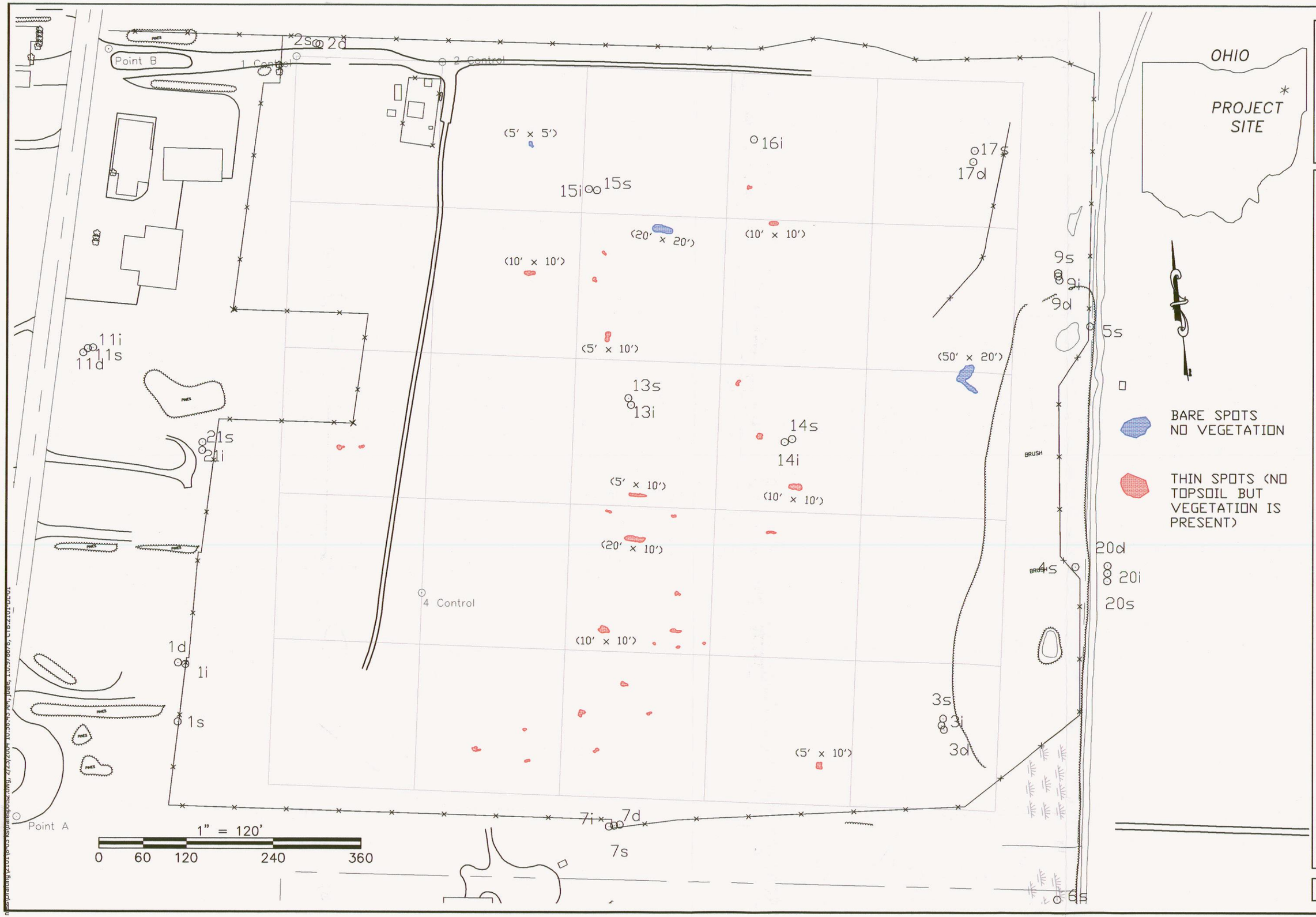
Point B
1 Control
2 Control
4 Control
Point A
2s 2d
11i 11s 11d
21s 21i
1d 1i 1s
(5' x 5')
15i 15s
16i
17s 17d
(20' x 20')
(10' x 10')
(10' x 10')
(5' x 10')
13s 13i
14s 14i
(5' x 10')
(10' x 10')
(20' x 10')
(10' x 10')
(5' x 10')
(50' x 20')
9s 9i 9d
5s
BRUSH
4s
20d 20i 20s
3s 3i 3d
7i 7d 7s
6s
1" = 120'
0 60 120 240 360
OHIO
PROJECT SITE
BARE SPOTS NO VEGETATION
THIN SPOTS (NO TOPSOIL BUT VEGETATION IS PRESENT)
SHARP AND ASSOCIATES, INC.
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COLUMBUS, OHIO 43229
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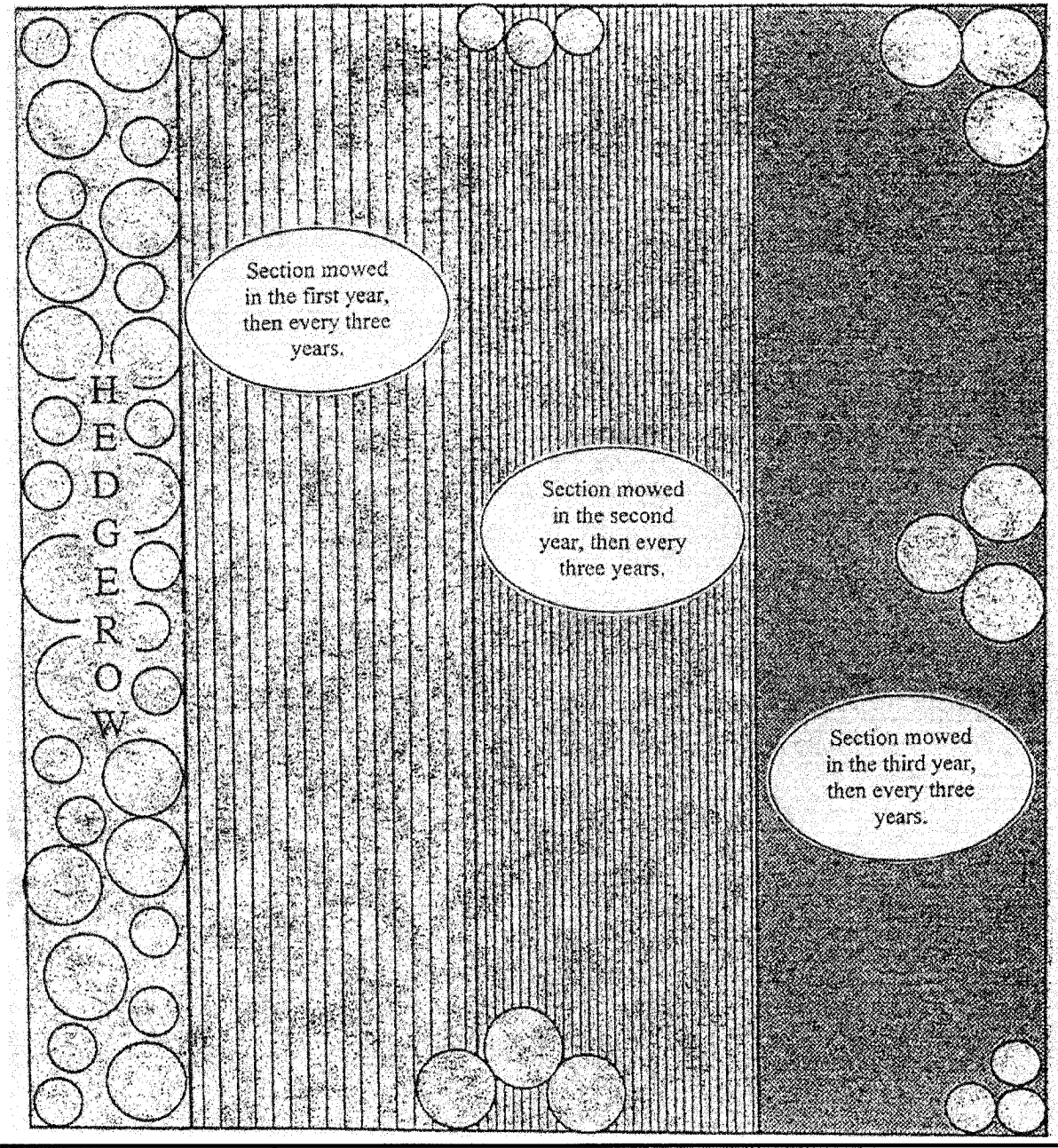
Project Reference: 2101
IEL UNIONTOWN, OHIO
Client: IEL PRP GROUP
IEL SITE CONDITIONS JULY 31, 2003

