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REMEDIAL INVESTIGATION REPORT
OU 2
NAVAL AIR STATION
PENSACOLA, FLORIDA

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APPENDIX E

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Comprehensive Long-Term
Environmental Action Navy (Clean)
Naval Air Station
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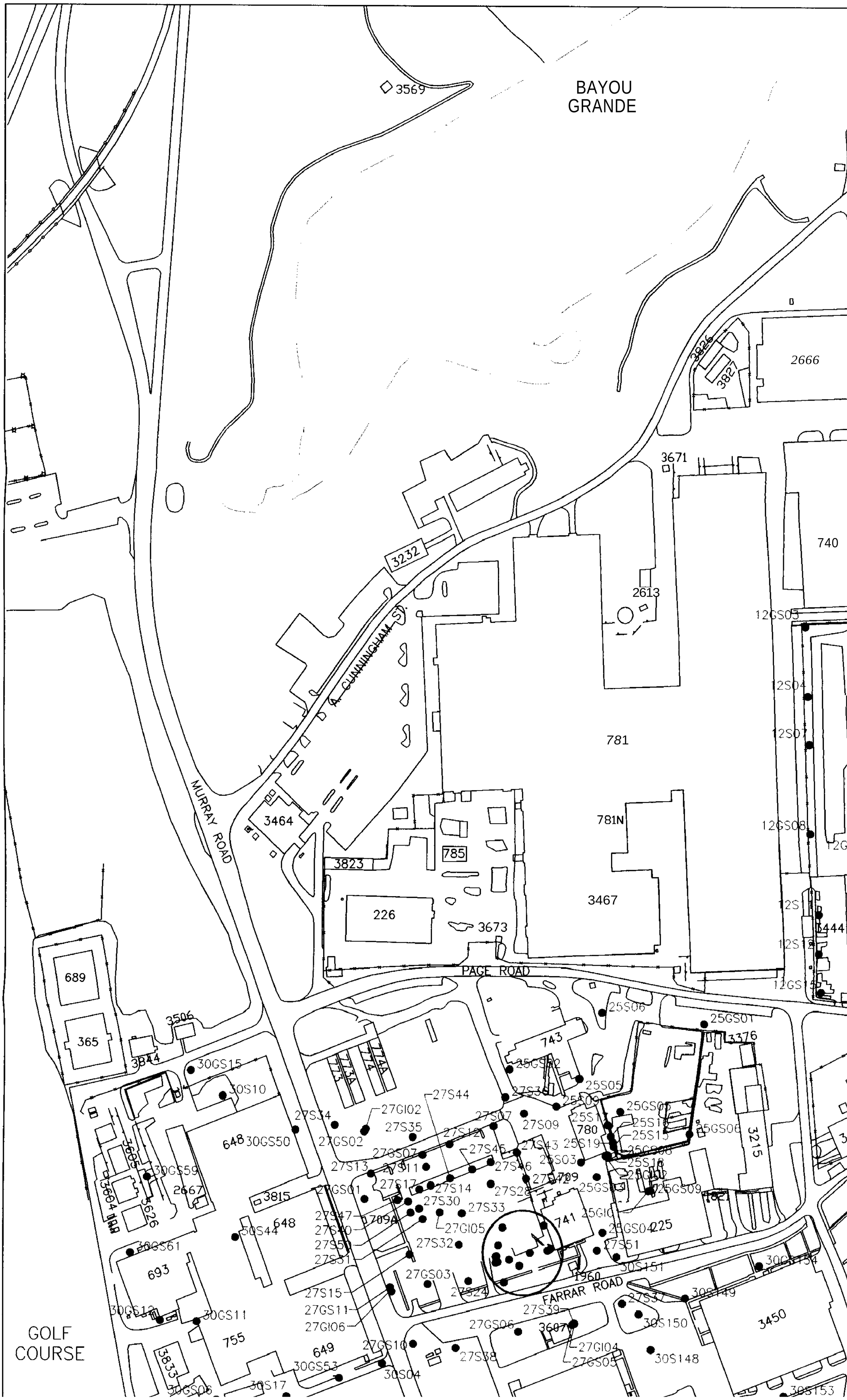
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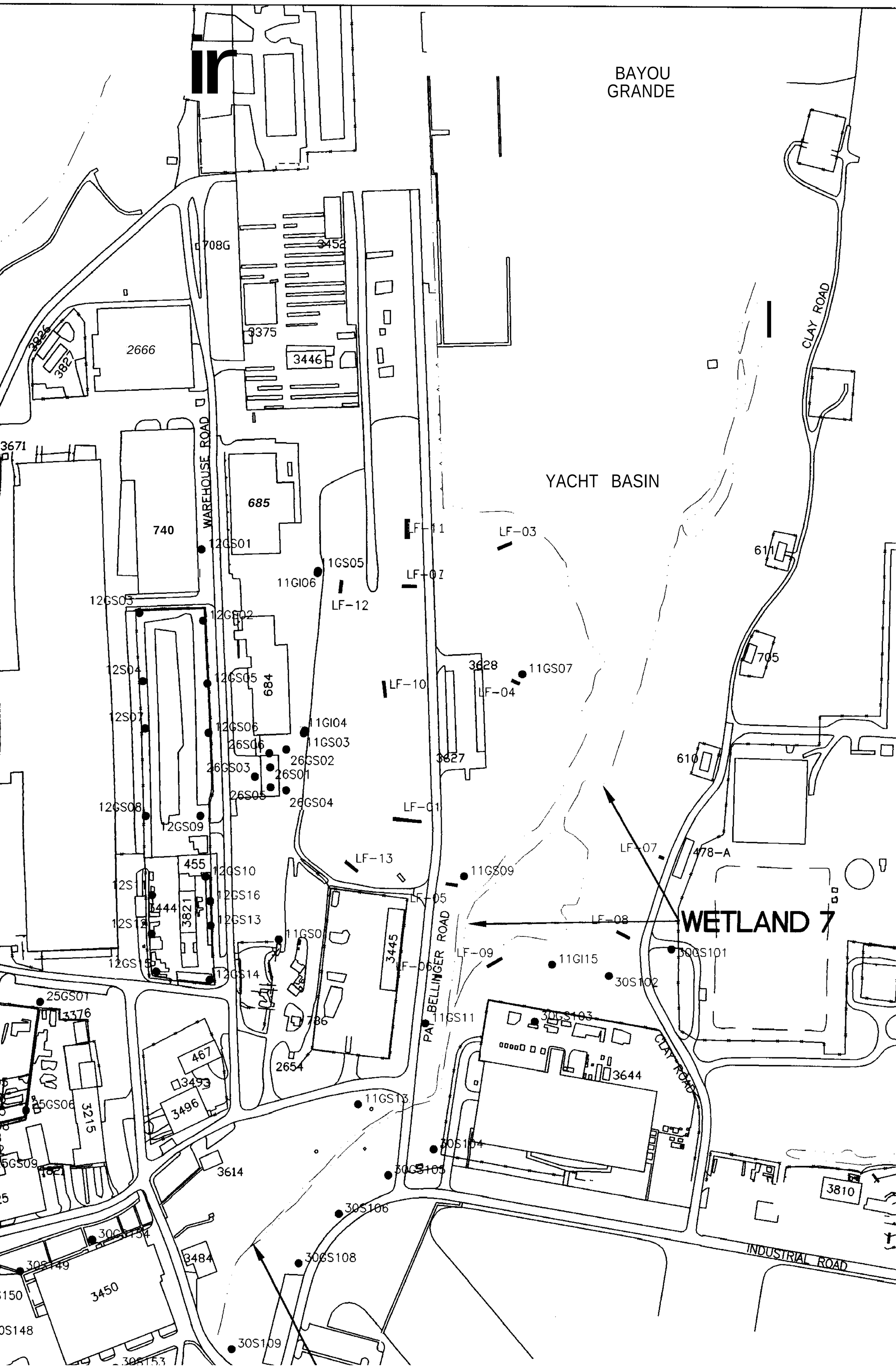
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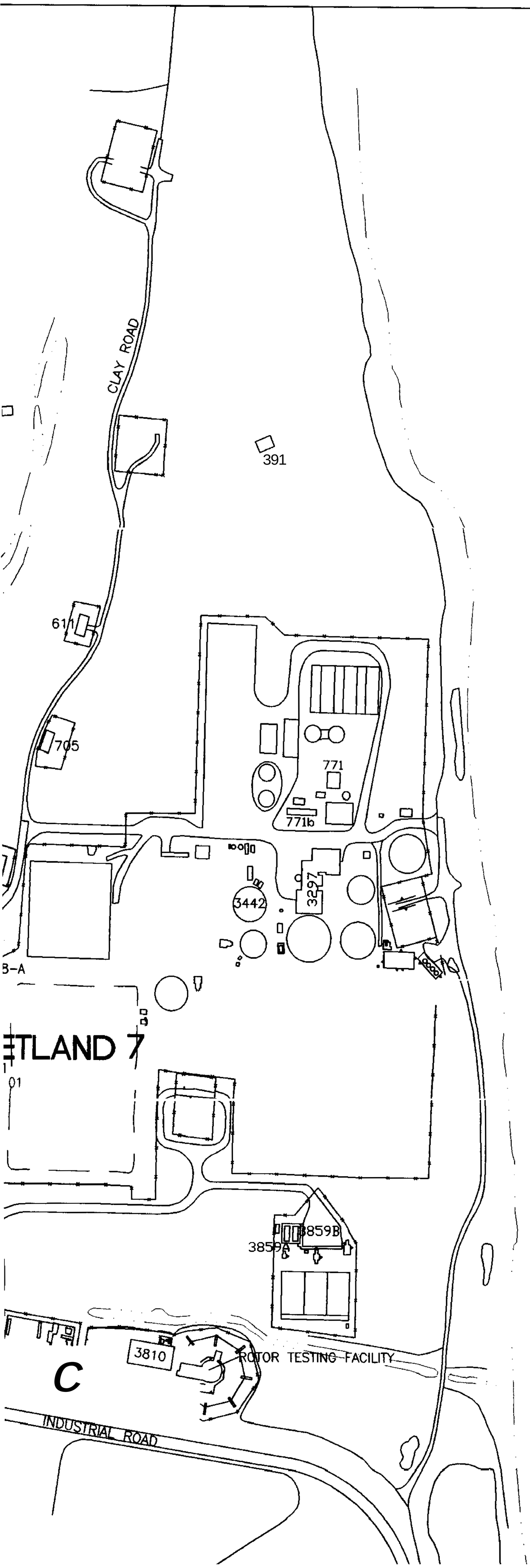

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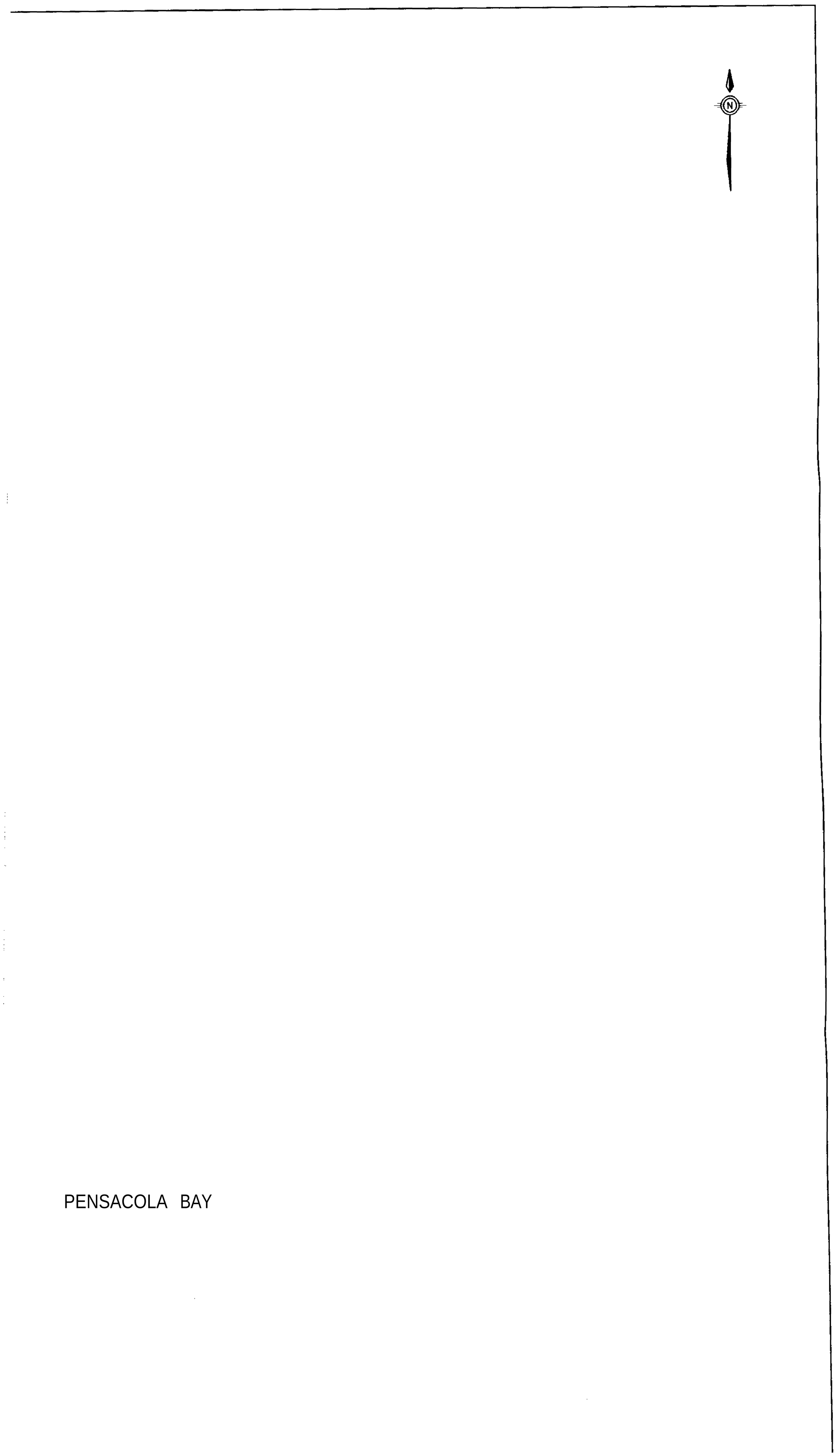
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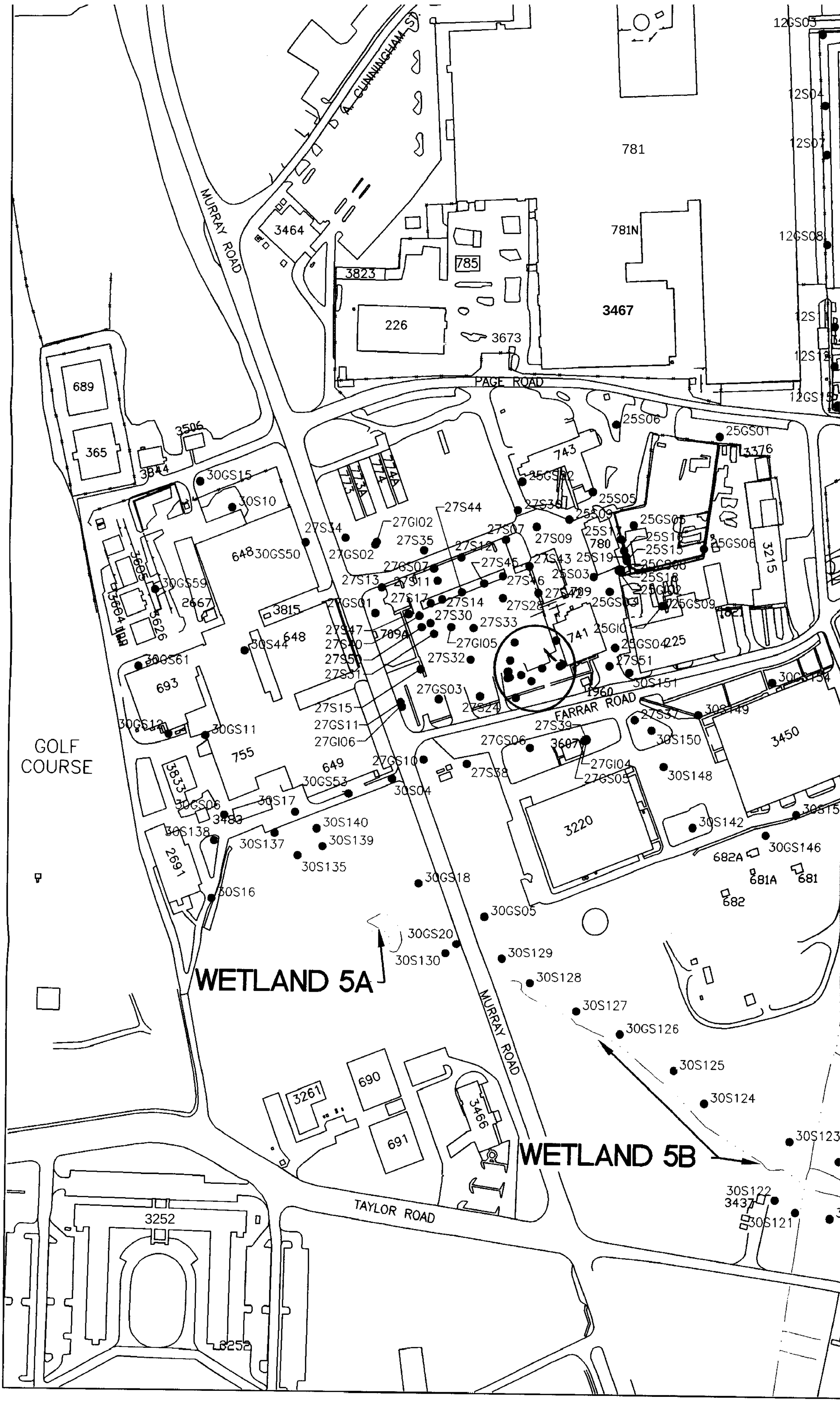
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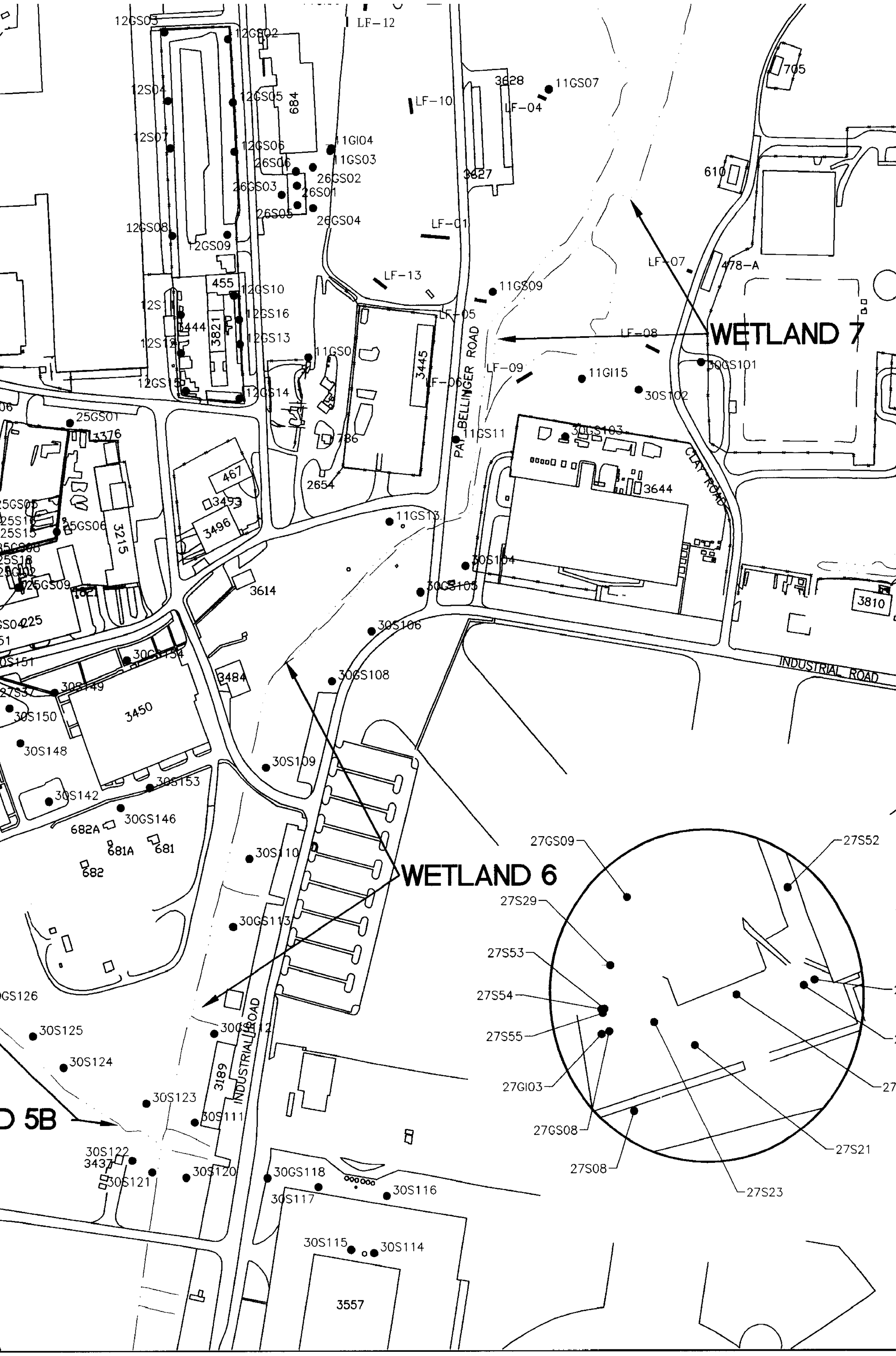
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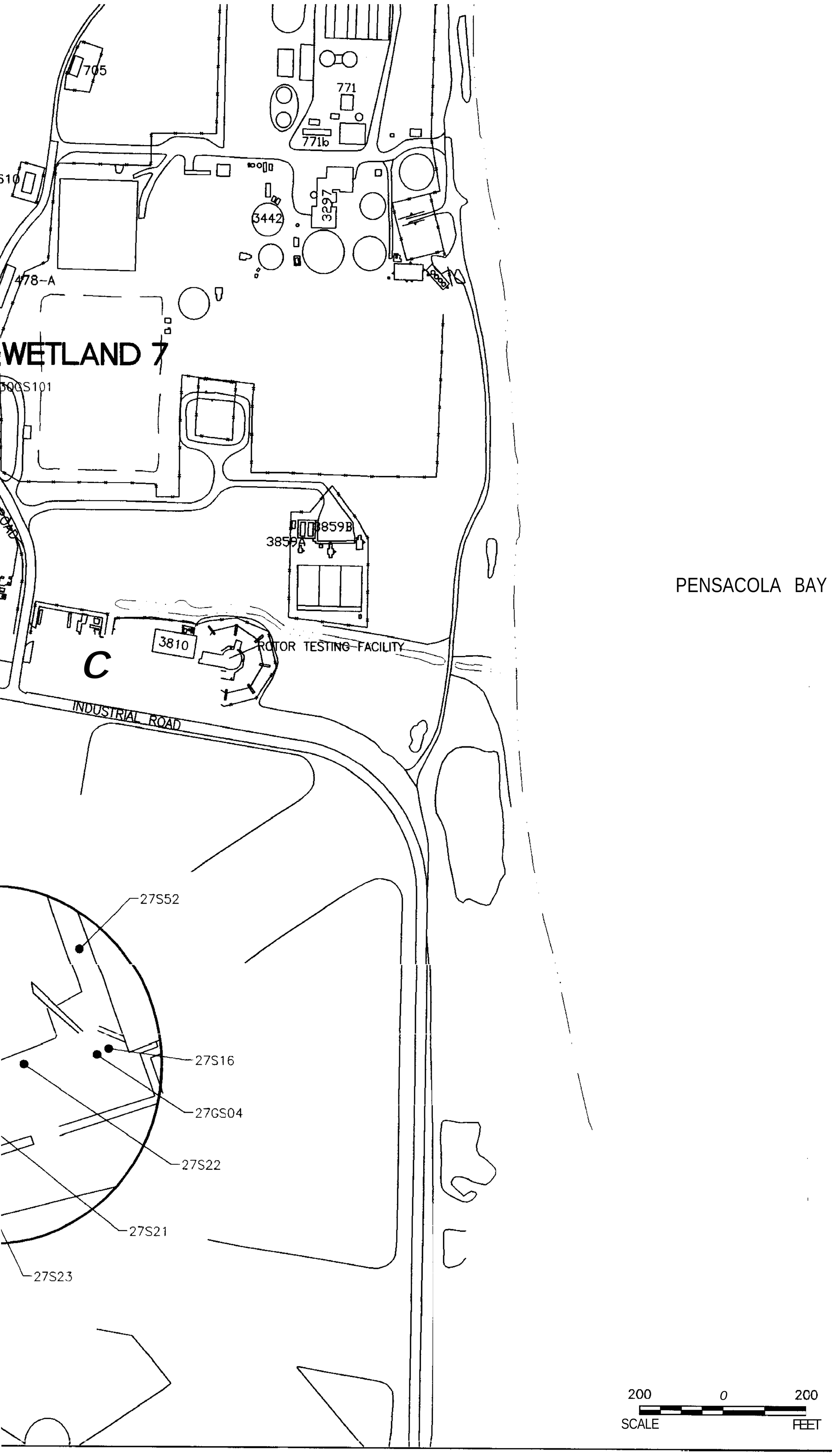
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FIGURE 1
SOIL BORING AND TRENCH SAMPLE LOCATIONS

