	<450
Acenaphthene	<1600	<400	<33000 J	<95000 J	<450
bis(2-Ethylhexyl)phthalate	<3,300	<1,500	<33000 J	<95000 J	<1,600
4-Nitrophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Isophorone	<1600	<400	<33000 J	<95000 J	<450
Dibenzofuran	<1600	<400	<33000 J	<95000 J	<450
2,4-Dimethylphenol	<1600	<400	<33000 J	<95000 J	<450
Benzoic acid	<7800	<2000	<160,000 J	<450,000 J	<2200
Benzo(b)fluoranthene	<1600 J	220 J	3,200 J	12,000 J	410 J
Benzo(k)fluoranthene	<1600 J	250 J	1,700 J	<95000 J	380 J
1,2,4-Trichlorobenzene	<1600	<400	<33000 J	<95000 J	<450
Naphthalene	<1600	<400	<33000 J	<95000 J	110 J
Benzo(a)anthracene	<1600	<400	<33000 J	<95000 J	<450
Chrysene	<1600	230	2,400 J	<95000 J	370 J
4-Chloro-3-methylphanol	<1600	<400	<33000 J	<95000 J	<450
2-Methylnaphthalene	<1600	<400	<33000 J	<95000 J	1,600
Pentachlorophenol	<7800	<2000	<160,000 J	<450,000 J	<2200
Phenanthrene	71 J	<400	1,600 J	10,000 J	660
Anthracene	<1600	<400	<33000 J	<95000 J	170 J
Di-n-octyl phthalate	<1600 J	<400 J	<33000 J	<95000 J	<450 J
Fluoranthene	110 J	340 J	3,900 J	13,000 J	840
Pyrene	98 J	440	3,100 J	11,000 J	1,000
Dimethyl phthalate	<1600	<400	<33000 J	<95000 J	56 J
Acenaphthylene	<1600	<400	<33000 J	<95000 J	<450
Fluorene	<1600	<400	<33000 J	<95000 J	<450
Butylbenzylphthalate	<1600	<400	<33000 J	<95000 J	<450
Total Semivolatile Organic Compounds	379	1,640	15,900	46,000	5,866

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-13	B-14	B-14
Sample Depth (ft):	0-5	5-9	9-11	0-8	8-13
Sample Date:	10/6/88	10/6/88	10/6/88	10/7/88	10/7/88
	S	S	N	S	S
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<45000 J	<2500	<370	<54000 J	<430
1,2-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Diethylphthalate	<45000 J	<2500	<370	<54000 J	<430
Di-n-butylphalate	<45000 J	280 J	<370	<54000 J	<430
Phenol	<45000 J	<2500	<370	<54000 J	<430
Hexachlorobenzene	<45000 J	<2500	<370	<54000 J	<430
bis(2-Chloroethyl)ether	<45000 J	<2500	<370	<54000 J	<430
2-Chlorophenol	<45000 J	<2500	<370	<54000 J	<430
2,4-Dinitrotoluene	<45000 J	<2500	<370	<54000 J	<430
1,4-Dichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Benzo(g,h,i)perylene	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Benzo(a)pyrene	4,600 J	3,100 J	710 J	4,500 J	1,300 J
Indeno(1,2,3-cd)pyrene	<45000 J	<2500 J	<370 J	<54000 J	260 J
4-Methylphenol	<45000 J	<2500	<370	<54000 J	<430
N-nitroso-di-n-propylamine	<45000 J	<2500	<370	<54000 J	<430
Acenaphthene	<45000 J	750 J	240 J	<54000 J	<430
bis(2-Ethylhexyl)phthalate	<45000 J	<8,400	<1,900	<54000 J	<2,700 J
4-Nitrophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Isophorone	<45000 J	<2500	<370	<54000 J	<430
Dibenzofuran	<45000 J	410 J	140 J	<54000 J	200 J
2,4-Dimethylphenol	<45000 J	310 J	<370	<54000 J	1,100
Benzoic acid	<220,000 J	<13000	<1800	<260,000 J	79 J
Benzo(b)fluoranthene	12,000 J	5,100 J	960 J	3,500 J	4,000 J
Benzo(k)fluoranthene	<45000 J	<2500 J	210 J	<54000 J	<430 J
1,2,4-Trichlorobenzene	<45000 J	<2500	<370	<54000 J	<430
Naphthalene	<45000 J	390 J	49 J	<54000 J	150 J
Benzo(a)anthracene	6,200 J	3,800	840	<54000 J	1,500 J
Chrysene	7,000 J	4,100	880	<54000 J	1,500 J
4-Chloro-3-methylphenol	<45000 J	<2500	<370	<54000 J	<430
2-Methylnaphthalene	<45000 J	410 J	130 J	<54000 J	350 J
Pentachlorophenol	<220,000 J	<13000	<1800	<260,000 J	<2100
Phenanthrene	7,400 J	5,600	1,600	3,900 J	2,400
Anthracene	1,600 J	1,300 J	440	<54000 J	580
Di-n-octyl phthalate	<45000 J	<2500 J	<370 J	<54000 J	<430 J
Fluoranthene	13,000 J	7,600	1,800	11,000 J	2,900
Pyrene	11,000 J	9,500	2,400	10,000 J	4,300 J
Dimethyl phthalate	<45000 J	<2500	<370	<54000 J	<430
Acenaphthylene	<45000 J	200 J	<370	<54000 J	190 J
Fluorene	<45000 J	880 J	340 J	<54000 J	<430
Butylbenzylphthalate	<45000 J	<2500	<370	<54000 J	<430 J
Total Semivolatile Organic Compounds	62,800	43,730	10,739	32,900	20,809