FIGURE 11



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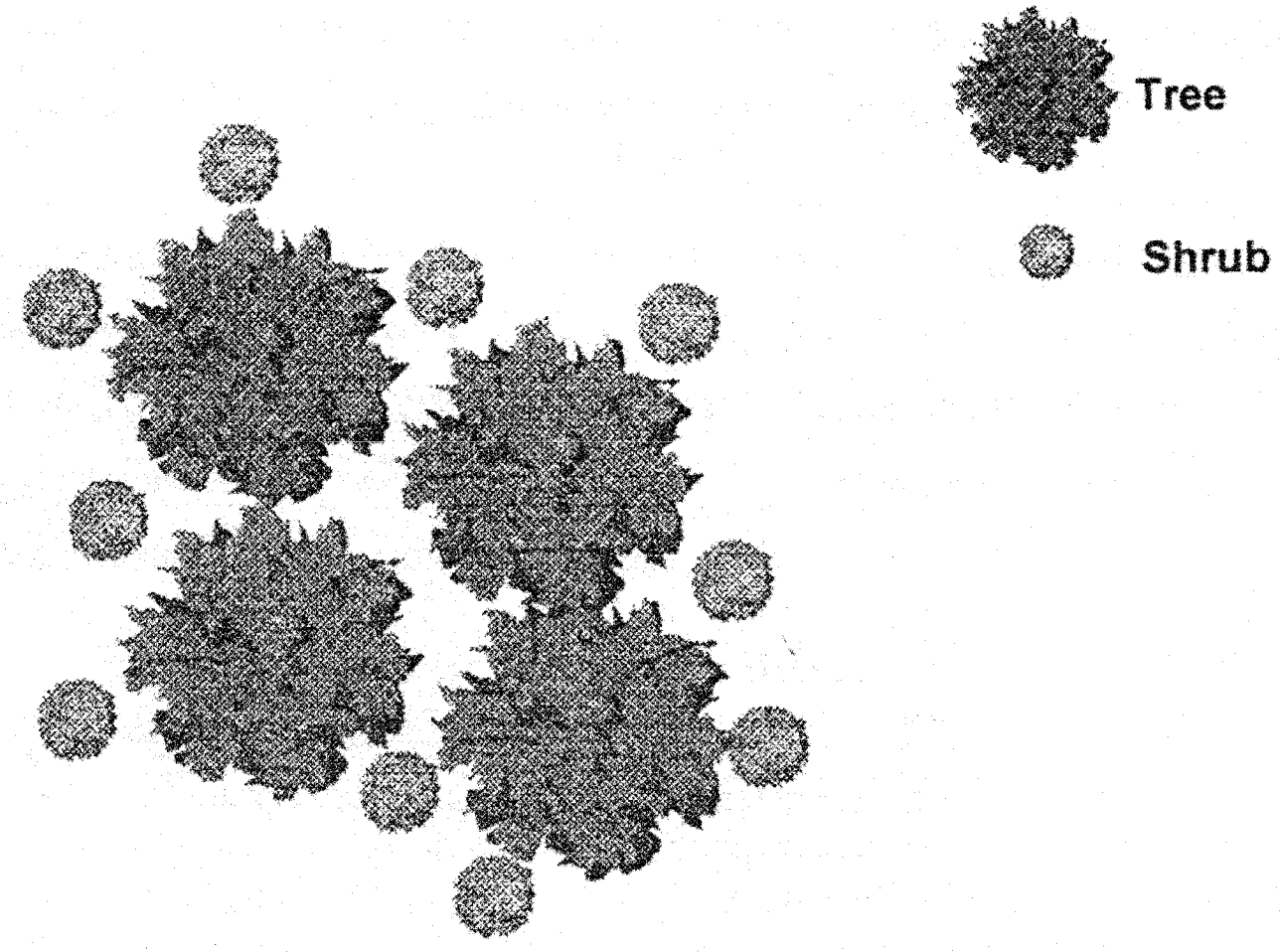
CONCEPTUAL ROTATION MOWING PROGRAM (FROM WHC REPORT)

INDUSTRIAL EXCESS LANDFILL
UNIONTOWN, OHIO

PROJECT NUMBER	DATE	FILE NAME	SCALE
2101	08/15/03	2101/FIG.12	N.T.S.