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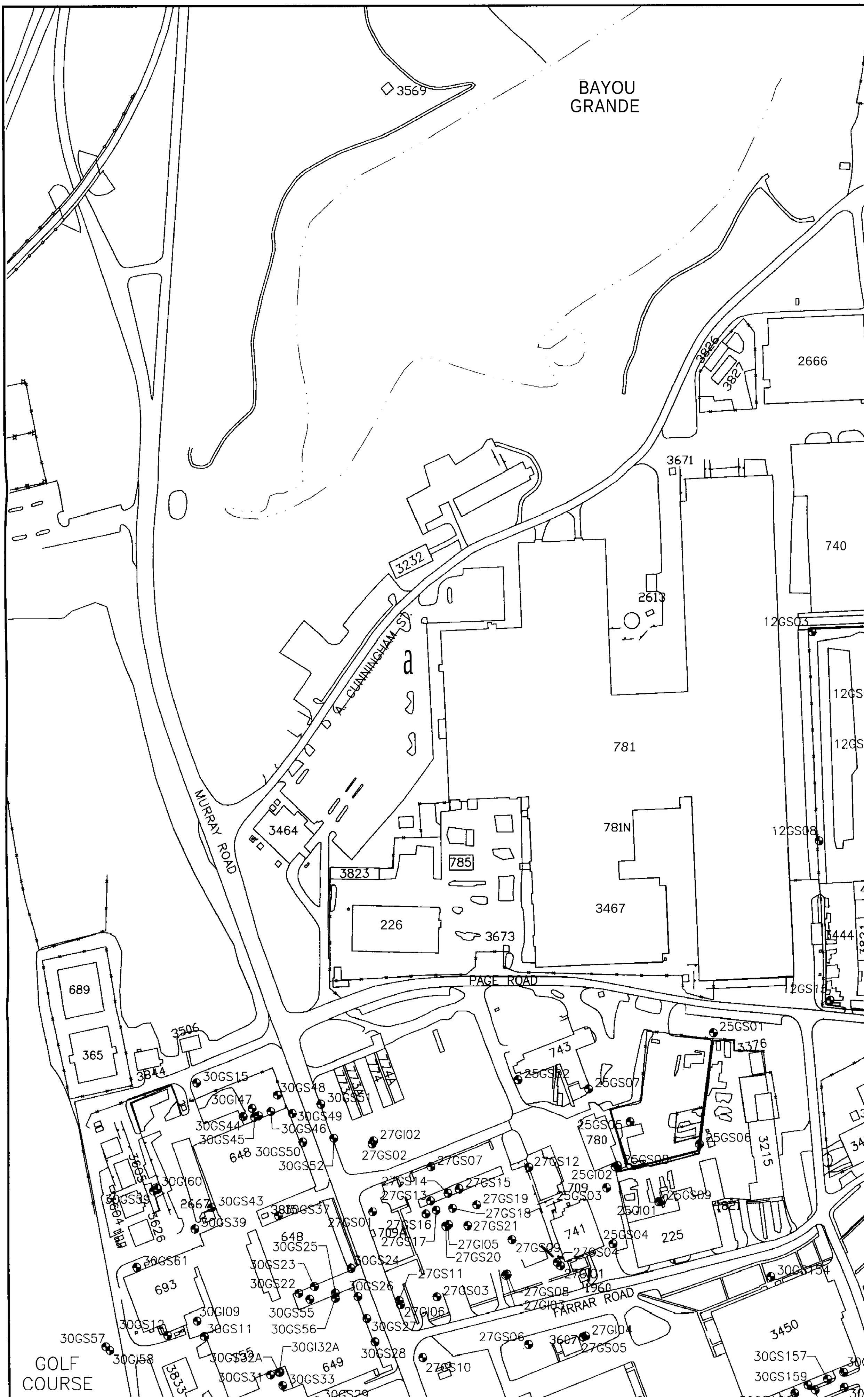
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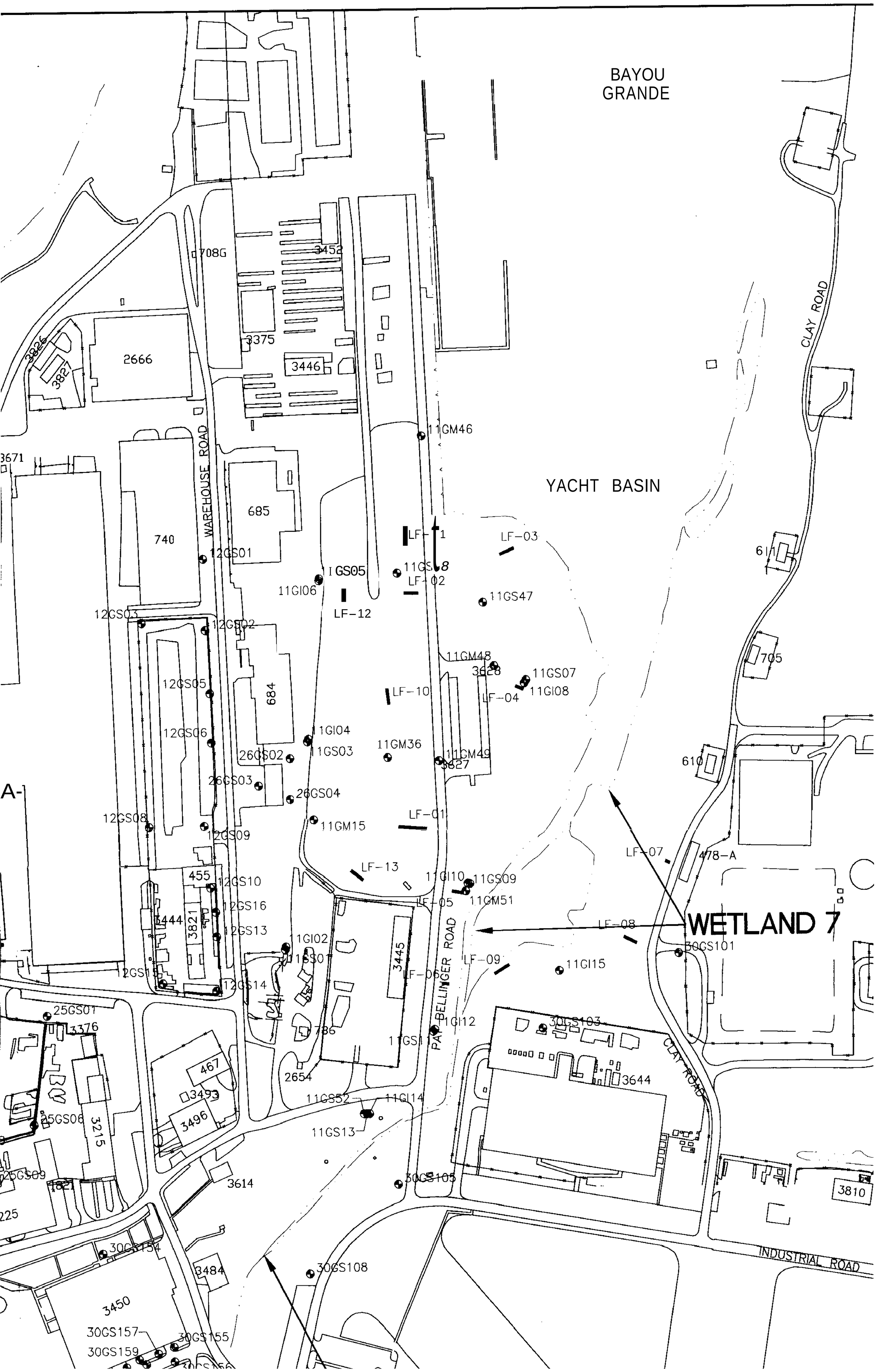
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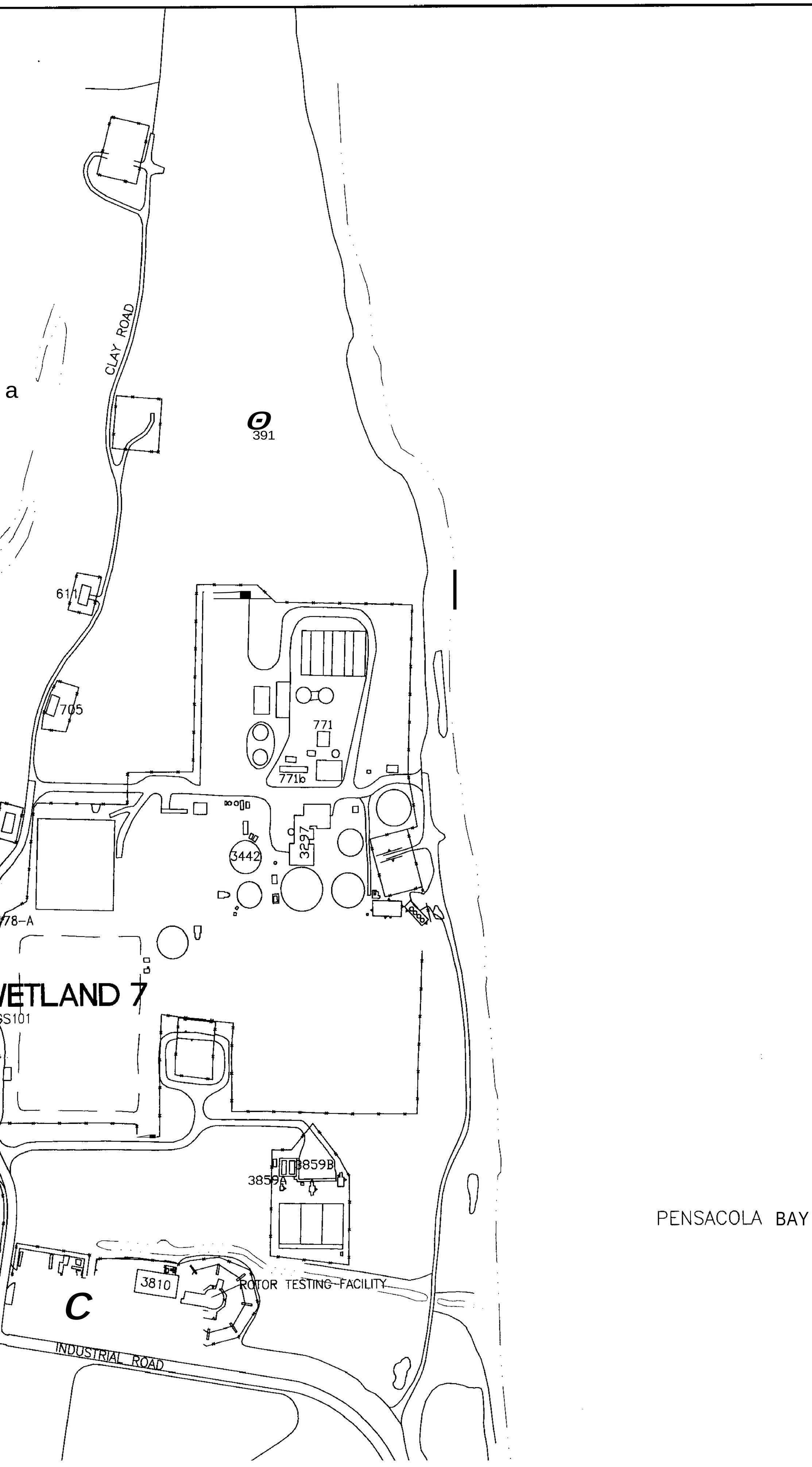
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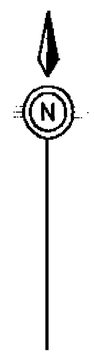

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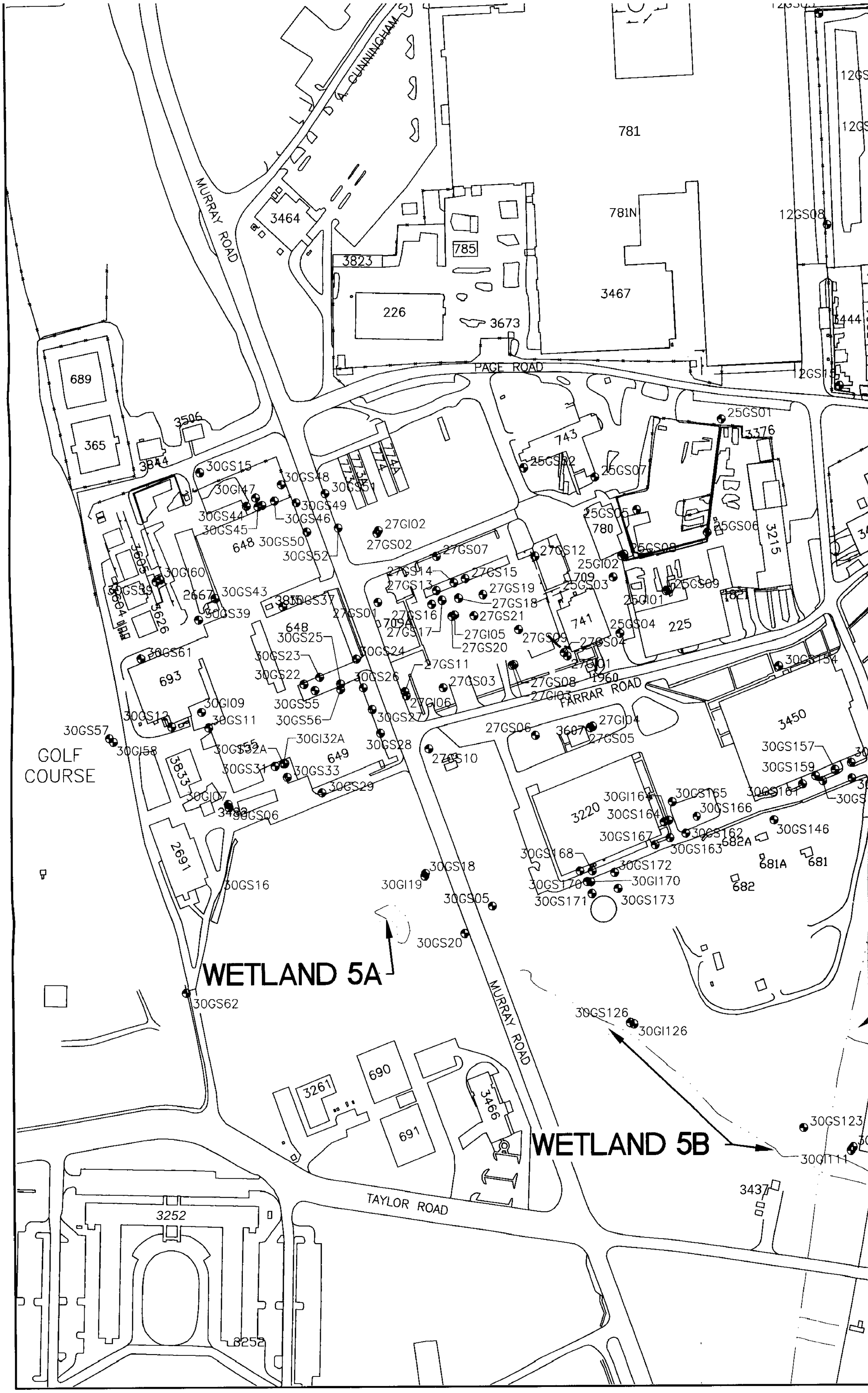
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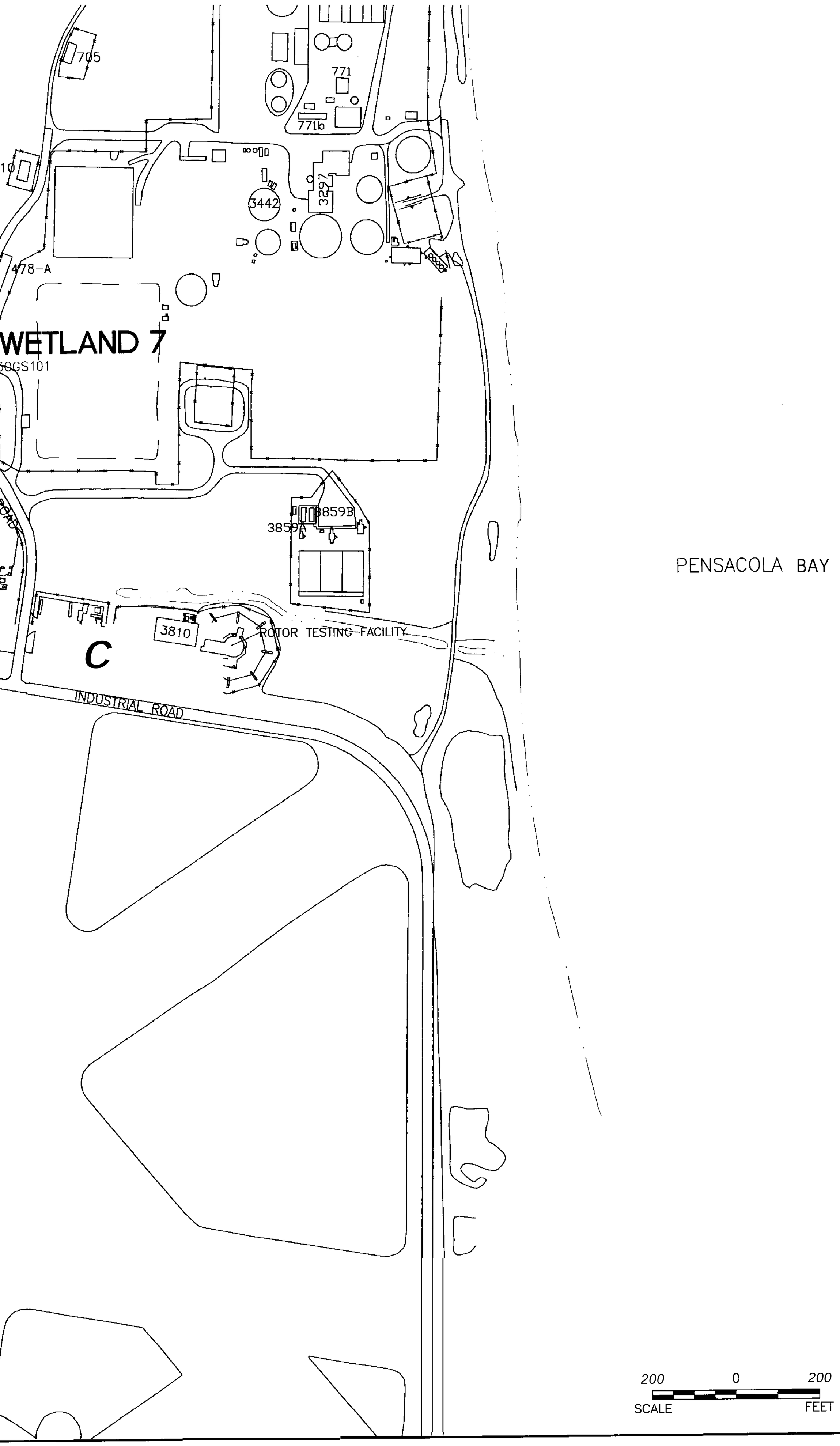
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FIGURE 2
GROUNDWATER MONITORING WELL AND
TRENCH SAMPLE LOCATIONS