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-15	B-15	B-15	B-16
Sample Depth (ft):	13-19	0-7	7-10	10-17	0-5
Sample Date:	10/7/88	10/10/88	10/10/88	10/17/88	10/10/88
	S/N*	S	S	N	S
Parameter (ug/kg)					
N-Nitrosodiphonylamine	<390	<1500	<58000 J	<53000	<58000
1,2-Dichlorobenzene	<390	590 J	<58000 J	<53000	<58000
Diethylphthalate	<390	<1500	<58000 J	<53000	<58000
Di-n-butylphalate	<390	<1500	1,800 J	<53000	<58000
Phenol	<390	<1500	<58000 J	<53000	<58000
Hexachlorobenzene	<390	<1500	<58000 J	<53000	<58000
bis(2-Chloroethyl)ether	<390	<1500	<58000 J	<53000	<58000
2-Chlorophenol	<390	<1500	<58000 J	<53000	<58000
2,4-Dinitrotoluene	<390	<1500	<58000 J	<53000	<58000
1,4-Dichlorobenzene	<390	<1500	<58000 J	<53000	<58000
Benzo(g,h,i)perylene	<390	<1500	<58000 J	<53000	<58000
Benzo(a)pyrene	<390	2,900	<58000 J	<53000	<58000
Indeno(1,2,3-cd)pyrene	<390	500 J	<58000 J	<53000	<58000
4-Methylphenol	<390	<1500	<58000 J	<53000	<58000
N-nitroso-di-n-propylamine	<390	<1500	<58000 J	<53000	<58000
Acenaphthene	<390	480 J	<58000 J	<53000	<58000
bis(2-Ethylhexyl)phthalate	<530	15,000 BJ	<58000 J	<53000	<58000
4-Nitrophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Isophorone	<390	<1500	<58000 J	<53000	<58000
Dibenzofuran	<390	280 J	<58000 J	<53000	<58000
2,4-Dimethylphenol	<390	27,000	12,000 J	<53000	<58000
Benzoic acid	<1900	<7100	<280,000 J	<260,000	<280,000
Benzo(b)fluoranthene	<390	3,300	<58000 J	1,500 J	<58000
Benzo(k)fluoranthene	<390	<1500	2,400 J	<53000	<58000
1,2,4-Trichlorobenzene	<390	170 J	<58000 J	<53000	<58000
Naphthalene	<390	510 J	<58000 J	<53000	<58000
Benzo(a)anthracene	<390	4,400 J	<58000 J	<53000	<58000
Chrysene	<390	4,700 J	<58000 J	<53000	9,000 J
4-Chloro-3-methylphenol	<390	<1500	<58000 J	<53000	<58000
2-Methylnaphthalene	<390	1,900	<58000 J	<53000	<58000
Pentachlorophenol	<1900	<7100	<280,000 J	<260,000	<280,000
Phenanthrene	<390	3,200	4,400 J	2,400 J	<58000
Anthracene	<390	600 J	<58000 J	<53000	1,700 J
Di-n-octyl phthalate	<390	<1500	<58000 J	<53000	<58000
Fluoranthene	<390	10,000	9,000 J	3,600 J	13,000 J
Pyrene	<390	4,600 J	6,500 J	3,400 J	14,000 J
Dimethyl phthalate	<390	<1500	<58000 J	<53000	<58000
Acenaphthylene	<390	160 J	<58000 J	<53000	<58000
Fluorene	<390	510 J	<58000 J	<53000	<58000
Butylbenzylphthalate	<390	<1500	<58000 J	<53000	<58000
Total Semivolatile Organic Compounds	--	65,800	36,100	10,900	37,700