FIGURE
12



Trees should be planted 12 feet apart

Shrubs should be planted 3 feet apart

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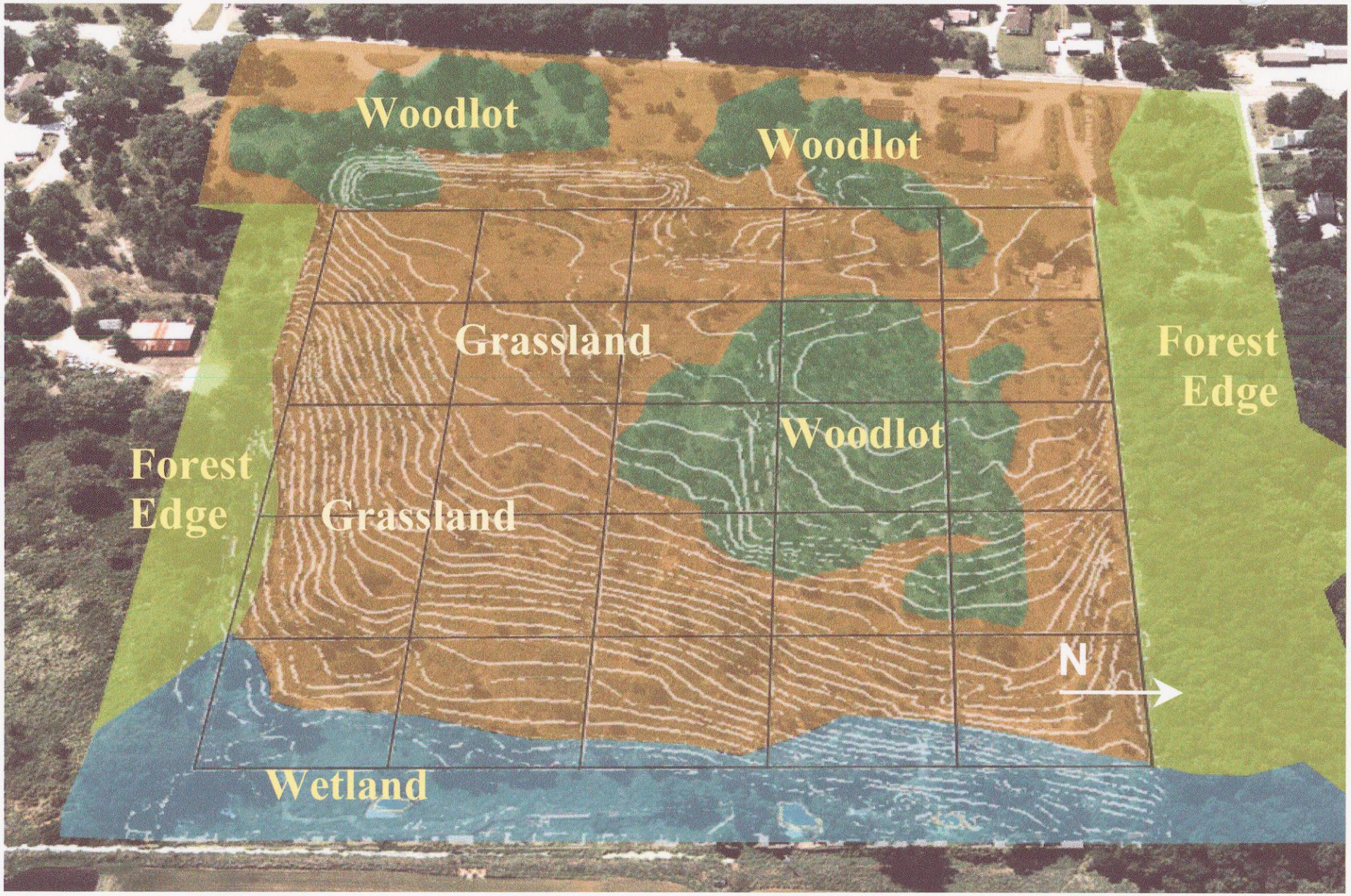
CONCEPTUAL FORESTED ISLAND (FROM WHC REPORT)

INDUSTRIAL EXCESS LANDFILL
UNIONTOWN, OHIO

PROJECT NUMBER	DATE	FILE NAME	SCALE
2101	08/15/03	2101/FIG.13	N.T.S.

FIGURE
13



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CURRENT (AUGUST 2000) ECOLOGICAL REGIMES (FIGURE 1 FROM PETITION)

INDUSTRIAL EXCESS LANDFILL
UNIONTOWN, OHIO

PROJECT NUMBER	DATE	FILE NAME	SCALE
2101	08/15/03	2101/FIG.14	N.T.S.

FIGURE
14

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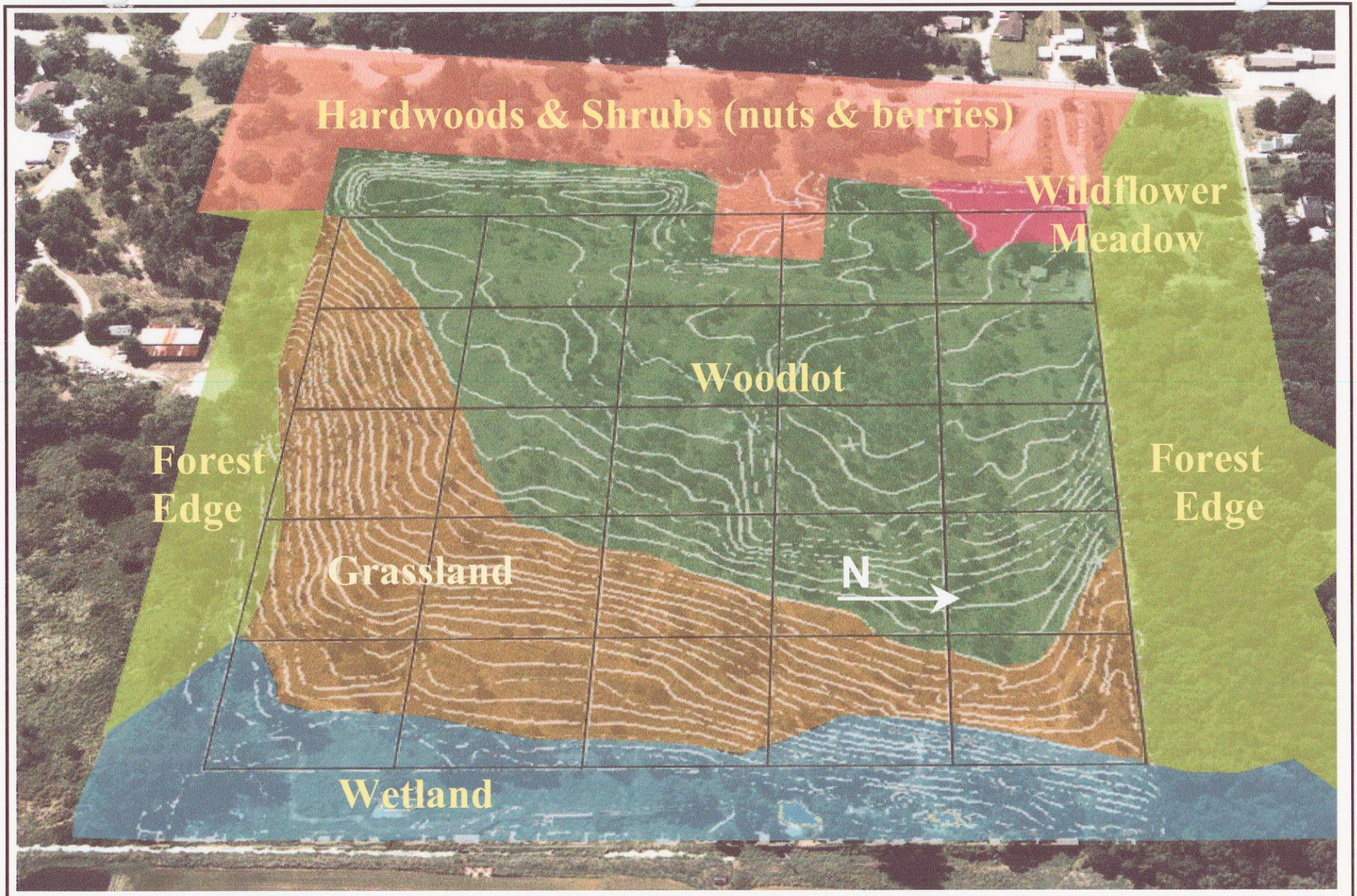
PROPOSED TREE PLANTING AREA (FIGURE 2 FROM PETITION)