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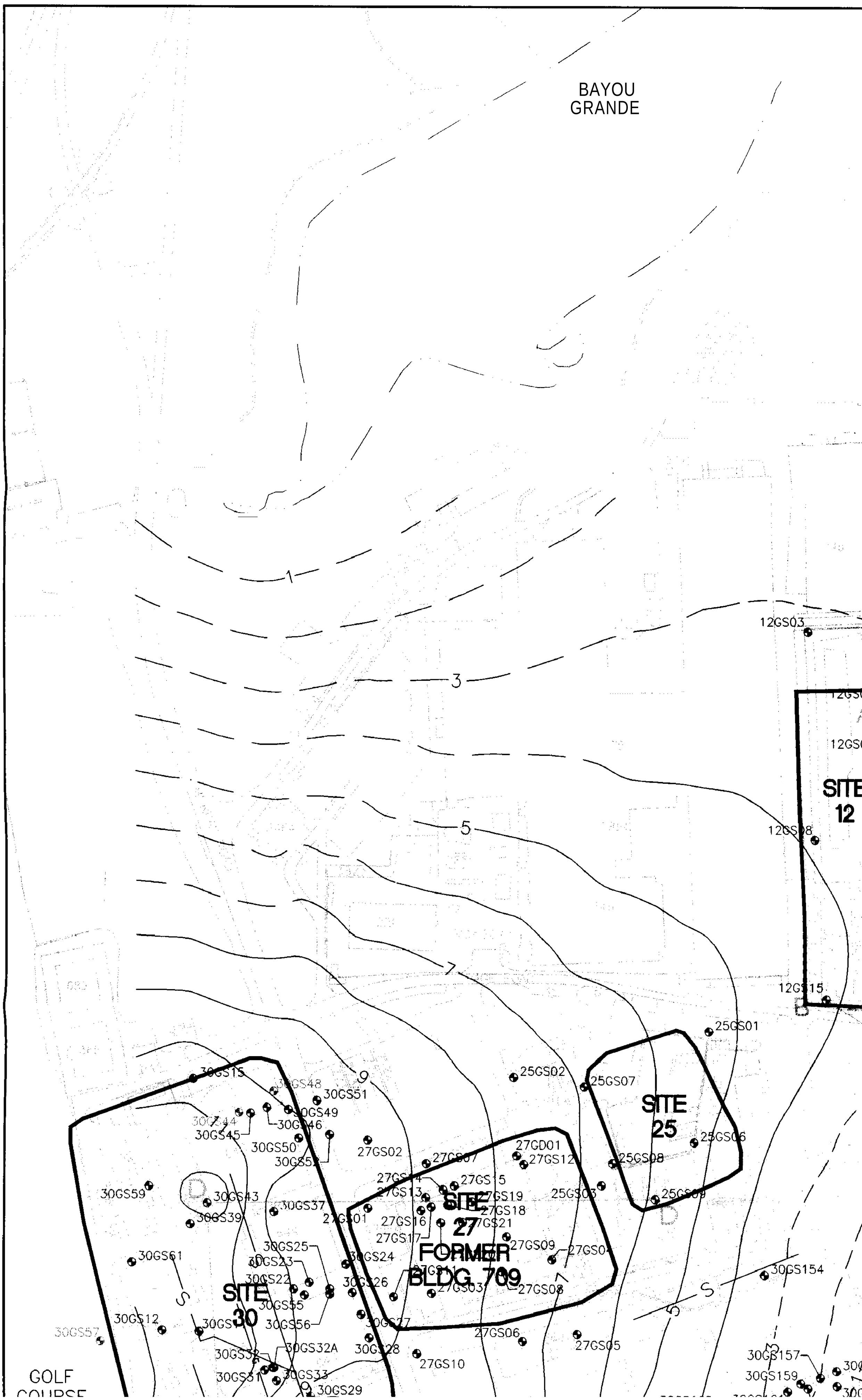
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27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS01
27GS16
27GS21
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27GS09
27GS04
27GS11
27GS03
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FORMER
BLDG 709
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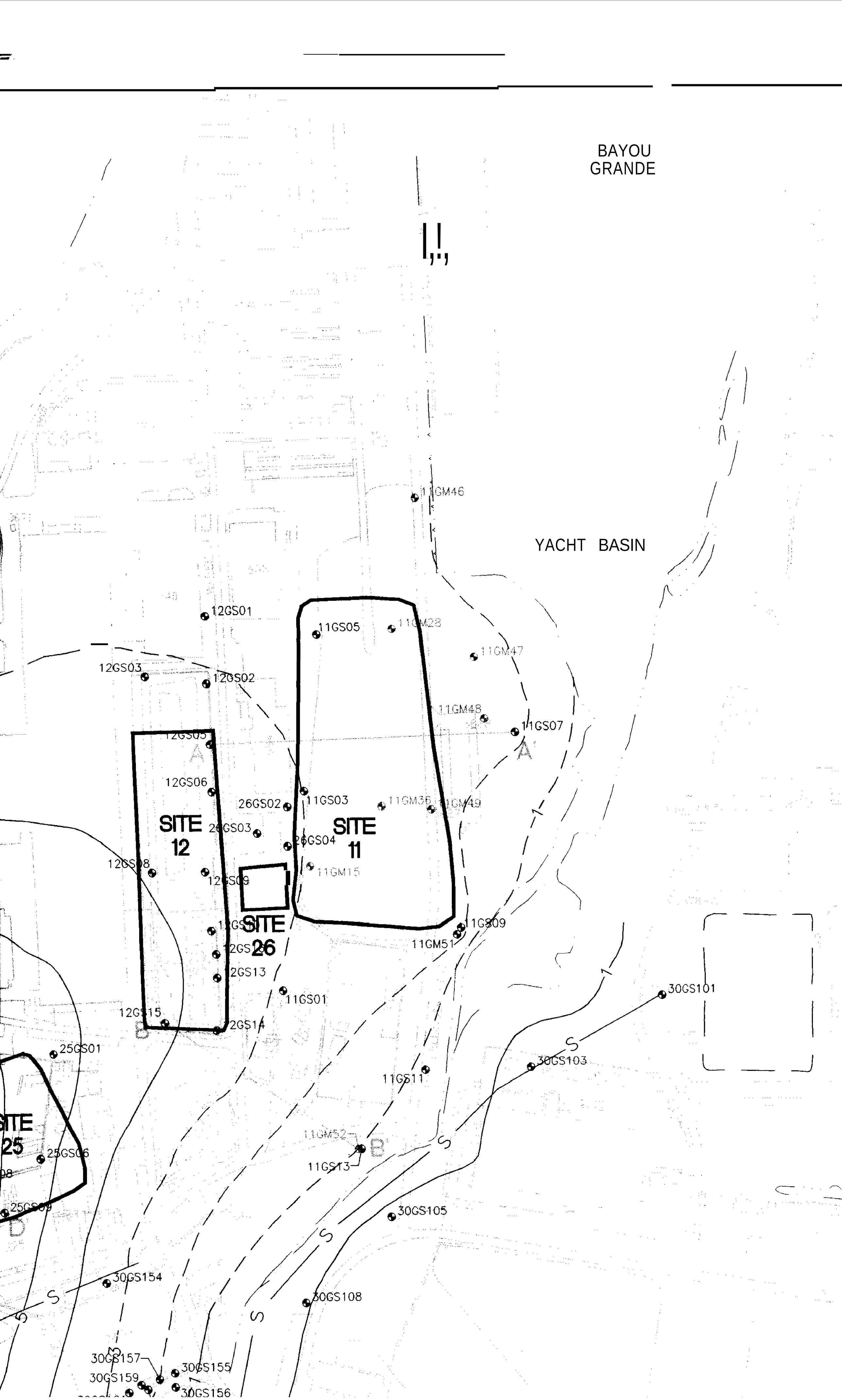
GOLF
COURSE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12GS06
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11GM49
SITE
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26GS03
26GS04
SITE
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11GM15
12GS08
12GS09
SITE
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11GS09
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12GS13
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12GS15
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SITE
25
25GS06
11GM52
11GS13
25GS09
30GS105
30GS154
30GS108
30GS157
30GS155
30GS159
30GS156

GROUNDWATER ELEVATION DATA FOR
SHALLOW GROUNDWATER MONITORING WELLS

Well ID	Northing	Easting	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation
11GS01	505776.7	1094687	9.89	7.12	2.77
11GS03	506281.0	1094747	11.21	8.22	2.99
11GS05	506678.6	1094783	10.34	6.30	4.04
11GS07	506427.8	1095313	6.28	3.86	2.42
11GS09	505933.7	1095164	5.0	2.89	2.12
11GS11	505571.8	1095066	6.28	5.55	0.73
11GS13	505372.3	1094893	5.48	4.06	1.42
12GS01	506729.3	1094483	17.81	14.24	3.57
12GS02	506554.9	1094487	18.23	14.81	3.42
12GS03	506573.1	1094323	18.23	14.91	3.32
12GS05	506400.6	1094497	1821	14.69	3.52
12GS06	506280.5	1094500	18.22	14.76	3.46
12GS08	506076.3	1094338	18.34	14.42	3.92
12GS09	506077.7	1094480	16.85	13.25	3.60
12GS10	505929.0	1094496	17.04	13.31	3.73
12GS13	505810.1	1094511	16.64	12.96	3.68
12GS14	505676.1	1094507	16.96	13.34	3.62
12GS15	505696.0	1094369	17.17	13.04	4.13
12GS16	505869.5	1094509	17.03	13.29	3.74
25GS01	505618.4	1094070	26.24	20.92	5.32
25GS02	505507.7	1093577	24.74	17.10	7.64
25GS03	505249.3	I093797	20.23	43.51	6.72
25GS07	305485.1	1093754	23.60	16.69	6.91
25GS08	505302.0	1093825	21.01	14.43	6.58
25GS09	505216.8	1093933	19.18	13.32	5.86
26GS02	506241.0	1094702	18.05	14.77	3.28
26GS03	506174.3	1094621	18.68	15.60	3.08
26GS04	506141.6	1094702	19.64	16.47	3.17
27GS01	505194.4	1093209	26.06	16.55	9.51
27GS02	505356.3	1093208	27.71	18.20	9.51
27GS03	504991.8	1093370	27.22	18.55	8.67
27GS04	505072.7	1093673	22.51	15.31	7.20
27GS05	504895.6	1093736	23.90	17.31	6.59
27GS06	504878.2	1093599	24.18	16.99	7.19
27GS08	505044.9	1093547	25.28	17.45	7.83
27GS09	505127.2	1093559	25.07	17.21	7.86
27GS10	504847.9	1093333	25.47	16.84	8.63
27GS11	504983.7	1093275	27.16	18.04	9.12
27GS12	505299.4	1093602	24.39	16.73	7.66
27GS14	505238.3	1093399	25.06	16.52	8.54
27GS15	505247.8	1093427	24.80	16.38	8.42
27GS16	505188.6	1093343	25.40	16.50	8.90
27GS17	505197.6	1093369	25.36	16.63	8.73
27GS18	505202.2	1093410	25.32	16.79	8.53
27GS19	505210.0	1093471	25.40	17.16	8.24
27GS20	505159.5	1093393	25.39	16.77	8.62
27GS21	503160.5	1093448	25.27	16.97	8.30

PENSACOLA BAY

GROUNDWATER ELEVATION DATA FOR
SHALLOW GROUNDWATER MONITORING WELLS

ID	Northing	Easting	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation
01	505776.7	1094687	9.89	7.12	2.77
03	506281.0	1094747	11.21	8.22	2.99
05	506678.6	1094783	10.34	6.30	4.04
07	506427.8	1095313	6.28	3.86	2.42
09	505933.7	1095164	5.01	2.89	2.12
11	505571.8	1095066	6.28	5.55	0.73
13	505372.3	1094893	5.48	4.06	1.42
01	506729.3	1094483	17.81	14.24	3.57
02	506554.9	1094487	18.23	14.81	3.42
03	506573.1	1094323	18.23	14.91	3.32
05	506400.6	1094497	18.21	14.69	3.52
'06	506280.5	1094500	18.22	14.76	3.46
'08	506076.3	1094338	18.34	14.42	3.92
09	506077.7	1094480	16.85	13.25	3.60
10	505929.0	1094496	17.04	13.31	3.73
13	505810.1	1094511	16.64	12.96	3.68
14	505676.1	1094507	16.96	13.34	3.62
15	505696.0	1094369	17.17	13.04	4.13
16	505869.5	1094509	17.03	13.29	3.74
01	505618.4	1094070	26.24	20.92	5.32
02	505507.7	1093577	24.74	17.10	7.64
03	505249.3	1093797	2023	13.51	6.72
07	505485.1	1093754	23.60	16.69	6.91
08	505302.0	1093825	21.01	14.43	6.58
09	505216.8	1093933	19.18	13.32	5.86
02	506241.0	1094702	18.05	14.77	3.28
03	506174.3	1094621	18.68	15.60	3.08
04	506141.6	1094702	19.64	16.47	3.17
01	505194.4	1093209	26.06	16.55	9.51
02	505356.3	1093208	27.71	18.20	9.51
03	504991.8	1093370	27.22	18.55	8.67
04	505072.7	1093673	22.51	15.31	7.20
05	504895.6	1093736	23.90	17.31	6.59
06	504878.2	1093599	24.18	16.99	7.19
08	505044.9	1093547	25.28	17.45	7.83
09	505127.2	1093559	25.07	17.21	7.86
10	504847.9	1093333	25.47	16.84	8.63
11	504983.7	1093275	27.16	18.04	9.12
12	505299.4	1093602	24.39	16.73	7.66
14	505238.3	1093399	25.06	16.52	8.54
15	505247.8	1093427	24.80	16.38	8.42
16	505188.6	1093343	25.40	16.50	8.90
17	505197.6	1093369	25.36	16.63	8.73
18	505202.2	1093410	25.32	16.79	8.53
19	505210.0	1093471	25.40	17.16	8.24
20	505159.5	1093393	25.39	16.77	8.62
21	505160.5	1093448	25.27	16.97	8.30

GROUNDWATER ELEVATION DATA FOR
SHALLOW GROUNDWATER MONITORING WELLS

Well ID	Northing	Easting	Top of Casing Elevation	Depth to Groundwater	Groundwater Elevation
30GS05	504475.9	1093488	20.32	13.96	6.36
30GS06	504711.9	1092835	26.57	15.42	11.15
30GS101	505758.9	1095699	8.28	6.14	2.14
30GS105	505199.5	1094971	7.04	5.35	1.69
30GS108	504983.7	1094741	7.83	6.74	1.09
30GS11	504900.5	1092785	27.96	16.49	11.47
30GS113	504380.8	1094483	9.20	7.95	1.25
30GS12	504903.6	1092692	29.05	17.18	11.87
30GS123	503948.8	1094259	8.87	6.84	2.03
30GS146	504675.3	1094194	25.42	22.48	2.94
30GS15	505502.9	1092768	31.50	20.83	10.67
30GS157	504793.0	1094348	30.77	18.18	12.59
30GS162	504644.6	1093970	24.93	20.66	4.27
30GS164	504672.0	1093916	24.40	19.78	4.62
30GS165	504718.8	1093937	24.29	19.74	4.55
30GS166	504685.0	1093998	25.29	21.35	4.14
30GS168	504557.6	1093737	23.66	17.88	5.78
30GS169	504557.6	1093706	24.53	17.95	6.58
30GS18	504554.0	1093322	16.65	8.40	8.25
30GS20	504409.1	1093419	18.88	12.24	6.64
30GS22	505001.8	1093023	28.83	18.46	10.37
30GS23	505017.8	1093062	26.16	17.02	9.14
30GS24	505060.5	1093154	26.37	16.72	9.65
30GS25	505002.2	3093114	26.94	17.14	9.80
30GS26	5049932	1093173	27.23	17.87	9.36
30GS27	504941.6	1093193	26.88	17.57	9.31
30GS28	504885.6	1093213	27.02	17.71	9.31
30GS31	504808.5	1092950	28.10	17.28	10.82
30GS32A	504815.1	1092974	27.92	17.31	10.61
30GS33	504782.8	1092980	27.49	17.22	10.27
30GS37	505185.5	1092972	26.41	17.03	9.38
30GS39	505155.6	1092762	30.05	18.84	11.21
30GS43	505206.2	1092804	32.36	19.35	13.01
30GS45	505420.6	1092913	28.17	17.81	10.36
30GS46	505434.4	1092954	27.93	17.79	10.14
30GS49	505429.4	1093008	27.56	17.62	9.94
30GS50	505360.5	1093034	27.76	7.58	10.18
30GS51	505451.1	1093080	26.34	16.62	9.72
30GS52	505369.5	1093112	26.37	16.59	9.78
30GS55	504987.4	1093050	26.42	17.12	9.30
30GS56	504989.6	1093114	26.39	17.41	8.98
30GS59	505246.3	1092658	26.88	15.36	11.52
30GS61	505065.0	1092616	27.81	15.78	12.03
30GS62	504271.8	1092725	22.37	11.70	11.17

PENSACOLA BAY

LEGEND

SITE 27 — SITE LOCATION

S — SITE 36

SURFACE WATER BODY

CLOSED LAGOON

BUILDING

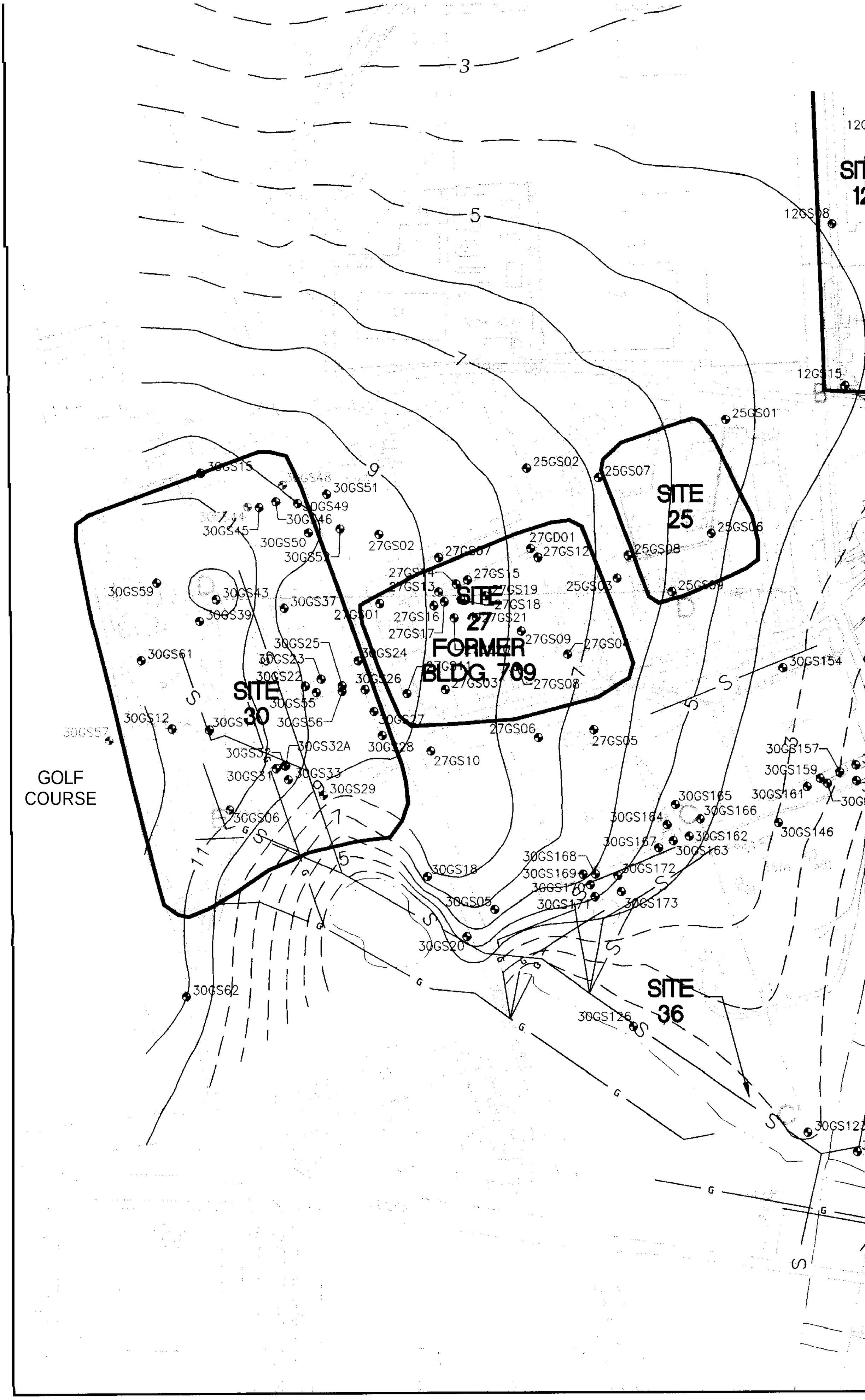
FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