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 6. Concentrations of Semivolatile Organic Compounds Detected in Soil Samples Collected from the Old Recharge Basin, Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-16	B-16
Sample Depth (ft):	5-7	7-11
Sample Date:	10/10/88	10/10/88
	S	N
Parameter (ug/kg)		
N-Nitrosodiphonylamine	<51000	<400
1,2-Dichlorobenzene	<51000	<400
Diethylphthalate	<51000	22 J
Di-n-butylphalate	<51000	48 J
Phenol	<51000	<400
Hexachlorobenzene	<51000	<400
bis(2-Chloroethyl)ether	<51000	<400
2-Chlorophenol	<51000	<400
2,4-Dinitrotoluene	<51000	<400
1,4-Dichlorobenzene	<51000	<400
Benzo(g,h,i)perylene	<51000	<400
Benzo(a)pyrene	<51000	<400
Indeno(1,2,3-cd)pyrene	<51000	<400
4-Methylphenol	<51000	<400
N-nitroso-di-n-propylamine	<51000	<400
Acenaphthene	<51000	<400
bis(2-Ethylhexyl)phthalate	<51000	<520
4-Nitrophenol	<250,000	<1900
Isophorone	<51000	<400
Dibenzofuran	<51000	<400
2,4-Dimethylphenol	<51000	<400
Benzoic acid	<250,000	<1900
Benzo(b)fluoranthene	<51000	<400
Benzo(k)fluoranthene	<51000	<400
1,2,4-Trichlorobenzene	<51000	<400
Naphthalene	<51000	<400
Benzo(a)anthracene	<51000	<400
Chrysene	<51000	<400
4-Chloro-3-methylphenol	<51000	<400
2-Methylnaphthalene	<51000	<400
Pentachlorophenol	<250,000	<1900
Phenanthrene	3,000 J	<400
Anthracene	<51000	<400
Di-n-octyl phthalate	<51000	<400
Fluoranthene	6,100 J	15 J
Pyrene	5,400 J	<400
Dimethyl phthalate	<51000	<400
Acenaphthylene	<51000	<400
Fluorene	<51000	<400
Butylbenzylphthalate	<51000	<400
Total Semivolatile Organic Compounds	14,500	85

All results in micrograms per kilogram (ug/kg).

- B Detected in Reagent blank.
- J Estimated value.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth:	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27/88	9/27/88	9/27/88	9/27/88	9/28/88	9/28/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
gamma Chlordane	<0.140	<0.09	<1	<0.099	<1.1	<0.093
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	1.9 J	0.24 J	<1	<0.099	12 J	0.120 J
Aroclor 1254	1.4 J	0.13 J	4 J	0.13 J	8 J	0.087 J
Total PCBs	3.3	0.37	4	0.13	20	0.207

All results reported in parts per million (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6	B-7
Sample Type:	S	S	S*/N	S	N	S/N*
Sample Depth:	0-2	2-6	2-4	0-2	2-4	0-2
Sample Date:	9/28/88	9/28/88	9/28/88	9/29/88	9/29/88	9/29/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.570	<2.9	<0.590	0.72 J	<0.097	<0.48
gamma Chlordane	<0.570	<2.9	<0.590	0.75 J	<0.097	<0.48
Total Pesticides	--	--	--	1.47	--	--
PCBs						
Aroclor 1248	7.0	38 J	2.3	6.5 J	<0.097	<0.48
Aroclor 1254	4.9	27 J	2.3	5.7 J	<0.19	0.73 J
Total PCBs	11.9	65	4.6	12.2	--	0.73