INDUSTRIAL EXCESS LANDFILL
UNIONTOWN, OHIO

PROJECT NUMBER	DATE	FILE NAME	SCALE
2101	08/15/03	2101/FIG.15	N.T.S.

FIGURE
15



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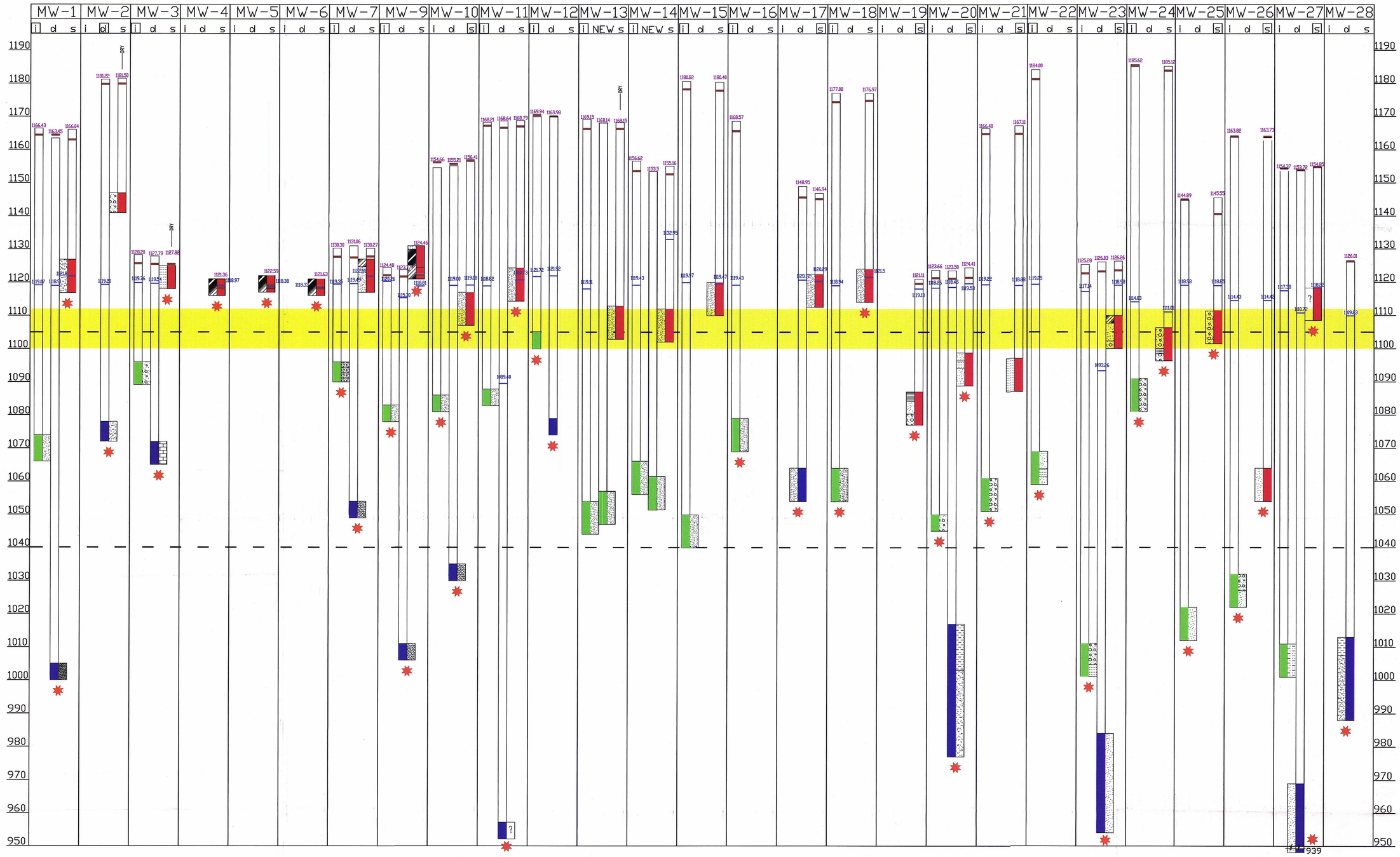
FUTURE ECOLOGICAL REGIMES (FIGURE 3 FROM PETITION)

INDUSTRIAL EXCESS LANDFILL
UNIONTOWN, OHIO

PROJECT NUMBER	DATE	FILE NAME	SCALE
2101	08/15/03	2101/FIG.16	N.T.S.