EQUIPOTENTIAL LINE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SITE 30
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27GS02
27GD01
27GS12
27GS15
27GS19
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27GS21
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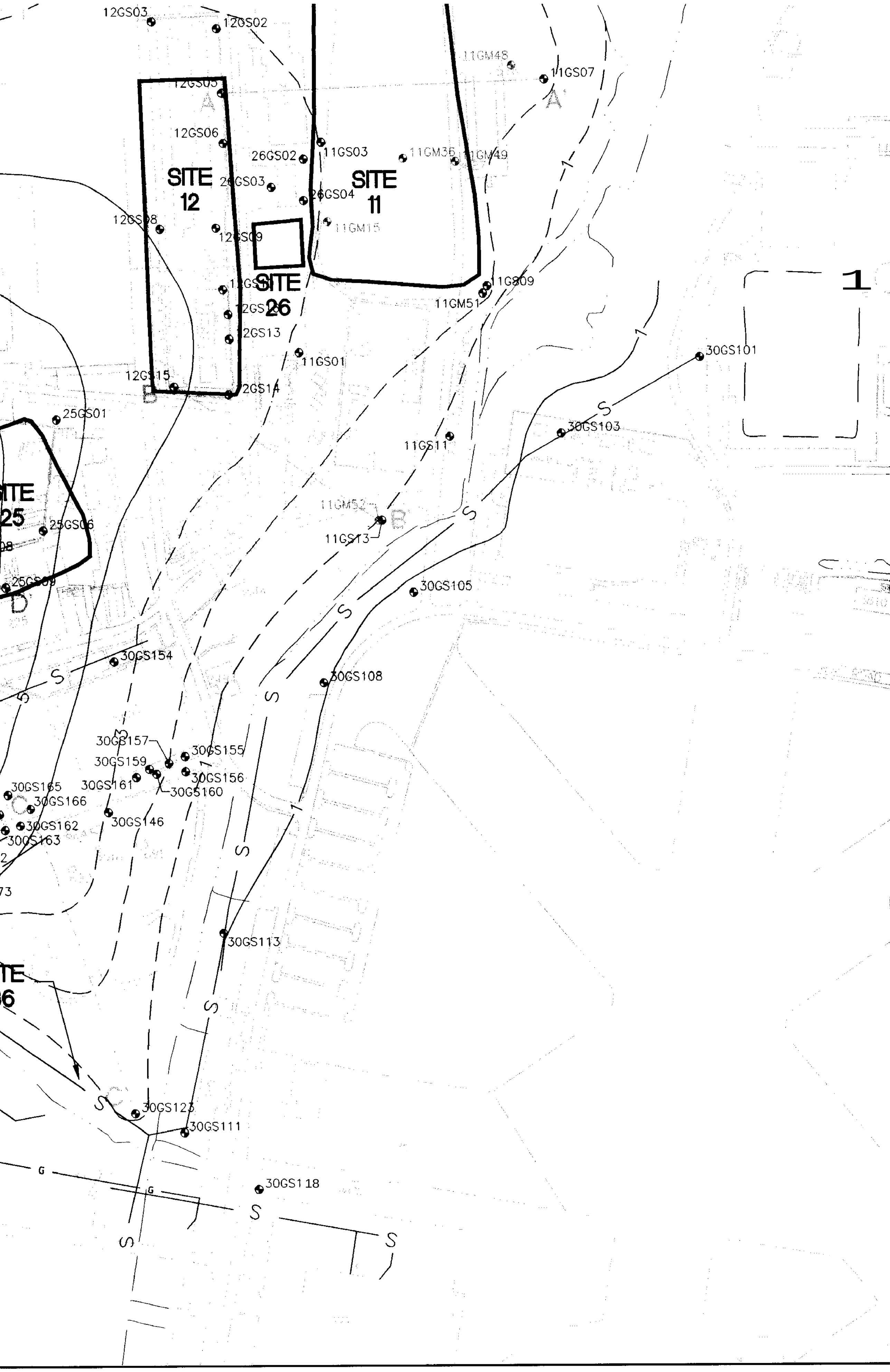
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26GS04
SITE 11
12GS08
12GS09
11GM15
SITE 26
11GS09
11GM51
12GS13
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12GS15
12GS14
B
25GS01
30GS103
11GS11
SITE 25
25GS06
11GM52
B'
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30GS162
30GS163
30GS113
SITE 26
30GS123
30GS111
G
G'
30GS118
S
1
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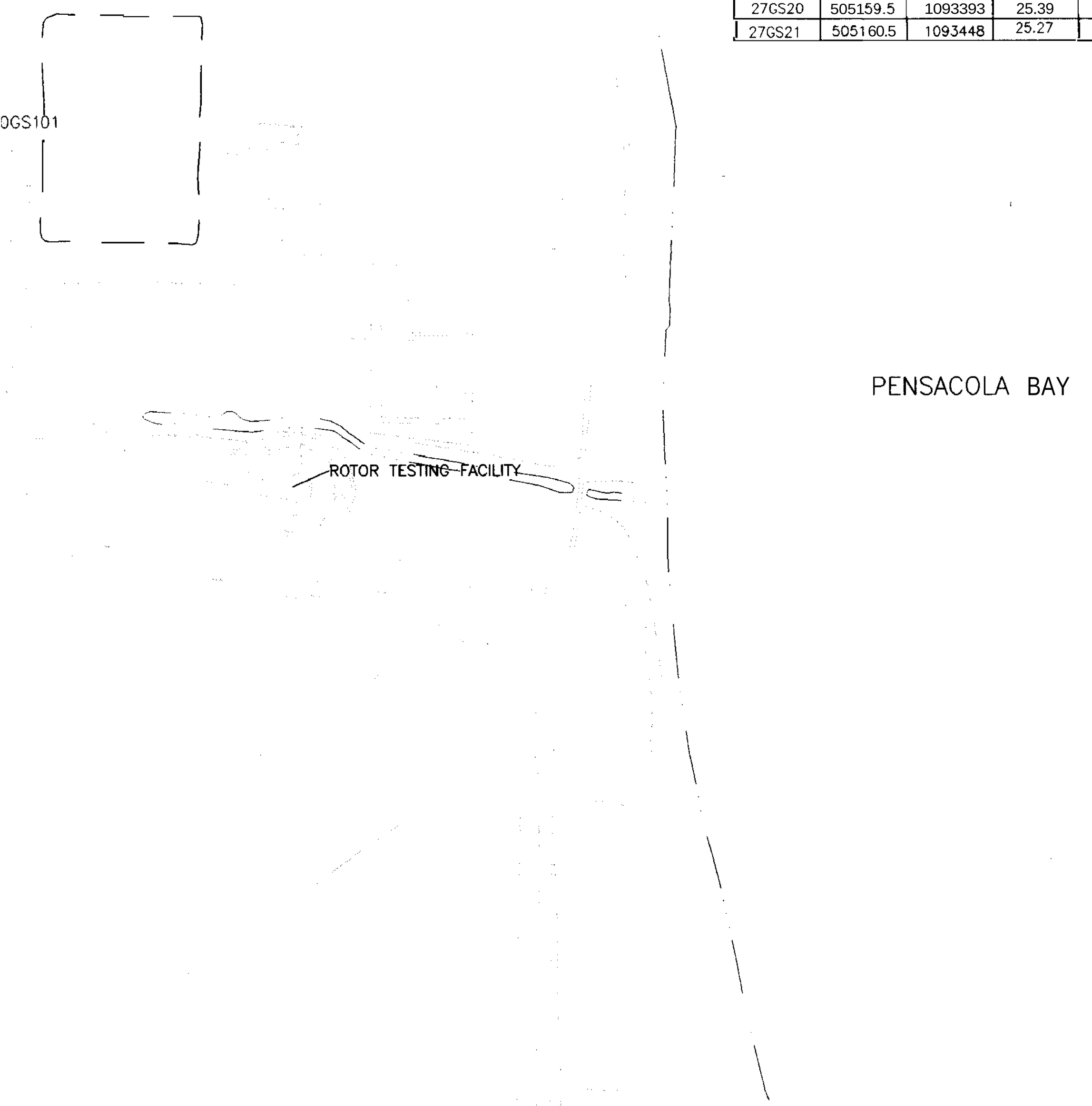
6

27GS02	505356.5	1093208	27.71	18.20	9.51
27GS03	504993.8	1093370	27.22	18.55	8.67
27GS04	505072.7	1093673	22.51	15.31	7.20
27GS05	504895.6	1093736	23.90	17.31	**6.59**
27GS06	504878.2	**1093599**	24.18	16.99	7.19
27GS08	505044.9	1093547	25.28	17.45	7.83
27GS09	505127.2	1093559	25.07	17.21	7.86
27GS10	504847.9	**1093333**	25.47	16.84	8.63
27GS11	504983.7	1093275	27.16	18.04	9.12
27GS12	505299.4	1093602	24.39	16.73	7.66
27GS14	505238.3	1093399	25.06	16.52	8.54
27GS15	505247.8	1093427	24.80	16.38	8.42
27GS16	505188.6	**1093343**	25.40	16.50	8.90
27GS17	505197.6	**1093369**	25.36	16.63	8.73
27GS18	505202.2	1093410	25.32	16.79	8.53
27GS19	505210.0	1093471	25.40	17.16	8.24
27GS20	505159.5	1093393	25.39	16.77	8.62
27GS21	505160.5	1093448	25.27	16.97	8.30



1. O
E
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3. G
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F

27GS02	505356.3	1093208	27.71	18.20	9.51
27GS03	504991.8	1093370	27.22	18.55	8.67
27GS04	505072.7	1093673	22.51	15.31	7.20
27GS05	504895.6	1093736	23.90	[illegible]	6.59
27GS06	504878.2	1093599	24.18	16.99	7.19
27GS08	505044.9	1093547	25.28	17.45	7.83
27GS09	505127.2	1093559	25.07	17.21	7.86
27GS10	504847.9	1093333	25.47	16.84	8.63
27GS11	504983.7	1093275	27.16	18.04	9.12
27GS12	505299.4	1093602	24.39	16.73	7.66
27GS14	505238.3	1093399	25.06	16.52	8.54
27GS15	505247.8	1093427	24.80	16.38	8.42
27GS16	505188.6	1093343	25.40	16.50	8.90
27GS17	505197.6	1093369	25.36	16.63	8.73
27GS18	505202.2	1093410	25.32	16.79	8.53
27GS19	505210.0	1093471	25.40	17.16	8.24
27GS20	505159.5	1093393	25.39	16.77	8.62
27GS21	505160.5	1093448	25.27	16.97	8.30

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30GS33	504782.8	1092980	27.49	17.22	10.27
30GS37	505185.5	1092972	26.41	17.03	9.38
30GS39	505155.6	1092762	30.05	18.84	11.21
30GS43	505206.2	1092804	32.36	19.35	13.01
30GS45	505420.6	1092913	28.17	17.81	10.36
30GS46	505434.4	1092954	27.93	17.79	10.14
30GS49	505429.4	1093008	27.56	17.62	9.94
30GS50	505360.5	1093034	27.76	17.58	10.18
30GS51	505451.1	1093080	26.34	16.62	9.72
30GS52	505369.5	1093112	26.37	16.59	9.78
30GS55	504987.4	1093050	26.42	17.12	9.30
30GS56	504989.6	1093114	26.39	17.41	8.98
30GS59	505246.3	1092658	26.88	15.36	11.52
30GS61	505065.0	1092616	27.81	15.78	12.03
30GS62	504271.8	1092725	22.87	11.70	11.17

PENSACOLA BAY

LEGEND

SITE 27 — SITE LOCATION

S — SITE 36

SURFACE WATER BODY

CLOSED LAGOON

BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

1 — EQUIPOTENTIAL LINE

1 — ESTIMATED EQUIPOTENTIAL LINE

HORIZONTAL GRADIENT LINE

NOTES

1. ONLY GROUNDWATER ELEVATIONAL DATA FROM SHALLOW GROUNDWATER MONITORING WELLS WERE USED TO DEVELOP EQUIPOTENTIAL LINES.
2. ONE FOOT CONTOUR INTERVAL
3. GROUNDWATER ELEVATION DATA AND CORRESPONDING WELLS SHOWN ON THE FIGURE (IN GREEN) WERE USED TO DEVELOP EQUIPOTENTIAL LINES. DUE TO AQUIFER HETEROGENEITIES, GROUNDWATER ELEVATIONAL DATA FROM WELLS SCREENED BACK ON THE FIGURE WERE NOT USED TO DEVELOP EQUIPOTENTIAL LINES.
4. EQUIPOTENTIAL LINES SHOWN PROVIDE A GENERALIZED GROUNDWATER FLOW MAP BASED ON THE SELECTED DATA SET.

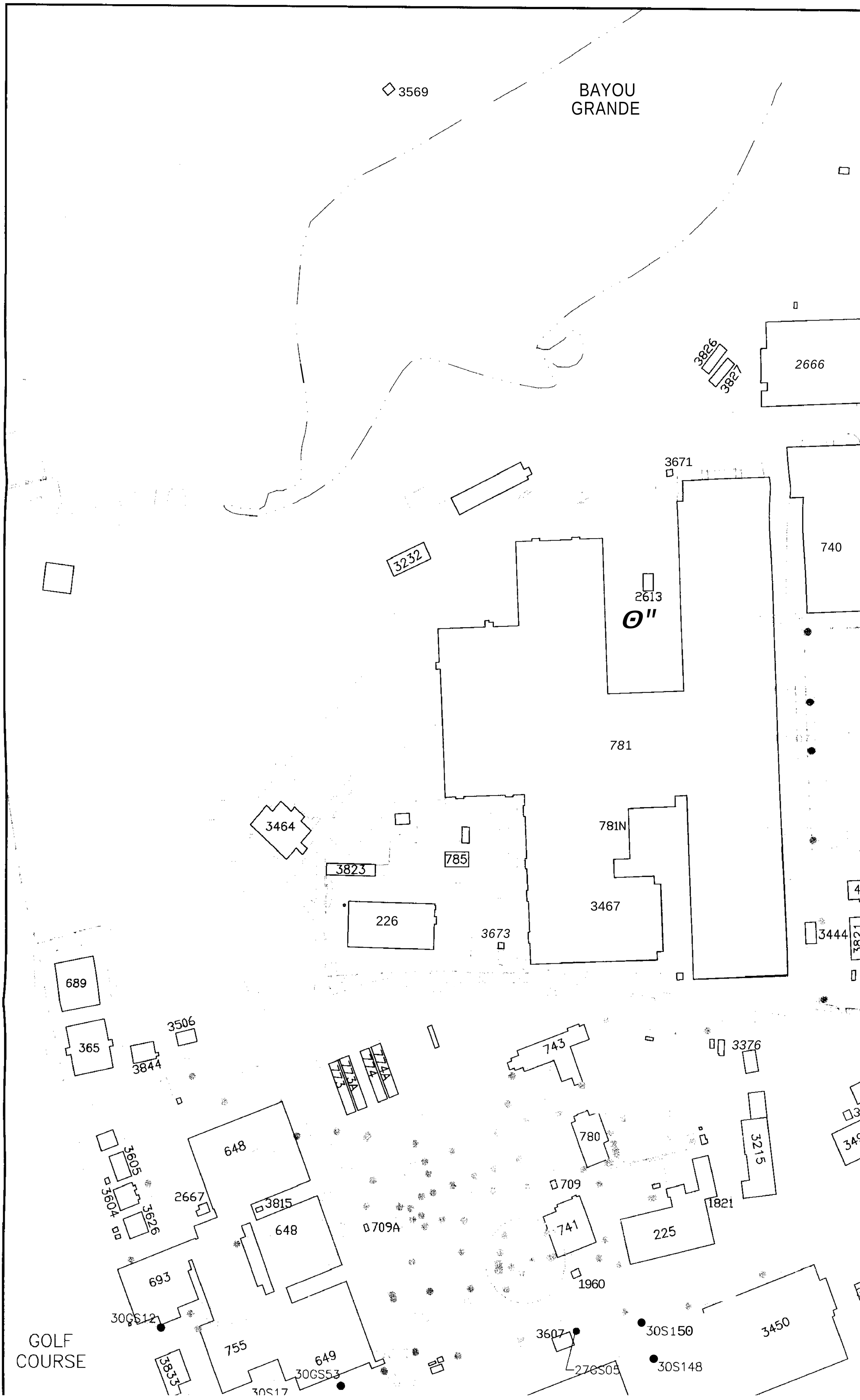
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 3
GENERALIZED POTENTIOMETRIC MAP: APRIL 2, 1996

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 10/09/97	DWG Name: 590U2GPM	Of 1