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-8	B-8	B-9	B-9	B-10	B-10
Sample Type:	S	N	S	N	S	N
Sample Depth:	0-2	2-4	0-4	4-6	0-4	4-6
Sample Date:	9/29/88	9/29/88	10/4/88	10/4/88	10/5/88	10/5/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	4.3 J	0.092 J	<1.6	<0.094	<6.7 J	<0.48
gamma Chlordane	5.4 J	0.11 J	<1.6	<0.094	<6.7 J	<0.48
Total Pesticides	9.7	0.202	--	--	--	--
PCBs						
Aroclor 1248	<6.5	<0.094	3.6	0.9	39 J	39
Aroclor 1254	<13	0.24 J	2.7	0.54	25 J	25
Total PCBs	--	0.24	6.3	1.44	64	64

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-11	B-11	B-12	B-12	B-12	B-13
Sample Type:	S	N	S	S	N	S
Sample Depth:	0-4	4-6	0-5	5-7	7-9	0-5
Sample Date:	10/5/88	10/5/88	10/6/88	10/6/88	10/6/88	10/6/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
gamma Chlordane	<1.9	<0.49	<2.2 J	<6.2 J	<0.54	<3 J
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	<1.9	2.5	19 J	<6.2 J	0.86	33 J
Aroclor 1254	<3.9	1.7	<4.5 J	10 J	0.63	19 J
Total PCBs	--	4.2	19	10	1.49	52

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-13	B-13	B-14	B-14	B-14	B-15
Sample Type:	S	N	S	S	S/N*	S
Sample Depth:	5-9	9-11	0-8	8-13	13-19	0-7
Sample Date:	10/6/88	10/6/88	10/7/88	10/7/99	10/7/88	10/10/88
Parameter (ppm)						
Pesticides						
alpha Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
gamma Chlordane	<0.61	<0.44	<3.6 J	<0.52	<0.094	<1.8
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	15	2.0	39 J	5.7	<0.094	40 J
Aroclor 1254	13	1.8	25 J	5.1	1.5	<3.5
Total PCBs	28	3.8	64	10.8	1.5	40

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
* Designates dominant component of composite sample.

Table 7. Concentrations of Pesticides/PCBs Detected in Soil Samples Collected from the Old Recharge Basin September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-15	B-16	B-16	B-16	
Sample Type:	S	N	S	S	N	
Sample Depth:	7-10	10-17	0-5	5-7	7-11	
Sample Date:	10/10/88	10/10/88	10/10/88	10/10/88	10/10/88	
Parameter (ppm)						
Pesticides						
alpha Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
gamma Chlordane	<3.8	<3.5	<3.8	<3.4	<0.096	
Total Pesticides	--	--	--	--	--	--
PCBs						
Aroclor 1248	21	<3.5	51	88	<0.096	
Aroclor 1254	12	9.2	22	51	0.086 J	
Total PCBs	33	9.2	73	139	0.086	--

All results reported in micrograms per kilogram (ppm).