FIGURE 16



LEGEND

- SHALLOW (s) WELLS - SCREENED INTERVAL
- INTERMEDIATE (i) WELLS - SCREENED INTERVAL
- DEEP (d) WELLS - SCREENED INTERVAL
- NO GROUNDWATER CONTAMINANTS DETECTED FOR +10 YEARS
- 1,100-1,112' ZONE MAPPED BY THE USGS.
- INTERPRETED AS REPRESENTING UPPERMOST CONTINUOUS GW UNIT
- XXX.XX AUG. 2000 GROUNDWATER ELEVATION
- XXX.XX TOP OF CASINGS ELEVATION (SEPT. 26, 2000)
- GROUND ELEVATION (AUG. 2000)

REFERENCE: DUMOUCHELLE, DENISE H. AND BAIR SCOTT E, 1994 GROUND-WATER LEVELS AND DIRECTIONS OF FLOW NEAR INDUSTRIAL EXCESS LANDFILL, UNIONTOWN, OHIO, MARCH 1994, USGS WATER-RESOURCES INVESTIGATION REPORT 94-4136, 17p.

LITHOLOGIES ADJACENT TO MW SCREENS:

- LIMESTONE
- PEAT
- SAND
- SANDSTONE
- SILT
- PEBBLES, COBBLES, GRAVEL
- SANDSTONE/ SILTSTONE
- SHALE
- SANDY GRAVEL; SAND & GRAVEL
- CLAYEY SAND
- CLAY

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IEL MONITORING WELLS WELL DESIGNATION & COMPLETION DEPTH

FILE NAME: 2101-ISD-WELLSREV03	DATE: 8/8/03	FIGURE A2
PROJECT #: 2101	SCALE: N.T.S.	

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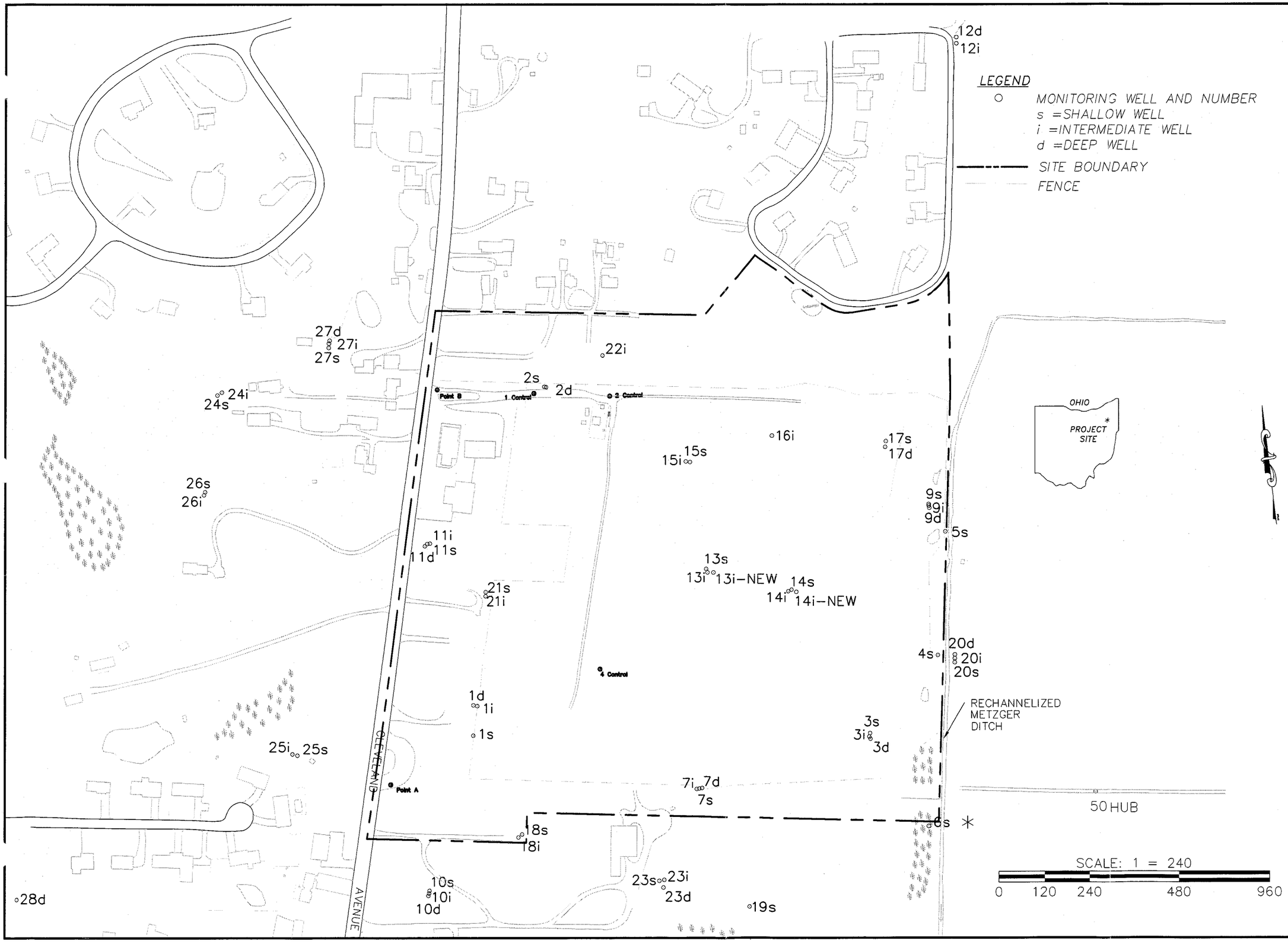