SECTIONS TO FOLLOW ON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781N
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3673
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365
3506
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3376
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774
774A
780
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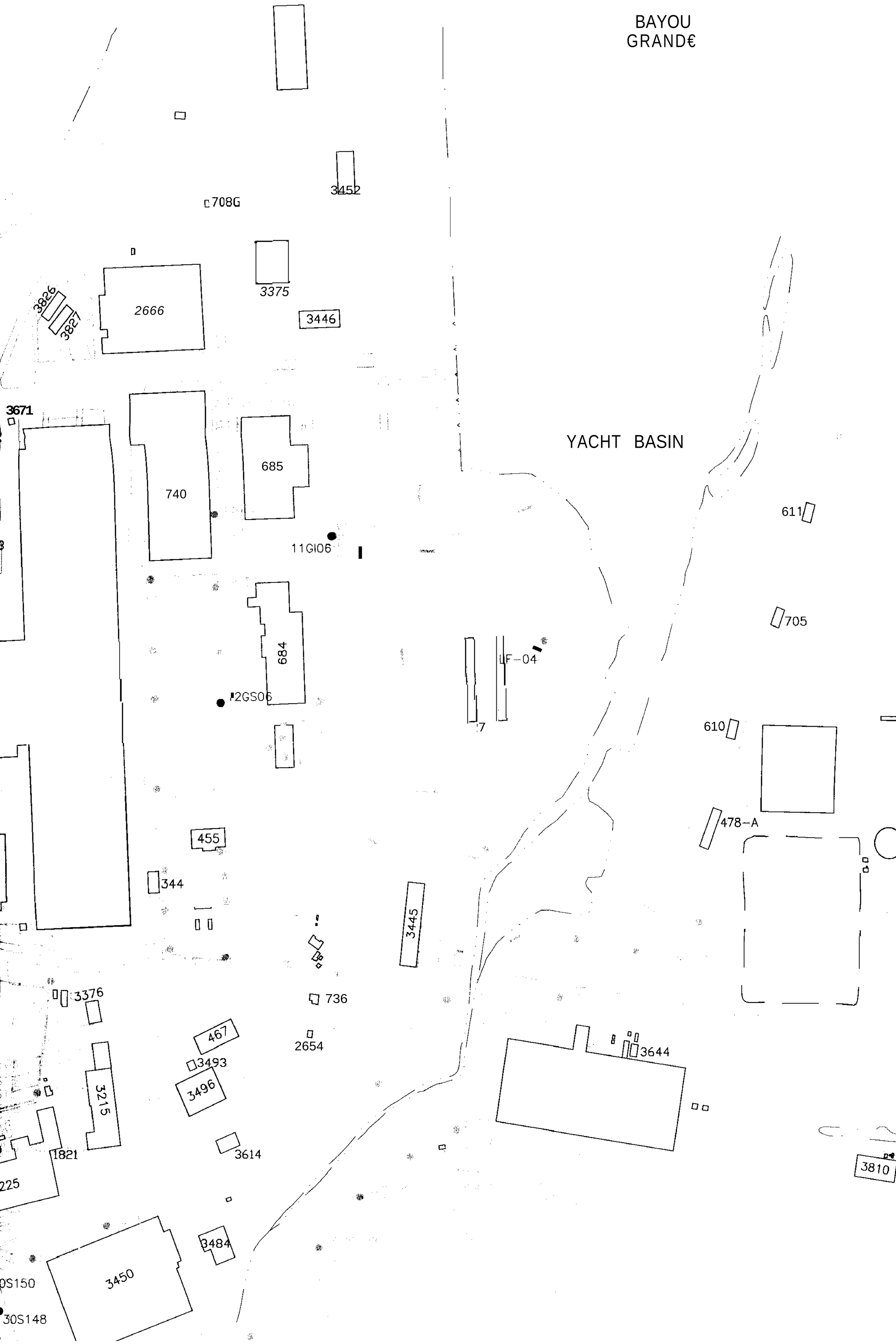
GOLF
COURSE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12GS06
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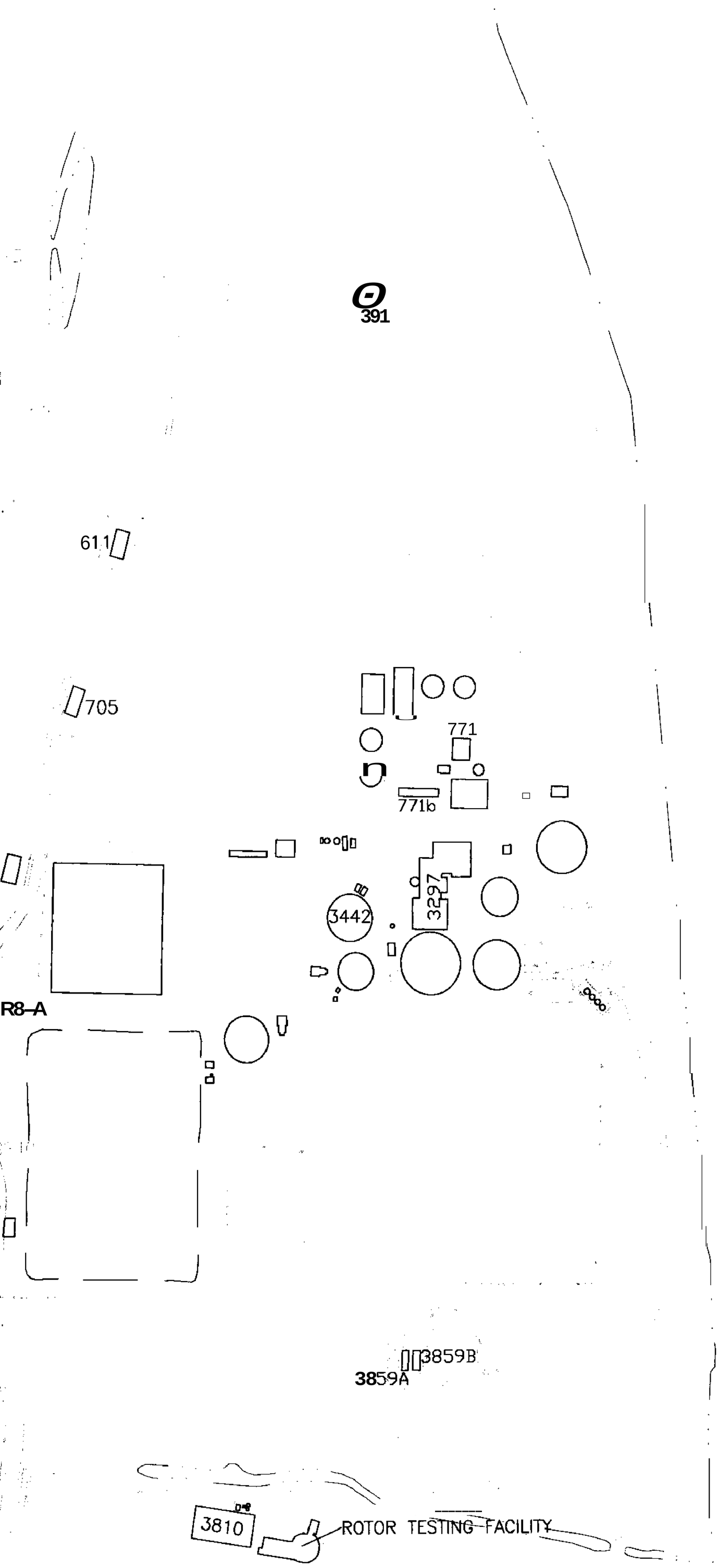


SUBSURFACE SOIL VOLATIL

SITE	Location ID	Boring ID	DEPTH FT-BGS	Acetone	Chloroform
PRG (µg/kg)				1400 (1)	20 (1)
	LF-04	11-S-LF04-05	5		
	11GI06	11-S-I006-06	6		
	12GS06	12-S-006-15	15		
27					
	27GS05	27-S-0005-02	2		23
30					
	30GS12	30-S-0012-14	14	5600 JD	
	30GS12	30-S-0012-16	16	3000 JD	
	30S17	30-S-0017-06	6		
	30S17	30-S-0017-18	18		
	30GS53	30-S-0053-02	2		
	30GS53	30-S-0053-04	4		
	30GS53	30-S-0053-10	10		
	30S114	30-S-0114-05	5		
	30S114	30-S-0114-07	7		
	30S124	30-S-0124-03	3		
	30S125	30-S-125-03	3		
	30S125	30-S-0125-05	5		
	305127	30-S-0127-03	3		
	305127	30-S-0127-05	5		
	30S137	30-S-0137-06	6		
	30S138	30-S-0138-06	6		
	30S142	30-S-0142-06	6		
	305144	30-S-0144-06	6		
	30S148	30-S-0148-06	6		
	30S150	30-S-0150-16	16		

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL

PENSACOLA BAY

743

1,1-D
1,2-D
PCE

SUBSURFACE SOIL VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES

SITE	Location ID	Boring ID	DEPTH FT-BGS	Acetone	Chloroform	Chloro-methane	1,2-DCA	Methylene Chloride	TCE	1,1,2,2-TCA	Vinyl Chloride
PRG (µg/kg)				1400 (1)	20 (1)	6.6 (2)	8 (1)	10 (1)	10 (1)	0.7 (1)	5 (1)
11											
	LF-04	11-S-LF04-05	5								79
	11GI06	11-S-I006-06	6						270 DJ		
12											
	12GS06	12-S-006-15	15							1J	
27											
	27GS05	27-S-0005-02	2		23						
30											
	30GS12	30-S-0012-14	14	5600 JD							
	30GS12	30-S-0012-16	16	3000 JD							
	30S17	30-S-0017-06	6					11			
	30S17	30-S-0017-18	18					31			
	30GS53	30-S-0053-02	2					31			
	30GS53	30-S-0053-04	4					25			
	30GS53	30-S-0053-10	10					22			
	30S114	30-S-0114-05	5			10 J					
	30S114	30-S-0114-07	7			10 J					
	30S124	30-S-0124-03	3				10 J				
	30S125	30-S-125-03	3				8 J				
	30S125	30-S-0125-05	5				11				
	30S127	30-S-0127-03	3				25				
	30S127	30-S-0127-05	5				10 J				
	30S137	30-S-0137-06	6				11				
	30S138	30-S-0138-06	6				13				
	305142	30-S-0142-06	6				8 J				
	30S144	30-S-0144-06	6				27				
	30S148	30-S-0148-06	6				20				
	30S150	30-S-0150-16	16				10 J				

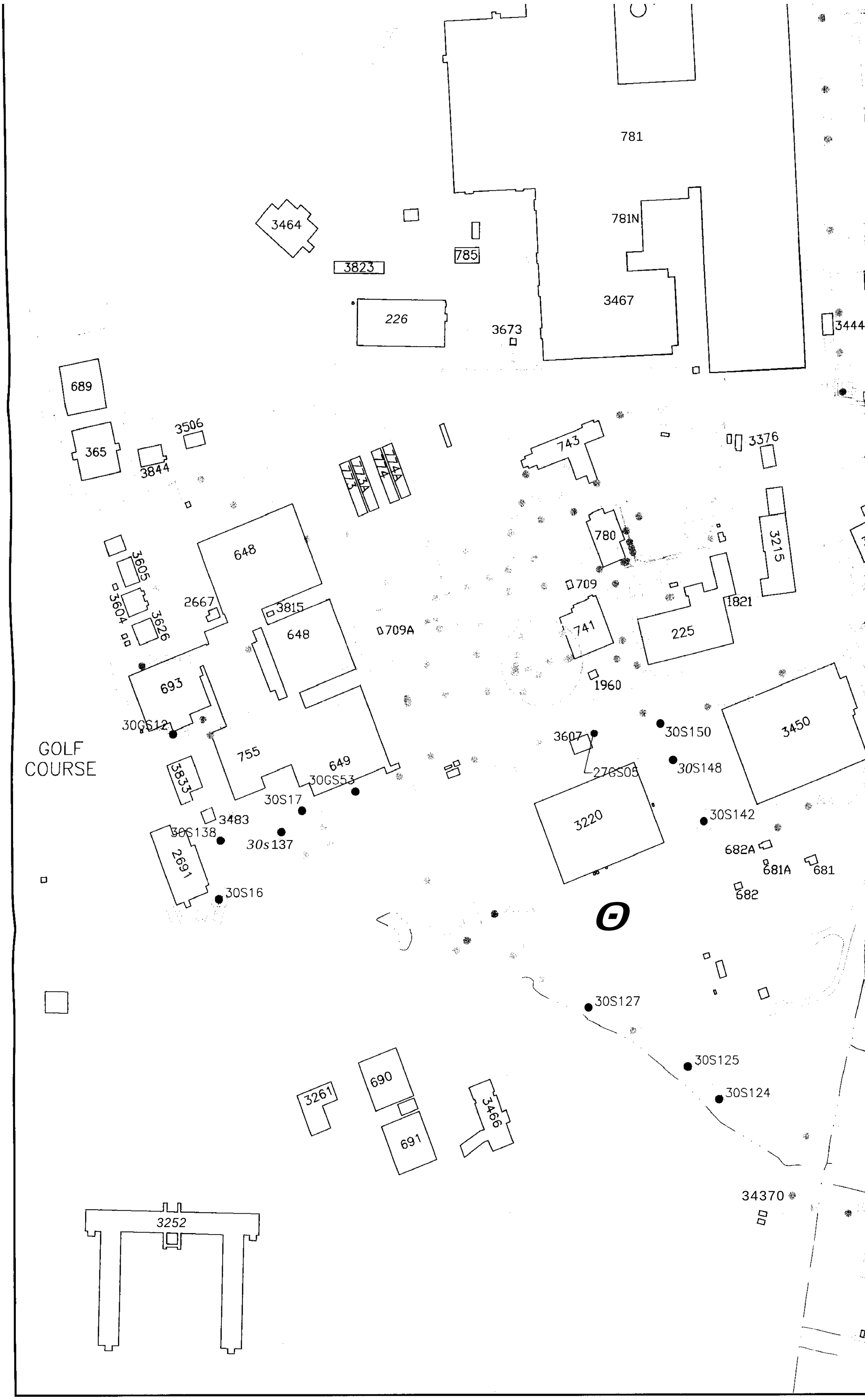
PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL

ACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL VOCs EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL VOCs EXCEEDANCES)

1,1-DCE 1,1-DICHLOROETHENE
1,2-DCA 1,2-DICHLOROETHANE
PCE TETRACHLOROETHENE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785
3823
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226
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689
3506
365
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743
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773A
774A
773
774
780
3215
648
3605
709
3604
2667
3815
1821
3626
741
709A
648
225
693
1960
30GS12
3450
3607
30S150
755
649
30S148
3833
30GS53
276S05
30S17
3220
30S142
3483
30S138
30s137
682A
2691
681A
681
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682
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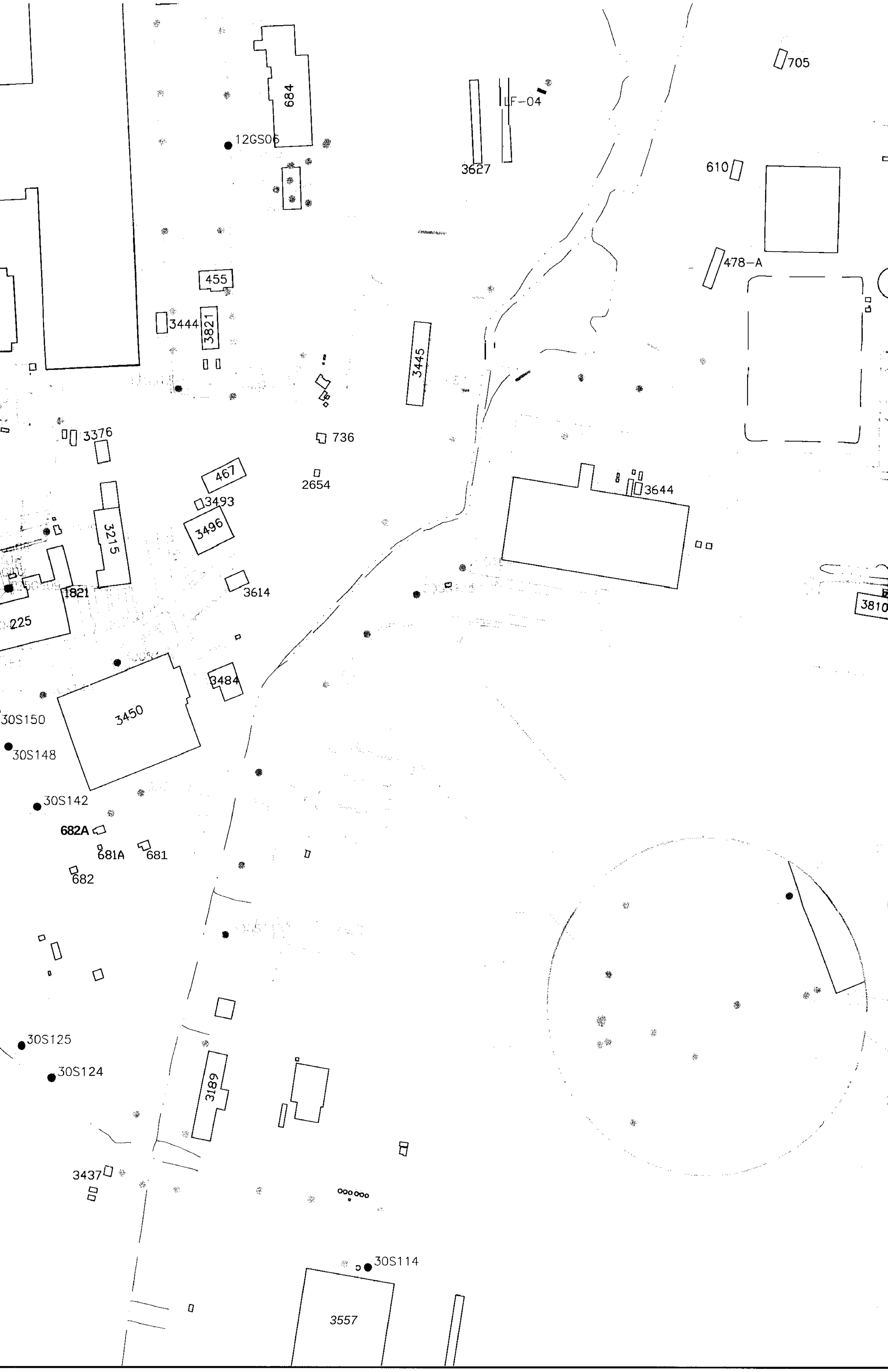
690
3261
30S124
3466
691
34370
3252

GOLF COURSE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LF-04
3627
705
610
478-A
455
3444
3821
3445
3376
736
467
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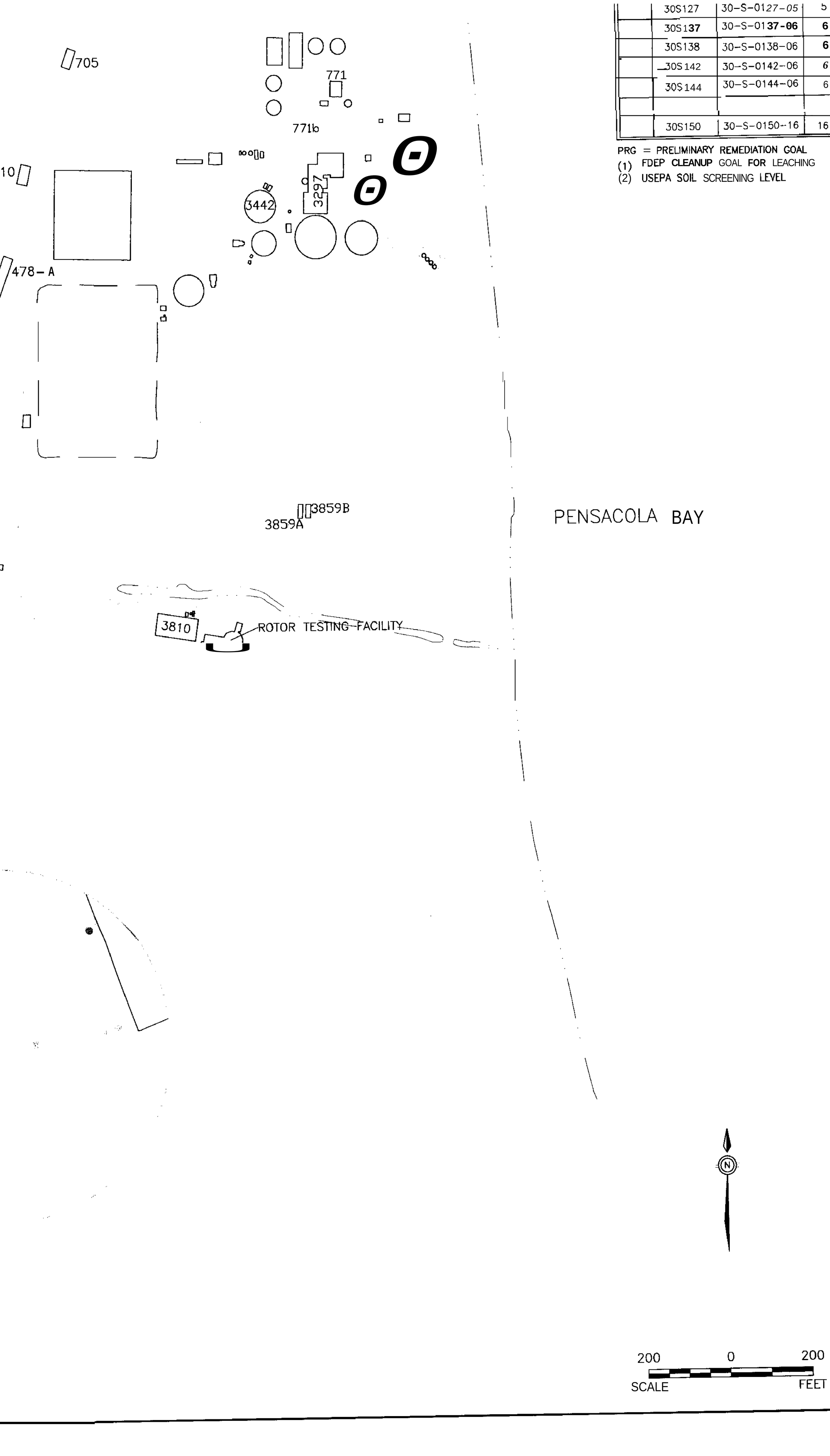
3493
3496
3644
3215
1821
3614
225
3810
3484
30S150
3450
30S148
30S142
682A
681A
681
682
30S125
30S124
3189
3437
30S114
3557

	30S127	30-S-0127-05	5		
	30S137	30-S-0137-06	6		
	30S138	30-S-0138-06	6		
	30S142	30-S-0142-06	6		
	30S144	30-S-0144-06	6		
	30S150	30-S-0150-16	16		

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL



743

1. HIGHLIGHT
ONE OR M
GRAY SOIL
VOLATILE
2. J VALUE
3. D VALUE
4. ALL CONC
5. ALL DEPT

1,1
1,2
PC
TC
1,1

	30S127	30-S-0127-05	5				10 J				
	30S137	30-S-0137-06	6				11				
	30S138	30-S-0138-06	6				13				
	30S142	30-S-0142-06	6				8 J				
	30S144	30-S-0144-06	6				27				
	30S148	30-S-0148-06	6				20				
	30S150	30-S-0150-16	16				10 J				

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL

NSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL VOCs EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL VOCs EXCEEDANCES)

1,1-DCE 1,1-DICHLOROETHENE
1,2-DCA 1,2-DICHLOROETHANE
PCE TETRACHLOROETHENE
TCE TRICHLOROETHENE
1,1,2,2-TCA 1,1,2,2-TRICHLOROETHANE

APPROXIMATE AREA OF SUBSURFACE SOIL CHLORINATED AND ASSOCIATED VOLATILE ORGANIC COMPOUND CONCENTRATIONS EXCEEDING THE FDEP CLEANUP GOAL FOR LEACHING, USEPA SOIL SCREENING LEVELS, AND/OR FDEP CLEANUP GOALS.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE SUBSURFACE SOIL VOLATILE ORGANIC COMPOUND EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY SUBSURFACE SOIL VOLATILE ORGANIC COMPOUND EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS IN $\mu g/kg$.
5. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