-- Not detected.
J Estimated value.
S Sediment.
N Native soil.
• Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-1	B-1	B-2	B-2	B-3	B-3
Sample Type:	S/N*	N	S	S/N*	S/N*	N
Sample Depth (ft):	0-4	4-7	0-4	5-7	0-2	2-4
Sample Date:	9/27	9/27	9/27	9/27	9/28	9/28
Parameter (mg/kg)						
Aluminum	21570 D	536 D	7,290 D	2,830 D	5,440 D	533 D
Antimony	<19.5	<5.4	<17.4	<5.6	<6.2	<4.9
Arsenic	9.1	<0.55	2.0 J	3.0	4.3	<0.6
Barium	110	8.9 J	58.2	13.8J	39 J	<8.1
Beryllium	1.43 QJ	<0.13	0.320 J	<0.13	0.220 JD	<0.12
Cadmium	36.1 QJ	0.80 JQ	54.9 QJ	1.2 Q	15.3 QJ	<0.39
Calcium	1,560 J	51.3 J	1,010 J	222	586 J	48.2 J
Chromium	1,320	44.1	1,700	97.8	502	28.8
Cobalt	13.8 JD	<1.1	5.7 JD	108 JD	4.9 JD	<0.98
Copper	95.5	<2.4	89.3	6.0	31.3	<2.6
Iron	18,560 D	1,370 D	6,380 D	3,600 D	6,120 D	908 D
Lead	128 D	2.1 D	22.4 D	2.7 D	23.2 D	2.6 D
Magnesium	2,330	87.9	839	475 J	671 J	91.7 J
Manganese	473 QDJ	12.2 QDJ	131 QDJ	44.4 QDJ	148 QDJ	12.0 QDJ
Mercury	1.7	<0.08	<0.11	<0.10	<0.17	<0.08
Nickel	25.1 D	<2.4	15.3 D	<2.5	8.1 JD	<2.2
Potassium	1,100 J	106 J	382 J	349 J	323 J	87.4 J
Selenium	<0.35	0.32 QJ	0.43 JWQ	0.25 JWQ	<0.3 JWQ	0.323 QJ
Silver	51.1 D	0.64 JD	41.2 D	0.54 JD	20.1 D	<0.39
Sodium	<279	<186	<250	<193	215	<169
Thallium	<0.61	<0.33	<0.54	<0.41	<0.44	<0.36
Vanadium	33.2 D	<0.87	17.1 D	4.3 J	10.55 D	1.2 JD
Zinc	672 D	11.6 D	521 D	34.9 D	217 D	7.2 D
Cyanide	16.2	<0.72	<0.79	<0.69	2.3	<0.63

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-4	B-4	B-5	B-6	B-6
Sample Type:	S	S	S*/N	S	N
Sample Depth (ft):	0-2	2-6	2-4	0-2	2-4
Sample Date:	9/28	9/28	9/28	9/29	9/29
Parameter (mg/kg)					
Aluminum	12,890 D	15,400 D	5,500 D	20,700 D	420 D
Antimony	<7.4	<6.9	<5.8	<7.8	<5.8
Arsenic	7.5	8.5	4.1	10.0	<0.51
Barium	60.1	69.2	45.3 J	136	<9.5
Beryllium	0.79 JD	1.1 JD	0.14 JD	1.5 JD	<0.14
Cadmium	2.8 QJ	5.9 QJ	15.8 QJ	11.1 QJ	<0.46
Calcium	6,270	5,200	1,210	2,400	53.2 J
Chromium	125	322	377	664	124
Cobalt	7.2 JD	7.5 JD	4.6 J	17.4 D	<1.2
Copper	34.4	55.5	43.5	62.1	<3.0
Iron	15,200 D	17,200 D	7,240 D	20,400 D	661 D
Lead	135 D	145 D	96.7 D	85.9 D	0.90 JD
Magnesium	2,580	2,400	783 J	3,060	69.9 J
Manganese	290 QDJ	233 QDJ	214 QDJ	559 QDJ	9.2 QDJ
Mercury	0.26	0.36	<0.10	<0.18	<0.10
Nickel	9.2 JD	13.4 D	10.2 D	20.3 D	2.5 D
Potassium	559 J	512 J	337 J	1,430 J	80.5 J
Selenium	<0.35	<0.35	<0.28	<0.38	<0.24
Silver	2.3 J	8.6 D	43.4 D	46.2 D	<0.46
Sodium	<255	<237	201	<270	<199
Thallium	<0.53	<0.51	<0.38	<0.58	<0.30
Vanadium	25.6 D	39.3 D	14.5 D	35.2 D	1.1 JD
Zinc	144 D	260 D	288 D	461 D	3.7 JD
Cyanide	<0.78	<0.85	2.3	4.1	<0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-7	B-8	B-8	B-9	B-9
Sample Type:	S/N*	S	N	S	N
Sample Depth (ft):	0-2	0-2	2-4	0-4	4-6
Sample Date:	9/29	9/29	9/29	10/4	10/4
Parameter (mg/kg)					
Aluminum	1,310 D	16,600 D	1,030 D	44,700 D	972 D
Antimony	<5.8	<7.8	<5.3	<24.9	<5.6
Arsenic	1.0 J	13.3	<0.60	20.1 QJ	<1.1
Barium	<9.5	139	<8.6	461	13.5
Beryllium	<0.14	0.98 JD	<0.13	3.3 J	<0.14
Cadmium	2.8 QJ	55.9 QJ	1.3 JQ	180 QDJ	1.3 QDJ
Calcium	1,620	4,090	112 J	9,530 D	110 JD
Chromium	299	1,260	63.8	7,250 QDJ	65.3 QDJ
Cobalt	1.2 D	12.2 D	<1.0	29.6 J	<11
Copper	16.1	81.7	3.9 J	556 D	4.1 JD
Iron	1,420 D	17,200 D	922 D	42,900 D	1,490 D
Lead	18.1 D	208 D	9.3 D	864	4.9
Magnesium	968 J	2,390	111 J	3,460 JD	100 JD
Manganese	25.6 QDJ	324 QDJ	18.0 QDJ	1,520 QDJ	21.7 QDJ
Mercury	<0.11	0.95	0.46	6.4	<0.10
Nickel	<2.6	18.6 D	<2.3	58.6 D	<2.5
Potassium	134	822 J	127 J	1,300 J	<65.3
Selenium	<0.23	0.35 JWQ	<0.22	<1.1	<0.27
Silver	2.4 D	60.7 D	1.2 JD	357 D	0.50 JD
Sodium	<199	307 J	<182	<857	<194
Thallium	<0.36	<0.62	<0.36	<1.9	<0.55
Vanadium	4.1 JD	32.4 D	<0.84	96.5	2.0 J
Zinc	46.4 D	478 D	30.1 D	7,470 QDJ	32.8 QDJ
Cyanide	1.4	<1.0	<0.59	24.8	0.62