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Project Reference: 2101

Client: IEL PRP GROUP

IEL SITE MAP W/CURRENT
MONITORING WELL NETWORK

FIGURE 17

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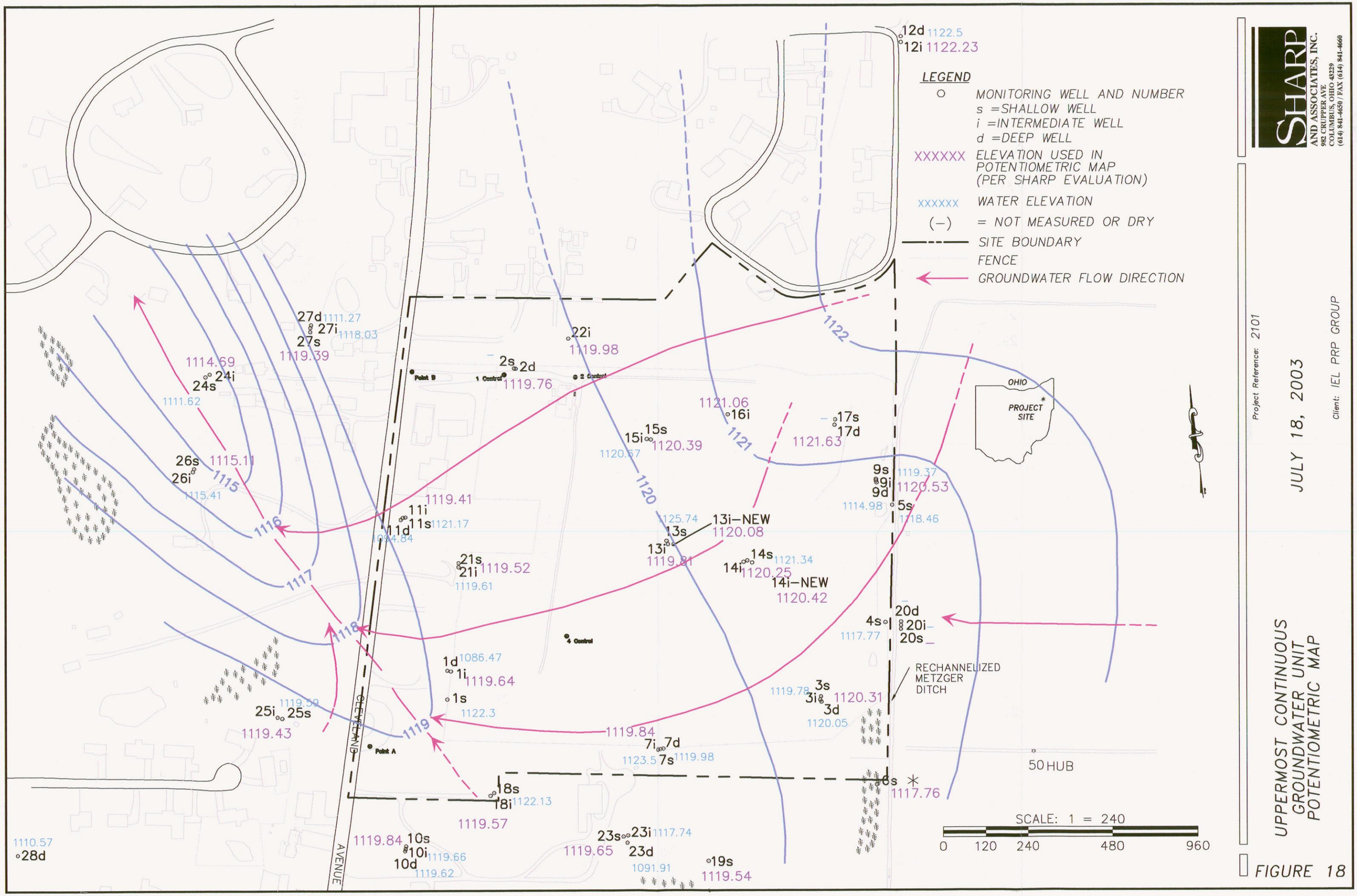

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(614) 841-4650 / FAX (614) 841-4660

Project Reference: 2101

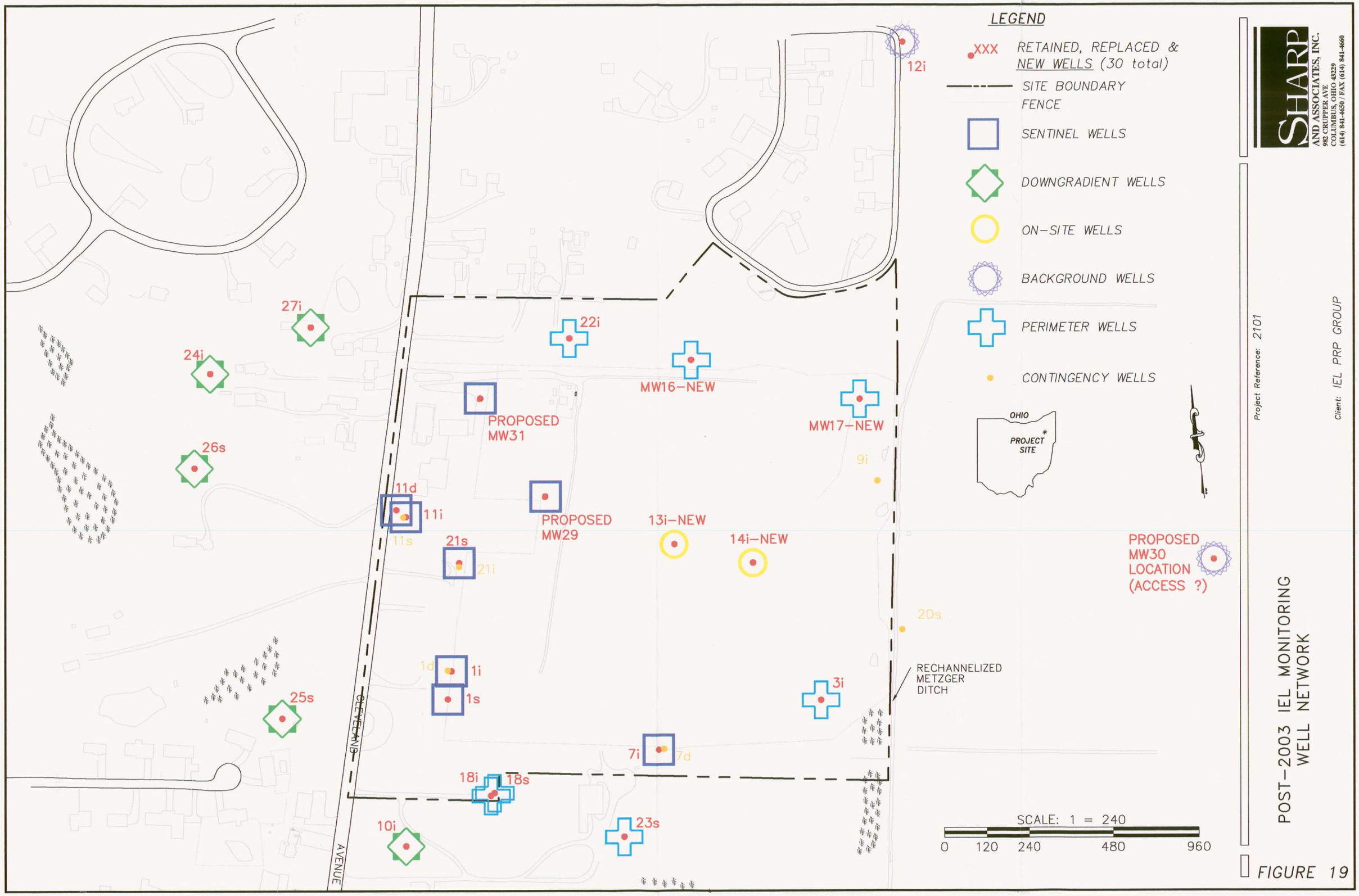
JULY 18, 2003

Client: IEL PRP GROUP

UPPERMOST CONTINUOUS GROUNDWATER UNIT POTENTIOMETRIC MAP

FIGURE 18

ness\Drafting\2101\8-03 ks\2101-KS-02.dwg, 2/23/2004 10:54:40 AM, jbale, 1:233.396, CTB:2101-DL-01