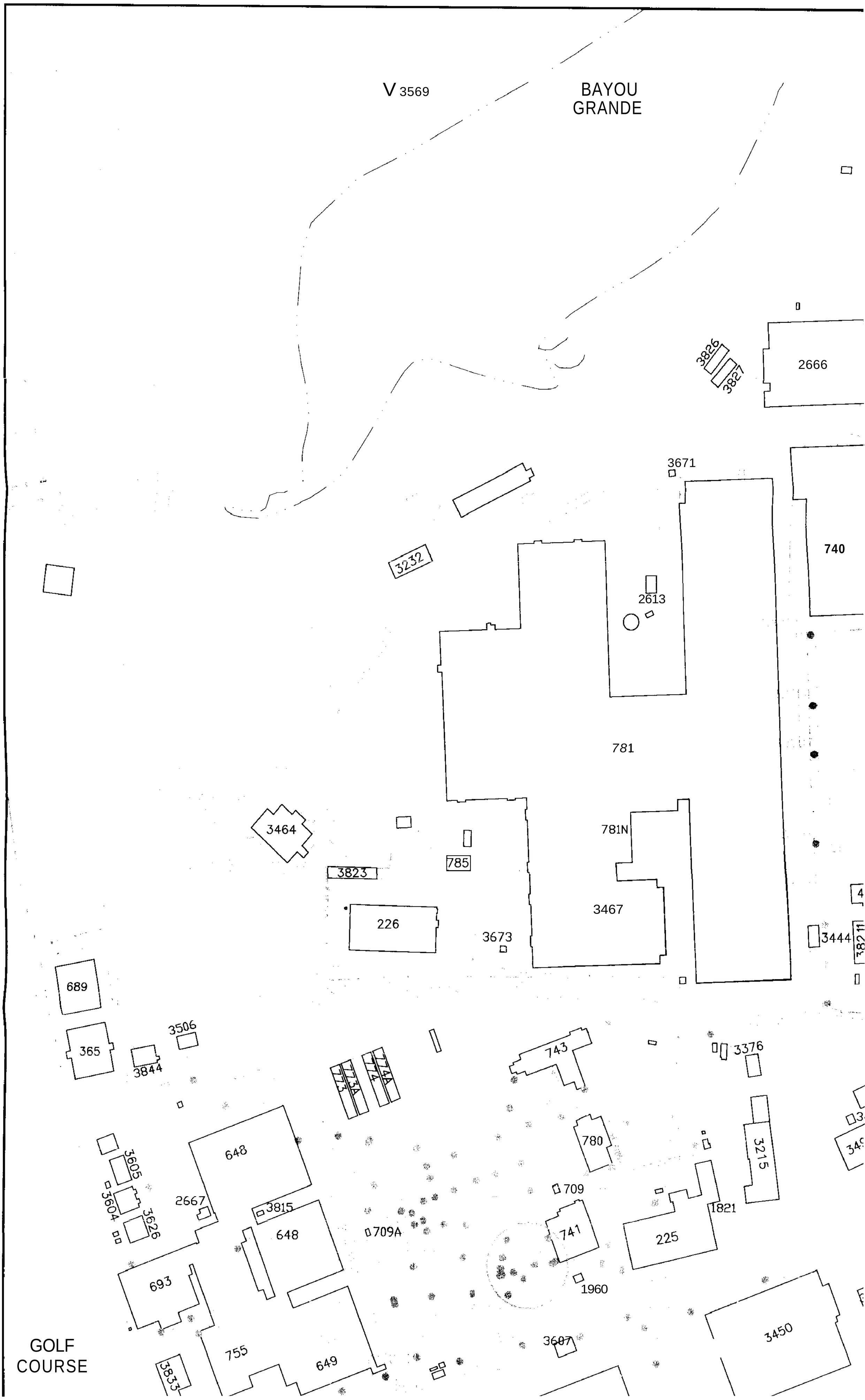
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 4
SUBSURFACE SOIL VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES - CHLORINATED AND ASSOCIATED VOCs

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/07/97	DWG Name: 590U2F73	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


V 3569
BAYOU GRANDE
3826
3827
2666
3671
740
3232
2613
781
781N
3464
785
3823
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3673
3444
689
365
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3604
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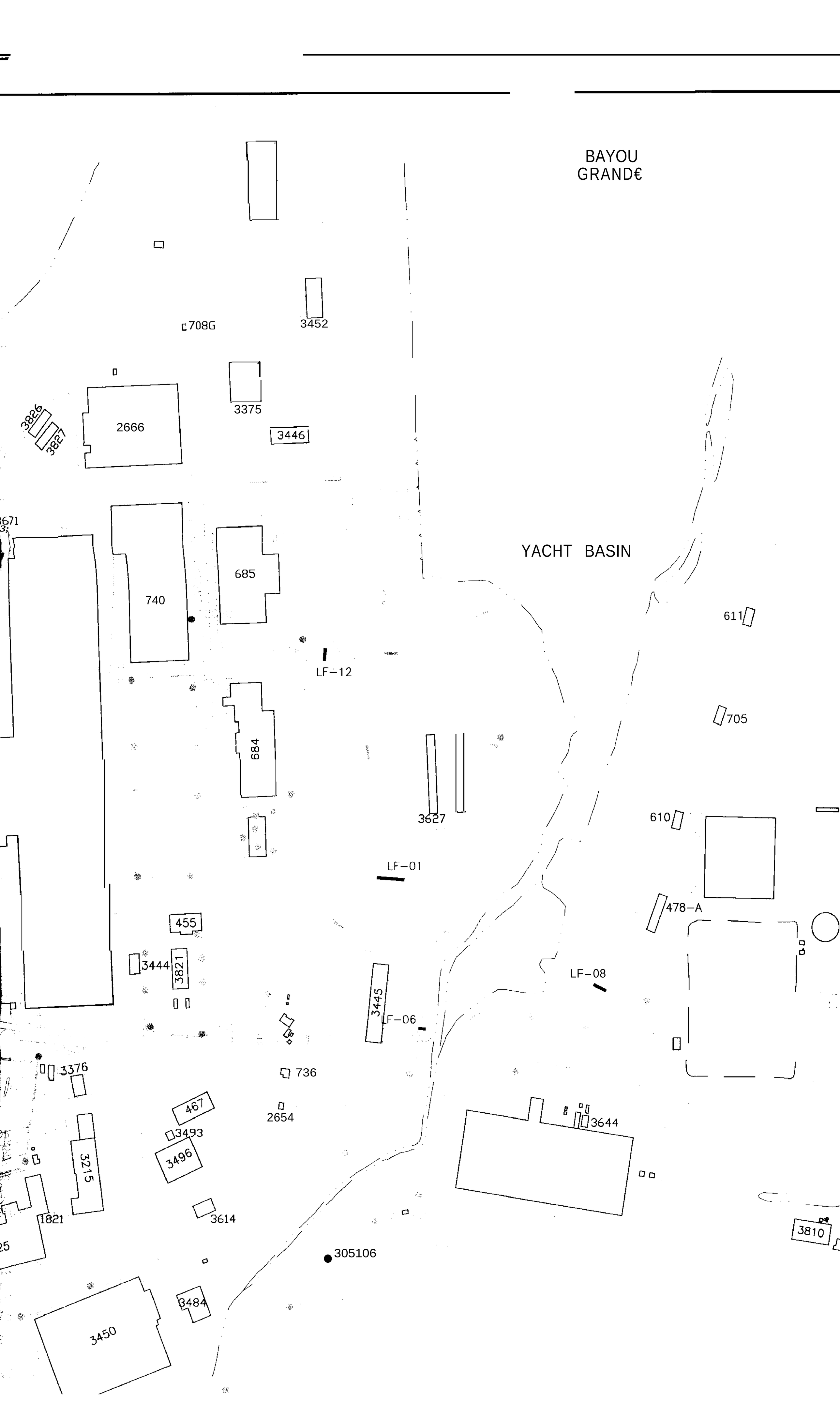
GOLF COURSE


BAYOU
GRAND€
YACHT BASIN
708G
3452
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2666
3446
3671
740
685
611
LF-12
705
684
3627
610
LF-01
478-A
455
3444
3821
LF-08
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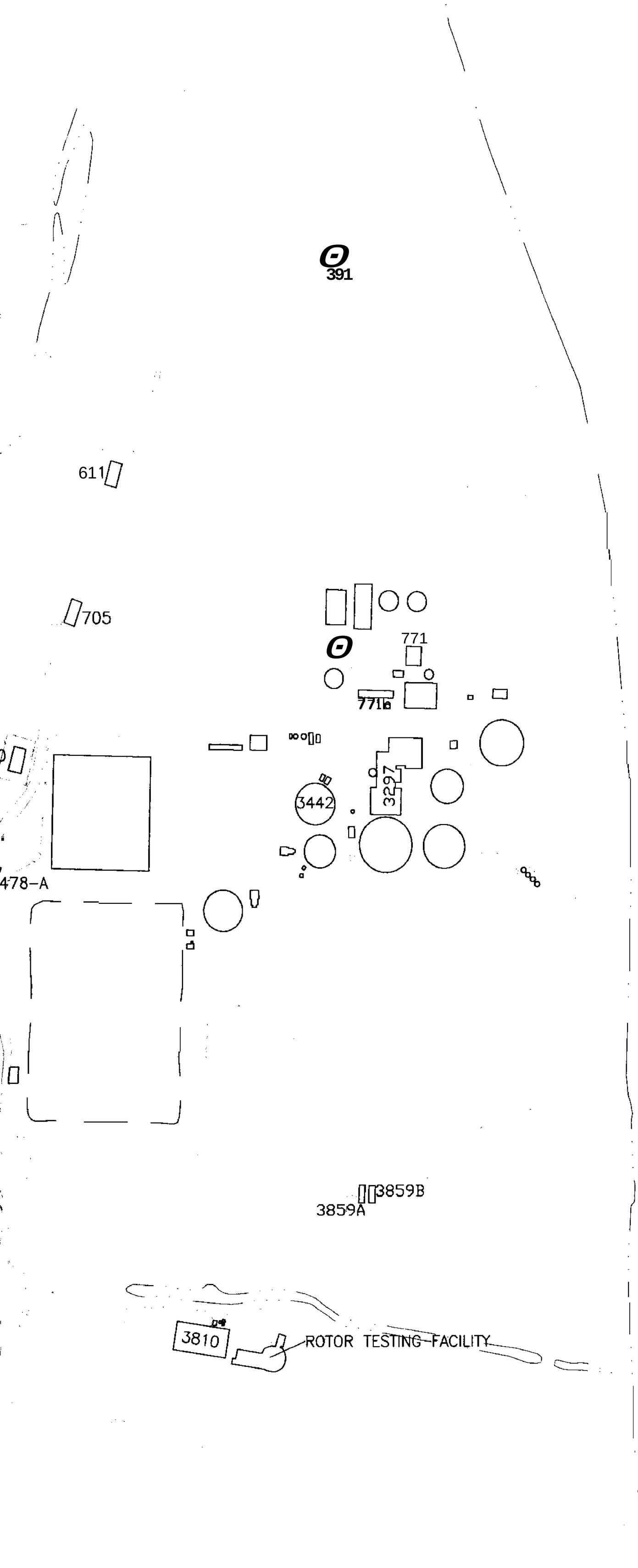
3614
3810
305106
3484
3450



SUBSURFA		
SITE	Location ID	Borin ID
PRG (µg/kg)		
11		
	LF-01	11-S-LF
	LF-06	11-S-LF
	LF-08	11-S-LF
	LF-12	11-S-LF
30		
	30S16	**30-S-00**
	30S106	30-5-01
	305106	30-S-01
	305120	30-S-01
	305144	30-S-01

PRG = PRELIMINARY REMEDIATI
(1) FDEP CLEANUP GOAL FOR

LI

743

BETX

SUBSURFACE SOIL BETX EXCEEDANCES

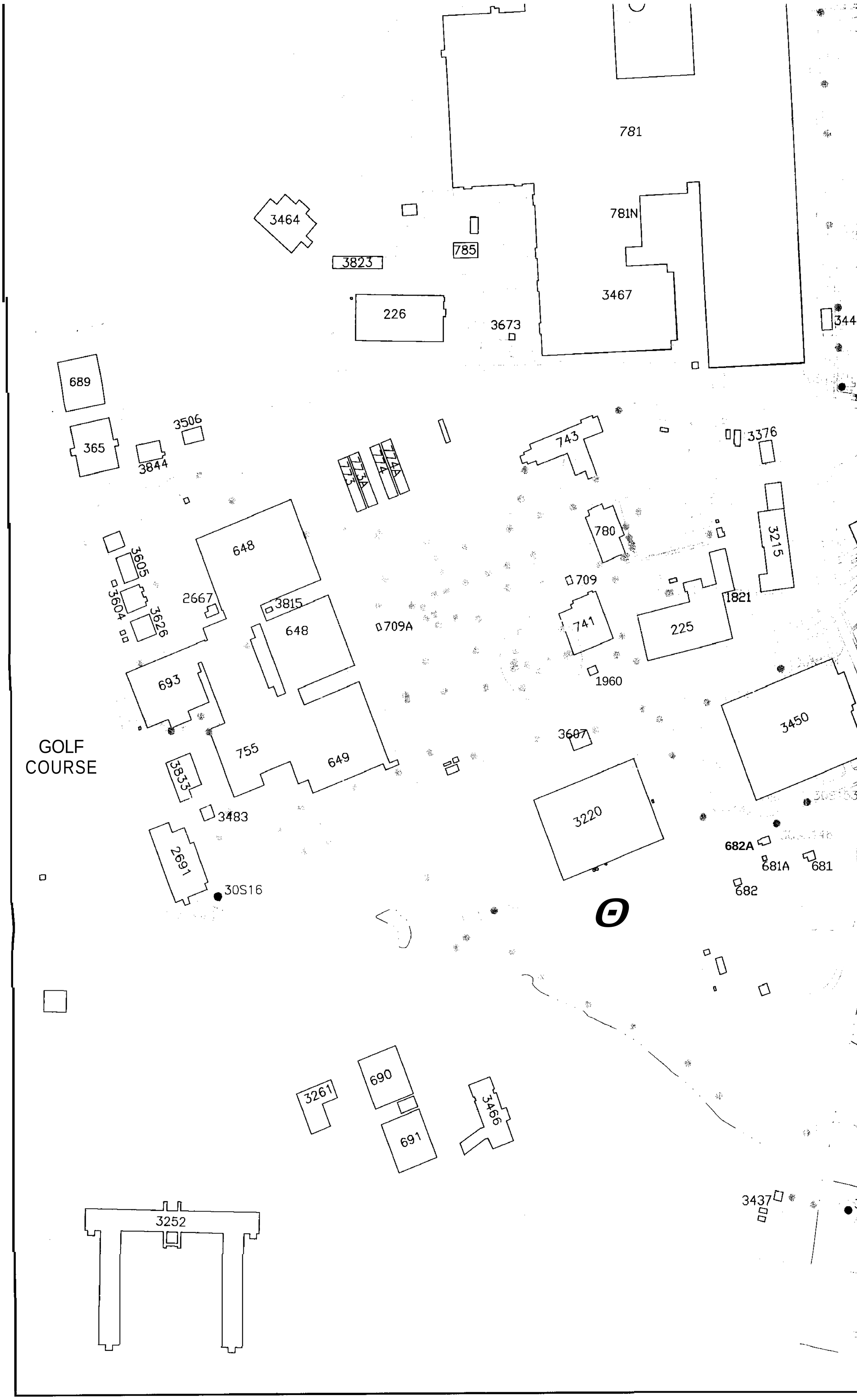
SITE	Location ID	Boring ID	DEPTH FT-BGS	Benzene	Ethylbenzene	Toluene	Xylene
PRG (µg/kg)				3 (1)	200 (1)	200 (1)	100 (1)
11							
	LF-01	11-S-LF01-09	9	8		220 DJ	
	LF-06	11-S-LF06-04	4			210 J	190 J
	LF-08	11-S-LF08-06	6	3		270 J	
	LF-12	11-S-LF12-06	6		3500		19000
30							
	30S16	30-S-0016-18	18	10 J			200
	30S106	30-S-0106-05	5	4 J			
	30S106	30-S-0106-07	7	3 J			
	30S120	30-5-0120-06	6	3 J			
	30S144	30-S-0144-18	18				180 3

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL BETX EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL BETX EXCEEDANCES)
BETX BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total)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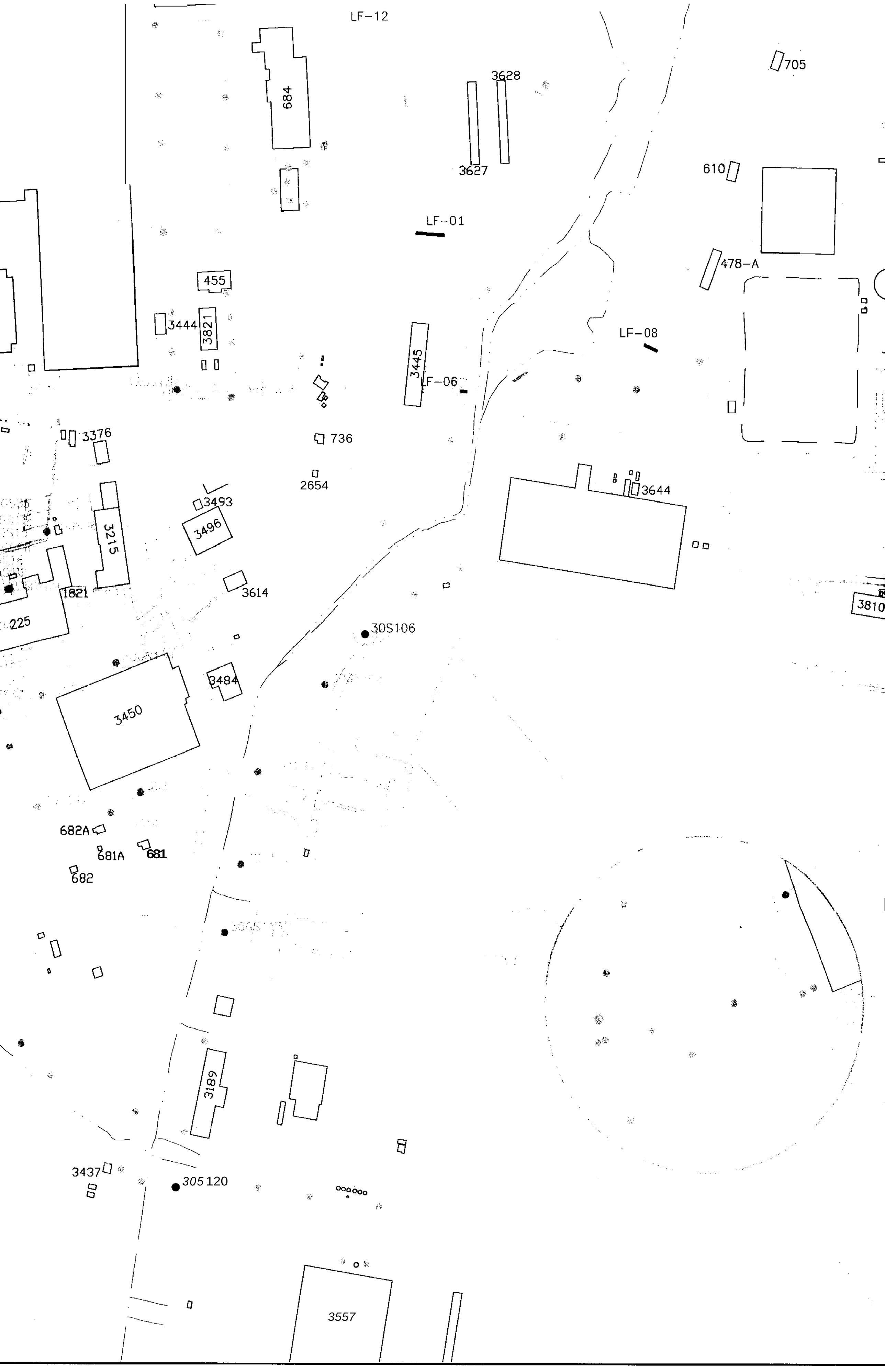
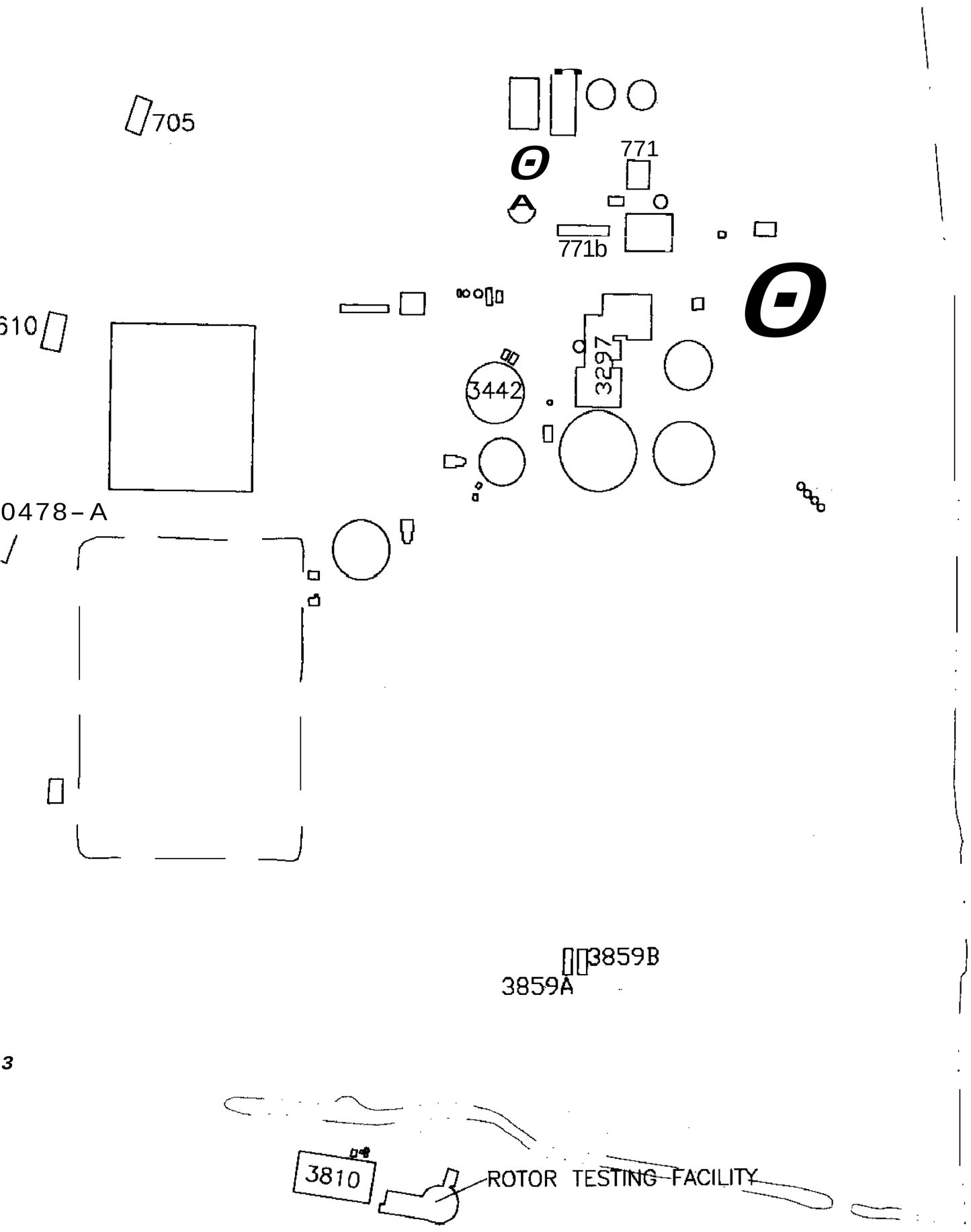
781N
3464
785
3823
3467
226
3673
344
689
365
3506
3844
743
3376
773A
774A
774
773
780
3215
648
3605
3604
3626
2667
3815
709
1821
741
225
709A
648
693
1960
3450
755
649
3607
GOLF
COURSE
3833
3483
3220
682A
681A
681
682
2691
30S16
690
3261
691
3466
3437
3252