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

ıble 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-10	B-10	B-11	B-11	B-12
Sample Type:	S	N	S	N	S
Sample Depth (ft):	0-4	4-6	0-4	4-6	0-5
Sample Date:	10/5	10/5	10/5	10/5	10/6
Parameter (mg/kg)					
Aluminum	34,700 D	1,080 D	35,900 D	3,710 D	13,600 D
Antimony	<30.2	<5.9	<11.1	<5.6	9.6 J
Arsenic	15.9 QJ	<1.2	34.4 SQJ	1.4 JQ	<1.9
Barium	297	8.7 JD	174	21.7 J	22.0 JD
Beryllium	4.1 J	<0.14	1.3 J	0.17 J	<0.21
Cadmium	267 QDJ	3.0 QDJ	2.6 QDJ	3.6 QDJ	57.7 QDJ
Calcium	13,900 D	263 JD	1,520 JD	443 JD	499 JD
Chromium	11,400 QDJ	169 QDJ	26.7 QDJ	185 QDJ	6,280 QDJ
Cobalt	29.5 J	1.4 J	12.8 J	2.0 J	5.3 J
Copper	779 D	9.0 D	78.5 D	16.8 D	1,010 D
Iron	47,600 D	1,940 D	22,800 D	3,710 D	2,320 D
Lead	740 QDJ	15.3	34.4 S	19.8	108 QDJ
Magnesium	5,500 JD	154 JD	1,600 JD	330 JD	1,330 JD
Manganese	1,730 QDJ	38.2 QDJ	432 QDJ	72.1 QDJ	124 QDJ
Mercury	5.4	<0.09	0.25	0.22	<0.16
Nickel	90.2 D	3.7 JD	15.6 JD	3.3 JD	13.0 JD
Potassium	894 J	95.1 J	867 J	205 J	<100
Selenium	<1.5	<0.28	1.4 JWQ	0.26 JQ	<0.45
Silver	360 D	5.4 D	<0.89	4.7 D	2.0 JD
Sodium	<1040	<203	481 J	<192	<298
Thallium	<2.8	<0.53	<1.1	<0.54	<0.77
Vanadium	142	3.3 J	33.0	7.9 J	17.4
Zinc	3,840 QDJ	66.6 QDJ	149 QDJ	85.9 QDJ	2,370 QDJ
Cyanide	116	1.7	3.2	3.6	10.2