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Project Reference: 2101

Client: IEL PRP GROUP

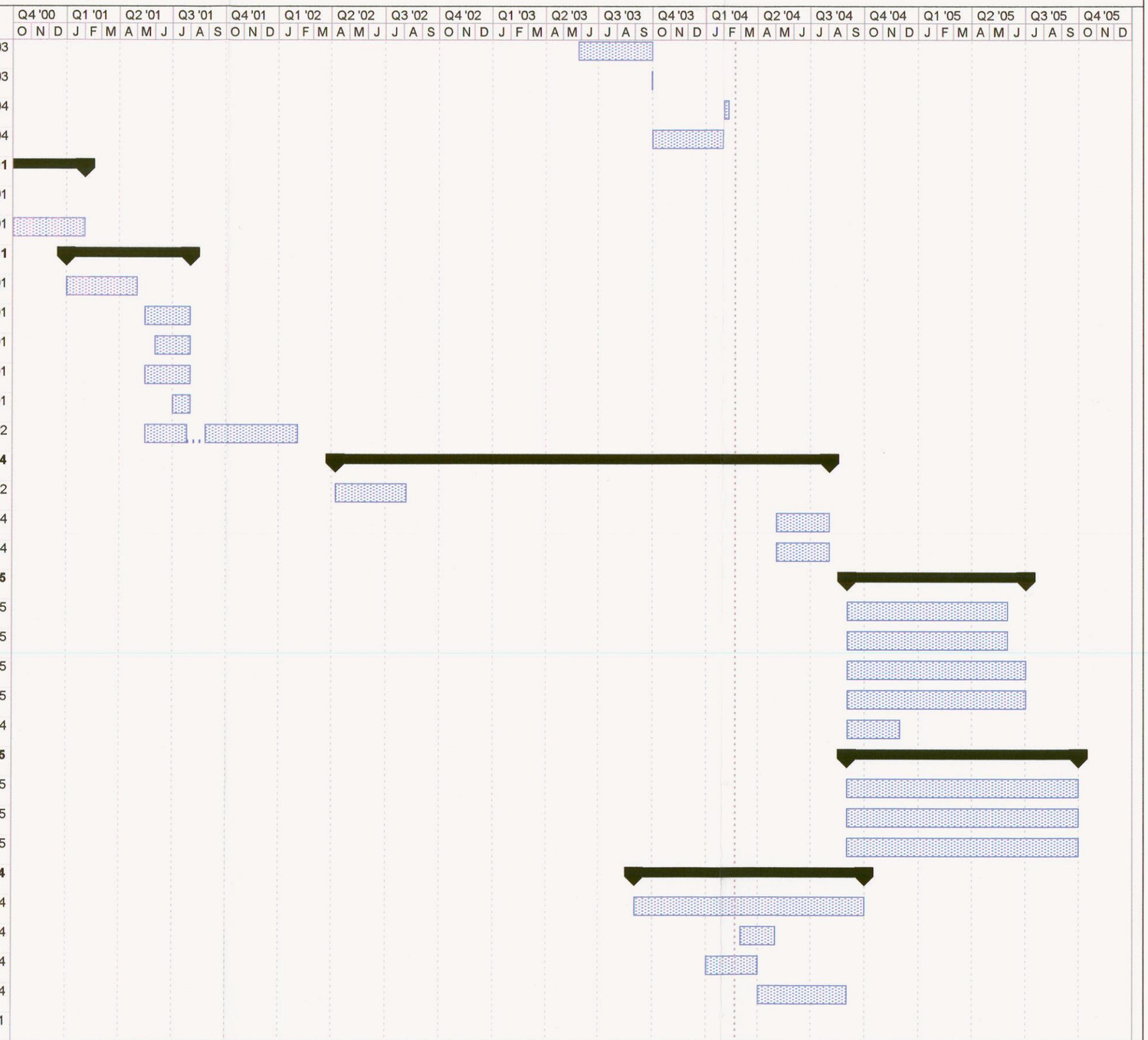
POST-2003 IEL MONITORING WELL NETWORK

FIGURE 19

\\Colbusiness\Drafting\2101\8-03 ks\2101-ks-04rev1.dwg, 2/23/2004 10:56:46 AM, jbale, 1:240.216, CTB:2101-DL-01

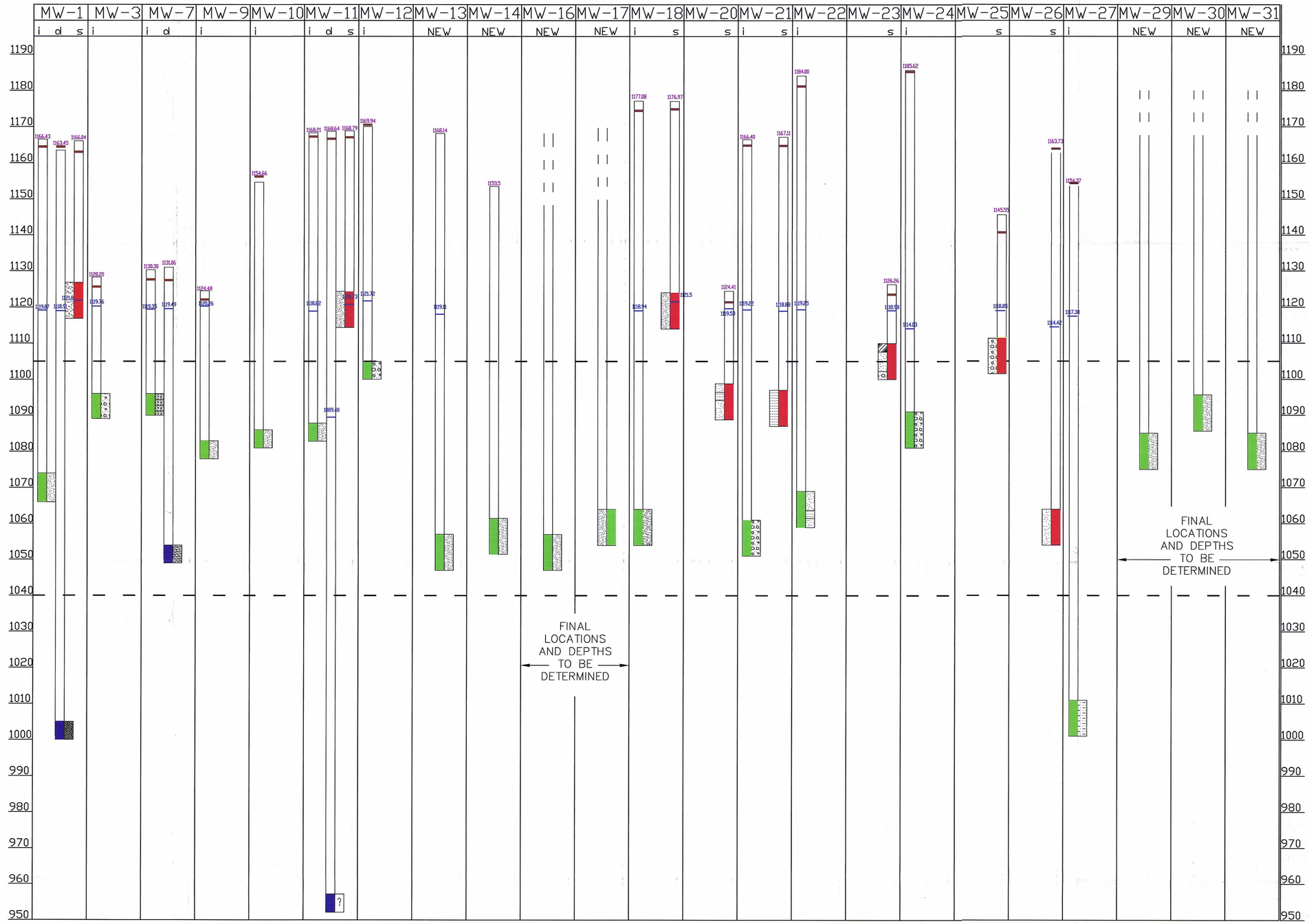
Figure 20. IEL Remedial Implementation Schedule