LF-12
684
3628
3627
705
610
LF-01
478-A
455
3444
3821
LF-08
3445
LF-06
3376
736
2654
3644
3493
3496
3215
1821
225
3614
3810
30S106
3484
3450
682A
681A
681
682
3189
3437
305 120
3557

	30S120	30-S
	305144	30-S

PRG = PRELIMINARY REMEC
(1) FDEP CLEANUP GOAL



PENSACOLA BAY

743

BETX

1. HIGH
ONE
GRAY
BETX
2. J VA
3. D VA
4. ALL
5. ALL

N

200 0 200
SCALE FEET

	30S120	30-S-0120-06	6	3 J			
	30S144	30-S-0144-18	18				180 J

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SUBSURFACE SOIL BETX EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

SOIL BORING

SOIL BORING (EXHIBITING SUBSURFACE SOIL BETX EXCEEDANCES)

BETX BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total)

APPROXIMATE AREA OF SUBSURFACE SOIL BENZENE, ETHYLBENZENE, TOLUENE, AND/OR XYLENE (total) CONCENTRATIONS EXCEEDING THE FDEP CLEANUP GOAL FOR LEACHING.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE SUBSURFACE SOIL BETX EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF SUBSURFACE SOIL BETX EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE,
4. ALL CONCENTRATIONS IN $\mu g/kg$.
5. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200

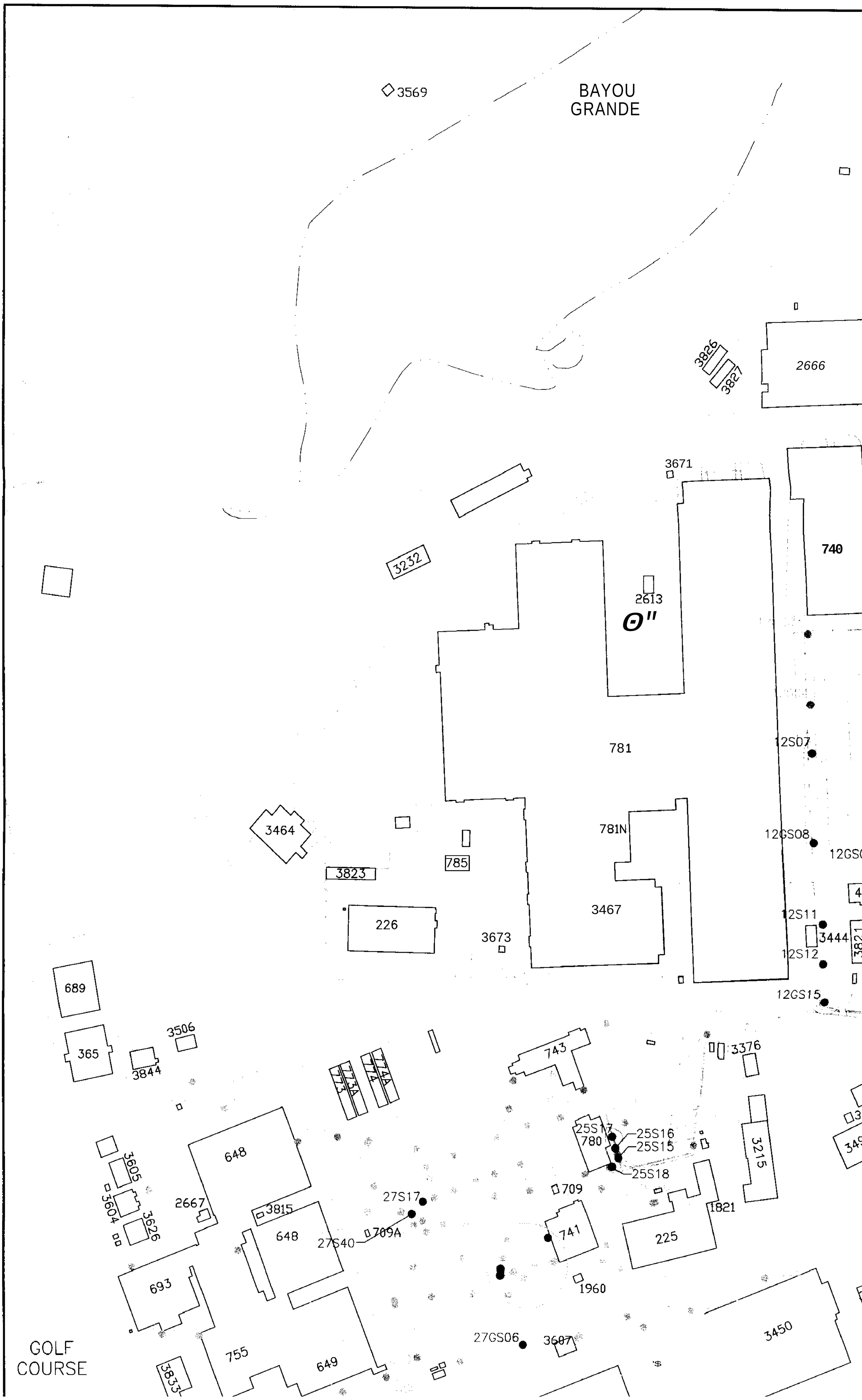
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 5
SUBSURFACE SOIL BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENE (total) EXCEEDANCES

Dr by KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2F10	Of 1

SECTIONS TO FOLLOW ON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3823
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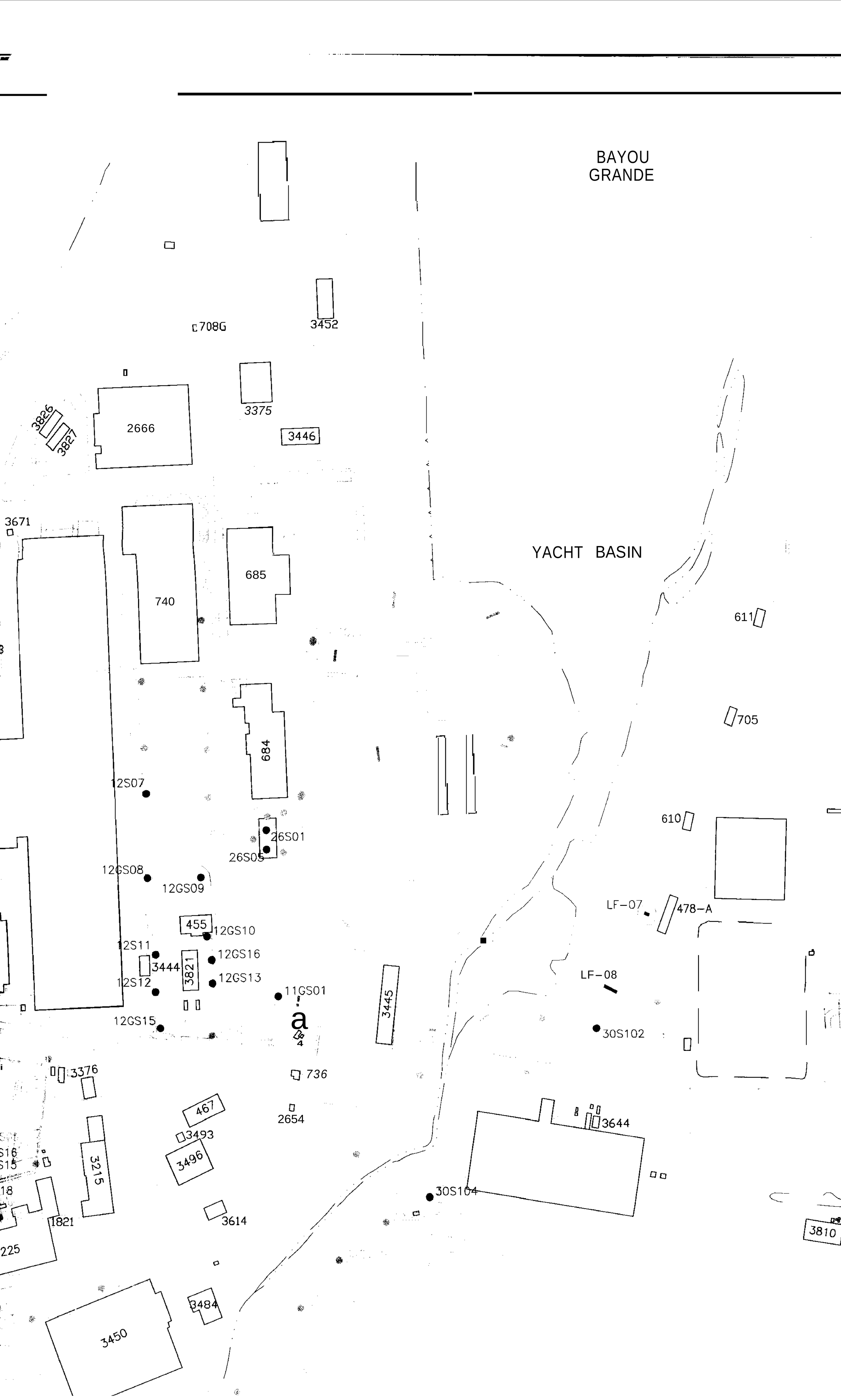
GOLF
COURSE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12S07
26S01
26S05
610
12GS08
12GS09
LF-07
478-A
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
LF-08
11GS01
3445
12GS15
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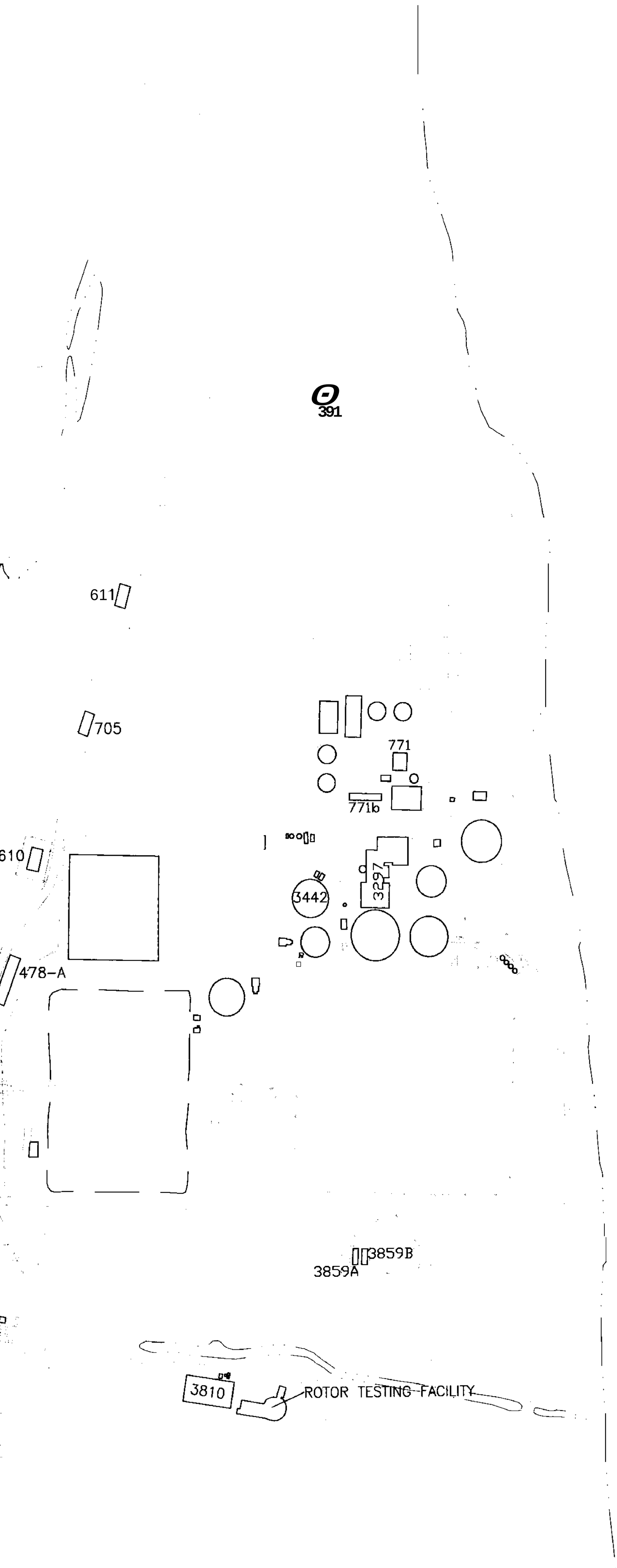
3484
3450



SURFACE SOIL SEMIVOLAT
(SVOC) EXC

Site	LOCATION ID	SAMPLE ID	Dep ft-b
PRG (µg/kg)			
11			
	LF-07	11-S-RA07-01	1
	LF-08	11-S-RA08-01	1
	11GS01	11-S-S001-01	1
12			
	12507	12-S-0007-01	1
	12GS08	12-S-0008-01	1
	12GS09	12-S-0009-01	1
	12GS10	12-S-0010-01	1
	12S11	12-S-0011-01	1
	12S12	12-s-0012-01	1
	12GS13	12-S-0013-01	1
	12GS15	12-S-0015-01	1
	12GS16	12-S-0016-01	1
25			
	25S15	25-S-S015-00	0
	25S16	25-S-S016-00	0
	25S16	25-S-S016-01	1
	25S17	25-S-S017-00	0
	25S18	25-S-S018-00	0
26			
	26S01	26-S-0001-01	1
	26505	26-S-0005-01	1
27			
	27GS06	27-S-0006-01	
	27517	27-S-0017-01	
	27GI03	27-S-0019-00	0
	27S40	27-S-0040-00	0
	27S52	27-S-0052-00	0
	27552	27-S-0052-01	1
	27S53	27-S-0053-01	1
30			
	30S102	30-S-0102-01	1
	30S104	30-5-0104-01	1
	30S116	30-S-0116-01	1
	305137	30-S-0137-01	1
	305140	30-S-0140-01	

PRG = PRELIMINARY REMEDIATION COAL
(1) USEPA RISK-BASED CONCENTRATION

LEGEND

SURFACE WA
CLOSED LAG
743 BUILDING
TRENCH
TRENCH (EX
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING

APPROXIMAT

SURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

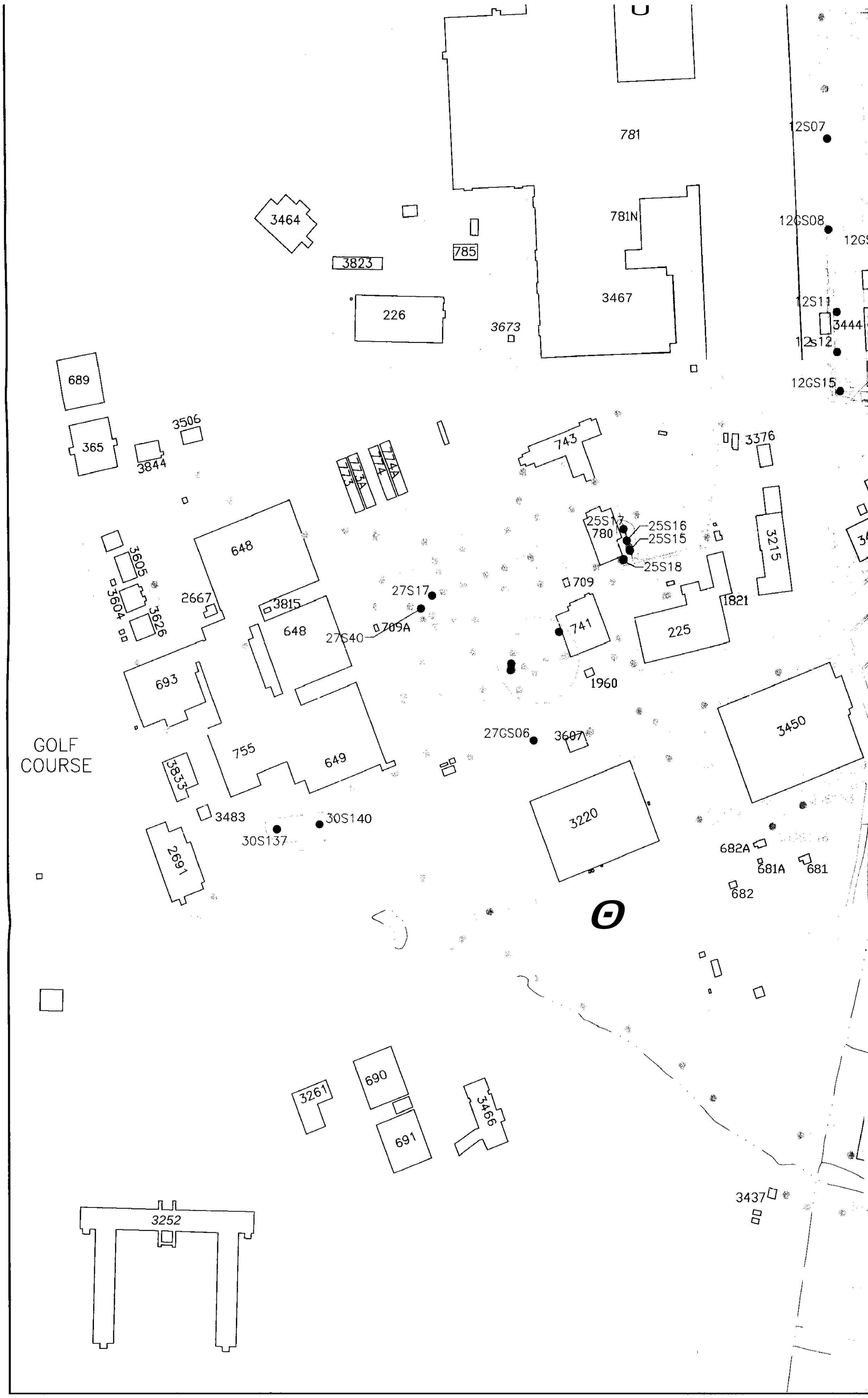
Site	LOCATION ID	SAMPLE ID	Depth ft-bgs	Benzo [a] pyrene	Indeno [1,2,3-cd] pyrene
PRG (µg/kg)				88 (1)	880 (1)
11					
	LF-07	11-S-RA07-01	1	4500	2400
	LF-08	11-S-RA08-01	1	610 J	
	11GS01	11-S-S001-01	1	290 J	
12					
	12507	12-S-0007-01	1	340 J	
	12GS08	12-S-0008-01	1	360	
	12GS09	12-S-0009-01	1	1000	1300
	12GS10	12-S-0010-01	1	1900	
	12511	12-S-0011-01	1	100 J	
	12S12	12-5-0012-01	1	140 J	
	12GS13	12-S-0013-01	1	120 J	
	12GS15	12-S-0015-01	1	190 J	
	12GS16	12-S-0016-01	1	700	
25					
	25515	25-S-S015-00	0	1700	
	25S16	25-S-S016-00	0	470	
	25S16	25-$-SO16-01	1	220 J	
	25S17	25-S-S017-00	0	3400	5100 J
	25S18	25-S-S018-00	0	630	
26					
	26S01	26-S-0001-01	1	100 J	
	26S05	26-S-0005-01	1	88 J	
27					
	27GS06	27-S-0006-01	1	170 J	
	27S17	27-S-0017-01	1	190 J	
	27GI03	27-S-0019-00	0	110 J	
	27S40	27-S-0040-00	0	210 J	
	27S52	27-S-0052-00	0	1300	
	27552	27-S-0052-01	1	1500 J	
	27553	27-5-0053-01	1	95 J	
30					
	30S102	30-S-0102-01	1	190 J	
	305104	30-S-0104-01	1	92 J	
	30S116	30-S-0116-01	1	120 J	
	305137	30-S-0137-01	1	5000 J	5600
	30S140	30-S-0140-01	1	18000	13000