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- e Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-12	B-12	B-13	B-13	B-13
Sample Type:	S	N	S	S	N
Sample Depth (ft):	5-7	7-9	0-5	5-9	9-11
Sample Date:	10/6	10/6	10/6	10/6	10/6
Parameter (mg/kg)					
Aluminum	21,400 D	3,210 D	19,900 D	12,000 D	3,240 D
Antimony	<20.5	<7.8	<13.3	<9.4	<5.2
Arsenic	12.7 QJ	2.8 J	10.4 QJ	4.2 QJ	1.5 JWQ
Barium	316	24.3 JD	125	91.5	31.6 JD
Beryllium	<0.49	<0.19	0.70 J	0.89 J	<0.13
Cadmium	252 QDJ	5.6 QDJ	57.6 QDJ	45.9 QDJ	9.4 QDJ
Calcium	103,000 D	9,960 D	18,000 D	18,900 D	12,600 D
Chromium	6,740 D	248 QDJ	8,010 QDJ	4,420 QDJ	630 QDJ
Cobalt	27.3 J	2.4 J	18.2 J	10.5 J	3.1 J
Copper	217 D	16.4 D	666 D	294 D	38.0 D
Iron	49,700 D	4,880 D	42,400 D	26,000 D	7,930 D
Lead	374 QDJ	73.4 QDJ	289 QDJ	212 QDJ	37.3
Magnesium	9,940 D	895 JD	5,270 D	3,450 D	2,820 D
Manganese	1,290 QDJ	85.8 QDJ	894 QDJ	500 QDJ	156 QDJ
Mercury	5.2	0.48	1.4	1.1	0.23
Nickel	42.5 D	5.4 JD	39.1 D	25.6 D	6.1 JD
Potassium	578 J	327 J	475 J	312 J	191 J
Selenium	<0.86	<0.38	<0.64	<0.42	<0.22
Silver	139 D	5.0 D	106 D	62.1 D	10.9 D
Sodium	<707	<268	<458	<322	<180
Thallium	<2.0	<0.85	<0.96	<0.43	<0.38
Vanadium	84.8	8.2 J	63.1 J	34.5	11.0
Zinc	2,500 QDJ	97.1 QDJ	2,680 QDJ	1,400 QDJ	209 QDJ
Cyanide	41.6	9.2	17.4	14.2	4.4

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-14	B-14	B-14	B-15	B-15
Sample Type:	S	S	S/N*	S	S
Sample Depth (ft):	0-8	8-13	13-19	0-7	7-10
Sample Date:	10/7	10/7	10/7	10/10	10/10
Parameter (mg/kg)					
Aluminum	24,600 D	10,400 D	476 D	30,300	29,300
Antimony	<14.8	<8.1	<4.9	15.6 J	14.4 J
Arsenic	7.0 SQJ	6.7 QJ	<0.55	9.9 QJ	11.3 QJ
Barium	93.8 JD	123	<8.1	168	<23.2
Beryllium	0.95 JQD	<0.20	<0.12	3.3	5.9
Cadmium	50.2 QDJ	63.8 QDJ	<0.46	59.5	63.9
Calcium	6,360 D	18,400 D	165 JD	30,600	24,700
Chromium	4,880 QDJ	2,370 QDJ	16.7 QDJ	9,250	8,550
Cobalt	13.5 J	10.3 J	<0.99	21.4 J	18.7 J
Copper	494 D	95.3 D	<2.6	1,130	1,040
Iron	22,900 D	25,000 D	1,430 D	43,600	39,400
Lead	257 QDJ	234 QDJ	1.6	368	358
Magnesium	4,150 D	3,220 D	91.4 JD	8,860	8,110
Manganese	384 QDJ	658 QDJ	10.9 QDJ	1,220	978
Mercury	0.71	0.54	<0.10	1.2	0.78
Nickel	41.3 D	23.6 D	<2.2	53.8	55.9
Potassium	697 J	569 J	<57.4	714 J	550 J
Selenium	0.70 J	<0.36	0.75 JQ	<0.75	0.99 JQ
Silver	24.5 D	86.5 D	<0.40	149 D	78.3 D
Sodium	<509	505 J	<170	859 J	812 J
Thallium	<0.90	<0.56	<0.33	<1.6	<1.3
Vanadium	85.1	32.3	1.2 J	57.1	60.0
Zinc	1,400 QDJ	968 QDJ	6.5 QDJ	4,240	3,820
Cyanide	30.0	14.7	<0.65	84.0	44.0

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- * Designates dominant component of composite sample.