ID	ID	Task Name	Duration	Start	Finish
1	1	Detailed Design Submittals through Approval	90 days	Wed 5/28/03	Tue 9/30/03
2	2	Notice to Proceed	1 day	Tue 9/30/03	Tue 9/30/03
3	3	Mobilization/Demobilization	6 days	Mon 2/2/04	Mon 2/9/04
4	4	Revise Work Plans, through approval	88 days	Wed 10/1/03	Fri 1/30/04
5	**5**	**Pre-Remedy**	**2633 days**	**Tue 1/1/91**	**Thu 2/1/01**
6	6	Provide for alternate water supply	261 days	Tue 1/1/91	Tue 12/31/91
7	7	Characterize/Remove/Dispose Investig'n-Derived Was	89 days	Mon 10/2/00	Thu 2/1/01
8	**8**	**Demolish Buildings along Cleveland Avenue**	**153 days**	**Mon 1/1/01**	**Tue 7/31/01**
9	9	Prepare plans through approval process	87 days	Mon 1/1/01	Tue 5/1/01
10	10	Properly abandon 8 USTs	57 days	Tue 5/15/01	Tue 7/31/01
11	11	Properly abandon 2 monitoring wells and 2 septic	44 days	Fri 6/1/01	Tue 7/31/01
12	12	Demolish 3 buildings and dispose of waste	57 days	Tue 5/15/01	Tue 7/31/01
13	13	Regrade and revegetate	23 days	Sun 7/1/01	Tue 7/31/01
14	14	Remove debris from site and dispose	168 days	Tue 5/15/01	Fri 2/1/02
15	**15**	**Re-work Monitoring Well Network**	**608 days**	**Mon 4/8/02**	**Mon 8/2/04**
16	16	Install new/replacement wells on-site, double case	86 days	Mon 4/8/02	Mon 8/5/02
17	17	Install new wells	67 days	Mon 5/3/04	Mon 8/2/04
18	18	Properly abandon monitoring/observation wells	67 days	Mon 5/3/04	Mon 8/2/04
19	**19**	**Enhance Vegetative Cover**	**217 days**	**Thu 9/2/04**	**Fri 7/1/05**
20	20	Plant trees (incl. Yr 1/2 replacements)	194 days	Thu 9/2/04	Tue 5/31/05
21	21	Plant Shrubs for edge environments	194 days	Thu 9/2/04	Tue 5/31/05
22	22	Establish grassland area through mowing	217 days	Thu 9/2/04	Fri 7/1/05
23	23	Remove invasive non-native species	217 days	Thu 9/2/04	Fri 7/1/05
24	24	Add soil / admendments to bare areas	64 days	Thu 9/2/04	Tue 11/30/04
25	**25**	**Wildlife Management Improvements**	**283 days**	**Wed 9/1/04**	**Fri 9/30/05**
26	26	Consulting/coordinating/implementing nest boxes, rap	283 days	Wed 9/1/04	Fri 9/30/05
27	27	Edge environments/brush piles, ect.	283 days	Wed 9/1/04	Fri 9/30/05
28	28	Wildflower meadows/hummingbird gardens	283 days	Wed 9/1/04	Fri 9/30/05
29	**29**	**Additional Studies**	**286 days**	**Mon 9/1/03**	**Thu 9/30/04**
30	30	WHC Studies and CAG Integration	286 days	Mon 9/1/03	Thu 9/30/04
31	31	Restore fencing and signage	45 days	Mon 3/1/04	Fri 4/30/04
32	32	Methane study	65 days	Thu 1/1/04	Wed 3/31/04
33	33	Future Use Risk Assessment	111 days	Thu 4/1/04	Tue 8/31/04
34	34	CERCLA 5-year review(s) (begin 9/2006 and 9/2011)	1326 days	Fri 9/1/06	Fri 9/30/11



Project: IEL Schedule Outline
Date: Fri 2/20/04

Task | Split | Progress | Milestone | Summary | Project Summary | External Tasks | External Milestone | Deadline



LEGEND

- SHALLOW (s) WELLS - SCREENED INTERVAL
- INTERMEDIATE (i) WELLS - SCREENED INTERVAL
- DEEP (d) WELLS - SCREENED INTERVAL

XXX.XX AUG. 2000 GROUNDWATER ELEVATION

XXX.XX TOP OF CASINGS ELEVATION (SEPT. 26, 2000)

GROUND ELEVATION

LITHOLOGIES ADJACENT TO MW SCREENS:

- SAND
- SILT
- SANDSTONE
- SANDY GRAVEL; SAND & GRAVEL
- CLAYEY SAND
- CARLISLE MUCK

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INDUSTRIAL EXCESS LANDFILL
REVISED MONITORING
WELL NETWORK

FILE NAME: 2101-FIG A-3.dwg	DATE: 9/19/03	FIGURE
PROJECT #: 2101	SCALE: N.T.S.	A3

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