Table 8. Concentrations of Total Metals and Cyanide Detected in Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Sample Designation:	B-15	B-16	B-16	B-16
Sample Type:	N	S	S	N
Sample Depth (ft):	10-17	0-5	5-7	7-11
Sample Date:	10/10	10/10	10/10	10/10
Parameter (mg/kg)				
Aluminum	25,500	34,600	26,700	659
Antimony	13.8 J	<16.4	<12.3	<5.7
Arsenic	13.3 QJ	13.4 QJ	12.1 QJ	<0.60
Barium	420	198	151	<9.4
Beryllium	<0.31	4.6	6.4	<0.14
Cadmium	85.5	66.0	56.4	<0.46
Calcium	24,400	18,800	14,300	123 J
Chromium	3,840	8,010	5,440	8.5
Cobalt	22.4 J	22.8 J	15.4 J	<1.1
Copper	333	970	865	<3.0
Iron	48,500	46,600	30,400	1,450
Lead	686	422	348	<4.8
Magnesium	7,640	7,030	5,530	110 J
Manganese	982	959	625	26.5
Mercury	2.3	1.2	0.66	<0.08
Nickel	47.2	57.7	45.5	<2.5
Potassium	1200 J	754 J	525 J	120 J
Selenium	1.9 JQN	1.4 JQW	0.57 SQJ	<0.24
Silver	115 D	79.8 D	52.9 D	<0.46
Sodium	1210 J	605 J	442 J	<197
Thallium	<1.5	<1.6	<1.1	<0.56
Vanadium	65.8	94.2	74.1	2.2 J
Zinc	1,800	3,650	3,040	8.0
Cyanide	9.5	45.2	53.6	<0.65

All results in milligrams per kilogram (mg/kg).

- J Estimated value.
- Q Spiked sample recovery not within control limits.
- W Post-digest spike recovery not within control limits.
- D Duplicate analysis not within control limits.
- S Sediment.
- N Native soil.
- • Designates dominant component of composite sample.

Table 9. Results of EP Toxicity Testing of Soil Samples Collected from the Old Recharge Basin in September and October 1988 for Fairchild Republic Company, East Farmingdale, New York.

Parameter (mg/L):				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
				5.0a	100.0a	1.0a	5.0a	5.0a	0.2a	1.0a	5.0a
Sample Designation	Sample Type	Sample Depth (feet)	Sample Date								
B-1	N	4-7	9/27/88	<1.0	<0.20	0.05	0.01	<0.20	<0.002	<0.5	<0.01
B-2	S	5-7	9/27/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-3	S	2-4	9/28/88	<1.0	<0.20	0.02	0.01	<0.20	<0.002	<0.5	<0.01
B-4	S	2-6	9/28/88	<1.0	0.36	0.04	0.02	<0.20	<0.002	<0.5	<0.01
B-5	S/N	2-4	9/28/88	<1.0	<0.20	0.32	<0.01	<0.20	<0.002	<0.5	<0.01
B-6	S	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-7	S/N	0-2	9/29/88	<1.0	<0.20	0.02	<0.01	<0.20	<0.002	<0.5	<0.01
B-8	N	2-4	9/29/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-9	N	4-6	10/4/88	<1.0	<0.20	0.02	0.02	<0.20	<0.002	<0.5	<0.01
B-10	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-11	N	4-6	10/5/88	<1.0	<0.20	0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-12	N	7-9	10/6/88	<1.0	0.38	0.06	0.05	<0.20	<0.002	<0.5	<0.01
B-13	N	9-11	10/6/88	<1.0	0.21	0.04	<0.01	<0.20	<0.002	<0.5	<0.01
B-14	S/N	13-19	10/7/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01
B-15	S/N	10-17	10/10/88	<1.0	0.37	<0.01	0.03	<0.20	<0.002	<0.5	<0.01
B-16	S/N	7-11	10/10/88	<1.0	<0.20	<0.01	<0.01	<0.20	<0.002	<0.5	<0.01

All results in milligrams per liter (mg/L).

a Minimum concentration (mg/L) required for declaring a material hazardous.

S Sediment.

N Native soil.

* Designates dominant component of composite sample.