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION

NSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL SVOC EXCEEDANCES)
APPROXIMATE AREA OF SURFACE SOIL BENZO[a]PYRENE CONCENTRATIONS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12GS08
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785
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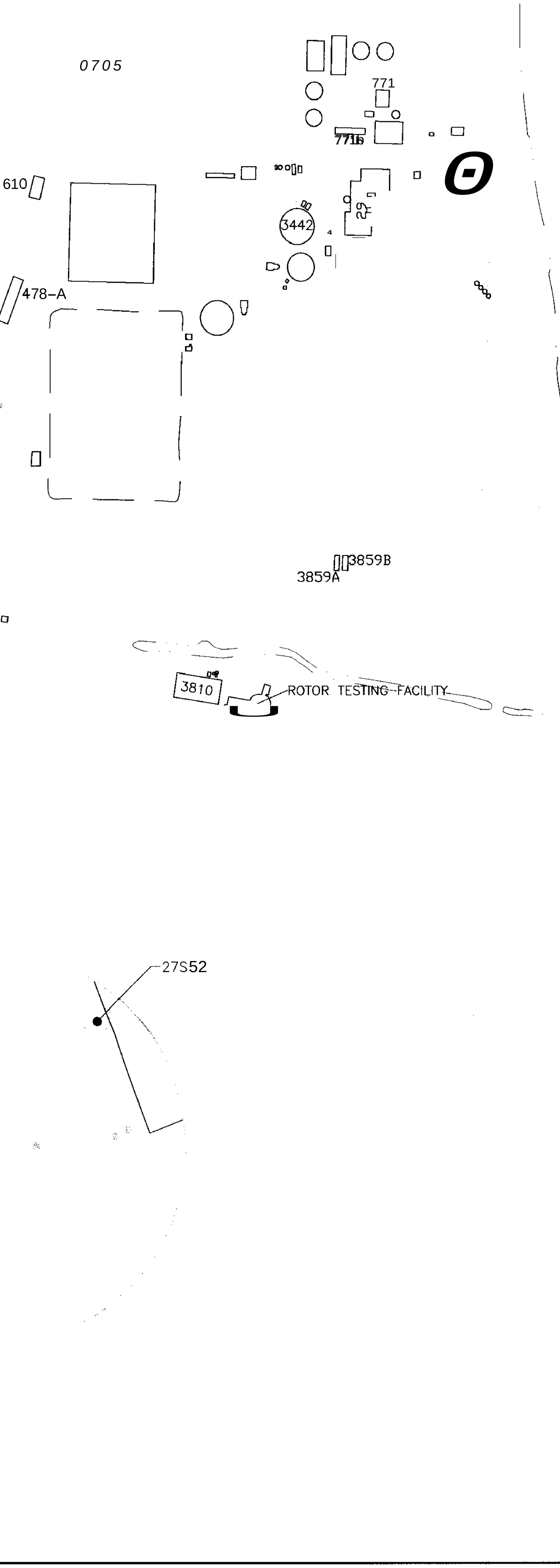
3467
12S11
226
3444
3673
12s12
689
12GS15
3506
365
3844
743
3376
773A
774A
773
774
25S17
780
25S16
25S15
25S18
3215
648
3605
709
3604
2667
27S17
3815
1821
3626
741
648
27S40
709A
225
693
1960
3450
27GS06
3607
755
649
GOLF
COURSE
3833
3483
30S140
3220
30S137
682A
2691
681A
681
682
690
3261
691
3466
3437
3252

684
7
26S01
26S05
12GS08
12GS09
455
12GS10
12S11
3444
3821
12GS16
12S12
12GS13
11GS01
12GS15
3445
3628
7
705
610
LF-07
478
LF-08
30S102
3376
736
467
2654
3493
3496
3644
25S16
25S15
3215
25S18
30S104
1821
3614
225
3484
3450
682A
681A
681
682
27S52
27S53
27G103
3189
3437
30S116
3557



	27517	27-S-0017-01	
	27GI03	27-S-0019-00	
	27540	27-S-0040-00	
	27552	27-S-0052-00	
	27552	27-S-0052-01	
	27S53	27-S-0053-01	
30			
	30S102	30-S-0102-01	
	30S104	30-S-0104-01	
	30S116	30-S-0116-01	
	30S137	30-S-0137-01	
	30S140	30-S-0140-01	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION

PENSACOLA BAY

LEGEND

SURFACE WA
CLOSED LAG
743 BUILDING
TRENCH
TRENCH (EXI
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING
APPROXIMATI
EXCEEDING
APPROXIMAT
CONCENTRA

1. HIGHLIGHTE
BENZO[a]PY
SOIL EXCEE
GRAY SOIL
AND/OR IN
2. J VALUE IN
3. ALL CONCE
4. ALL DEPTH

200 0 200
SCALE FEET

	27S17	27-S-0017-01	1	190	J	
	27GI03	27-S-0019-00	0	110	J	
	27S40	27-S-0040-00	0	210	J	
	27S52	27-S-0052-00	0	ODE1		
	27S52	27-S-0052-01	1	1500	J	
	27S53	27-S-0053-01	1	95	J	
30						
	30S102	30-S-0102-01	1	190	J	
	30S104	30-S-0104-01	1	92	J	
	30S116	30-S-0116-01	1	120	J	
	30S137	30-S-0137-01	1	5000	J	5600
	30S140	30-S-0140-01	1	18000		13000

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION

NSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL SVOC EXCEEDANCES)

APPROXIMATE AREA OF SURFACE SOIL BENZO[a]PYRENE CONCENTRATIONS EXCEEDING THE USEPA RISK-BASED CONCENTRATION.

APPROXIMATE AREA OF SURFACE SOIL BENZO[a]PYRENE AND INDENO[1,2,3-CD]PYRENE CONCENTRATIONS EXCEEDING THE USEPA RISK-BASED CONCENTRATION.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF BENZO[a]PYRENE AND/OR INDENO[1,2,3-CD]PYRENE SURFACE SOIL EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF BENZO[a]PYRENE AND/OR INDENO [1,2,3-CD] PYRENE SURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN μg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

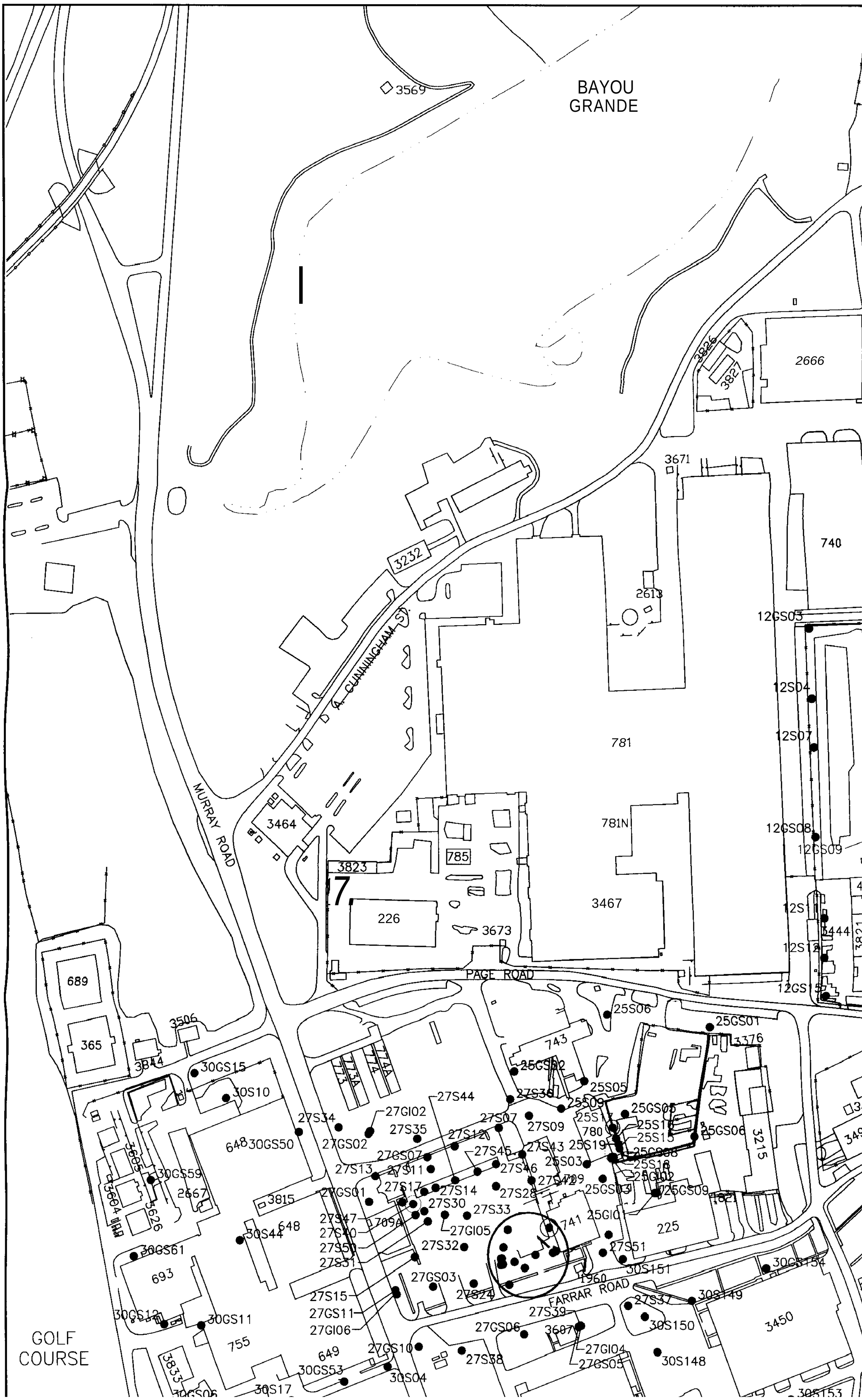
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 6
SURFACE SOIL BENZO[a]PYRENE AND/OR INDENO[1,2,3-CD]PYRENE EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/05/97	DWG Name: 590U2SVO	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
12S04
12S07
781
781N
12GS08
12GS09
3232
A. CUNNINGHAM ST.
MURRAY ROAD
3464
785
3823
7
226
3673
3467
12S11
3444
12S12
12GS15
PAGE ROAD
689
365
3506
3844
30GS15
30S10
25S06
25GS01
3376
743
25GS02
25S05
27S44
27S36
25S09
25GS05
27GI02
27S34
27S35
27S07
27S09
780
25S17
25S18
25S15
25GS06
3215
648
30GS50
27GS02
27S12
27S43
25S19
27GS07
27S45
25S03
25GS08
25S16
25GI02
27S13
27S11
27S46
27S42
27S29
25GS03
25GS09
3605
30GS59
2667
3604
3626
3815
27GS01
27S17
27S14
27S28
27S30
27S33
741
25GI0
225
27S47
709A
27S40
27S50
27S31
27GI05
27S32
27S51
30S44
30GS61
693
30S151
30GS154
27GS03
27S24
1960
FARRAR ROAD
27S37
30S149
27S15
27GS11
27GI06
27S39
30GS12
30GS11
27GS06
3607
30S150
3450
755
649
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27S38
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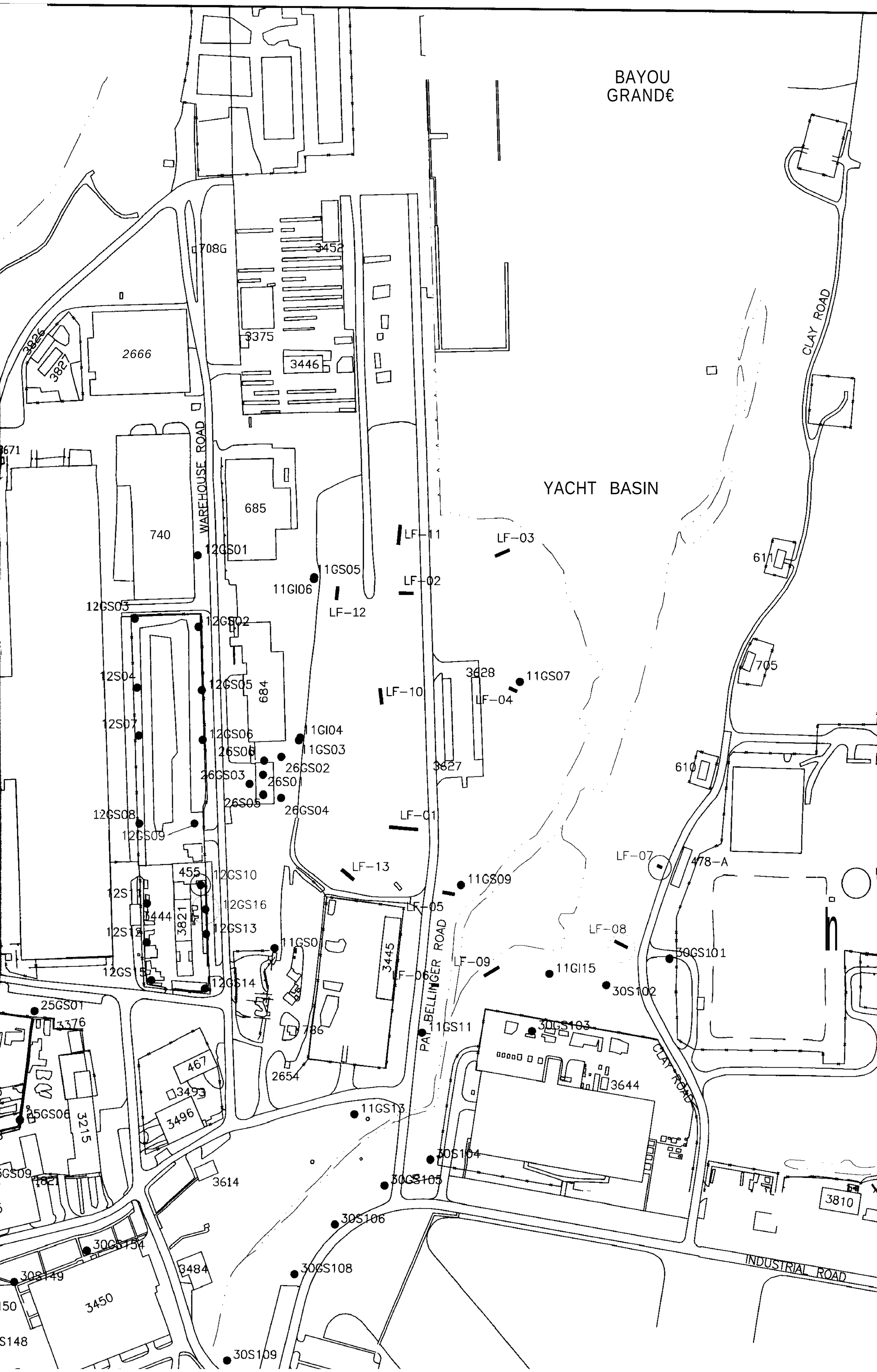
27GS05
30S148
GOLF
COURSE
3833
30GS53
30S04
30S17


BAYOU
GRAND€
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
671
740
685
684
12GS01
11GS05
11GI06
LF-12
LF-11
LF-03
LF-02
12GS03
12GS02
12S04
12GS05
12S07
12GS06
26S06
11GI04
11GS03
26GS02
26GS03
26S01
26S05
26GS04
12GS08
12GS09
LF-10
3628
11GS07
LF-04
3627
LF-01
LF-13
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
12GS15
12GS14
11GS0
3445
LF-06
LF-05
11GS09
LF-07
478-A
611
705
610
LF-08
30GS101
LF-09
11GI15
30S102
11GS11
30GS103
3644
25GS01
3376
467
3493
3496
2654
786
25GS06
3215
11GS13
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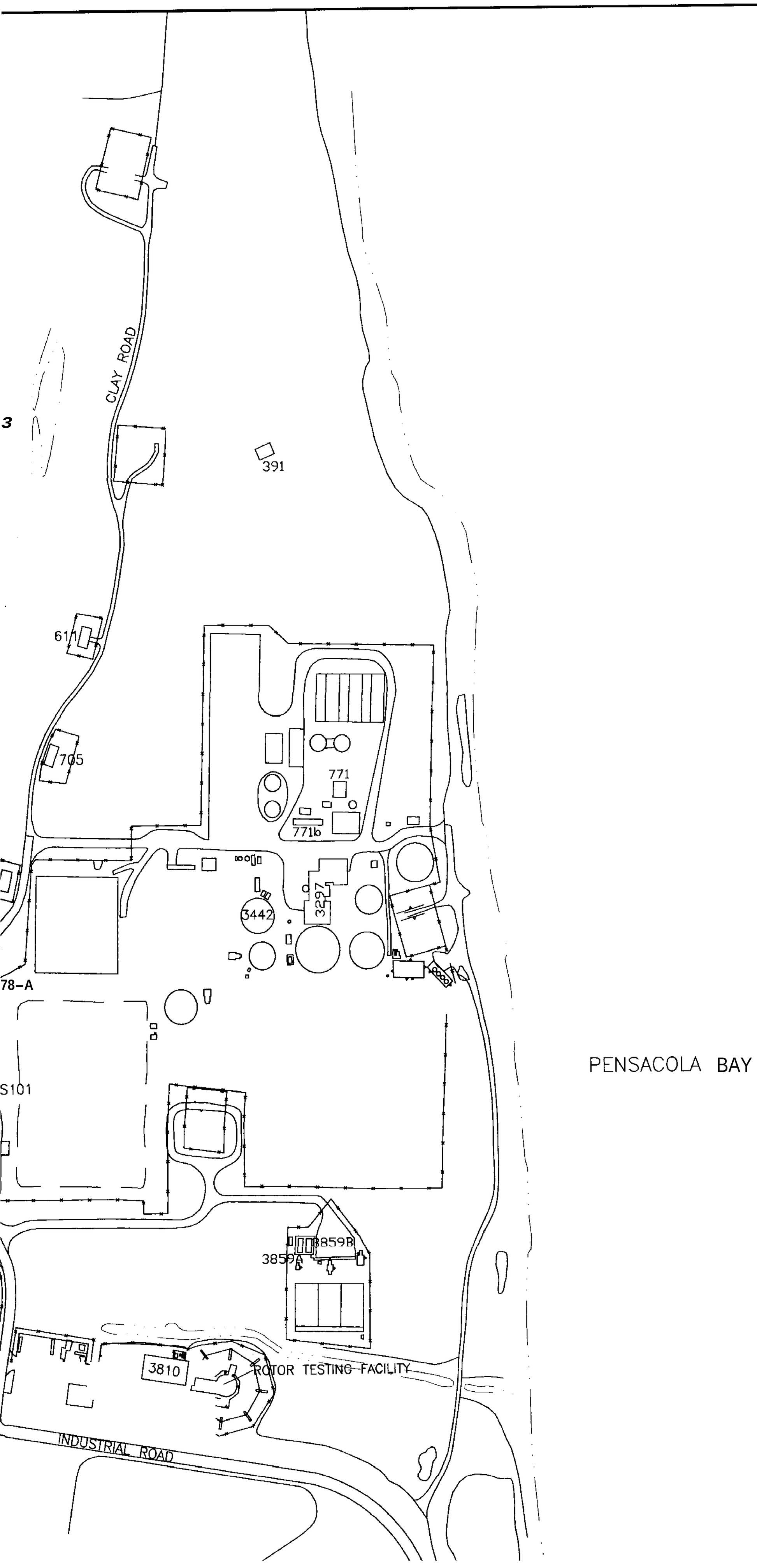
30GS105
3614
3810
30S106
30GS154
30GS108
3484
30S149
3450
30S109



SURFACE SOIL
DIBENZ[a,h]A

Site	LOCATION ID	SAMP ID
PRG (µg/kg)		
11		
	LF-07	11-S-R
	LF-08	11-S-R
12		
	12GS09	12-s-or
	12GS10	12-S-0
	12GS16	12-S-0
25		
	25S15	25-S-S
	25S17	25-S-S
	25S18	25-S-S
27		
	27S40	27-S-0
	27552	27-S-0
	27552	27-S-0
30		
	30S137	30-S-0
	30S140	30-S-0

PRG = PRELIMINARY REMEDIAL G
(1) FDEP CLEANUP GOAL (RESID
(2) USEPA RISK-BASED CONCEN

LEGI

SURF
CLOS
743 BUILI
TREN
TREN
FENC
ROAD
SIDE
SOIL
SOIL
APP
CON
APP
CON
APP
ANC

SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES

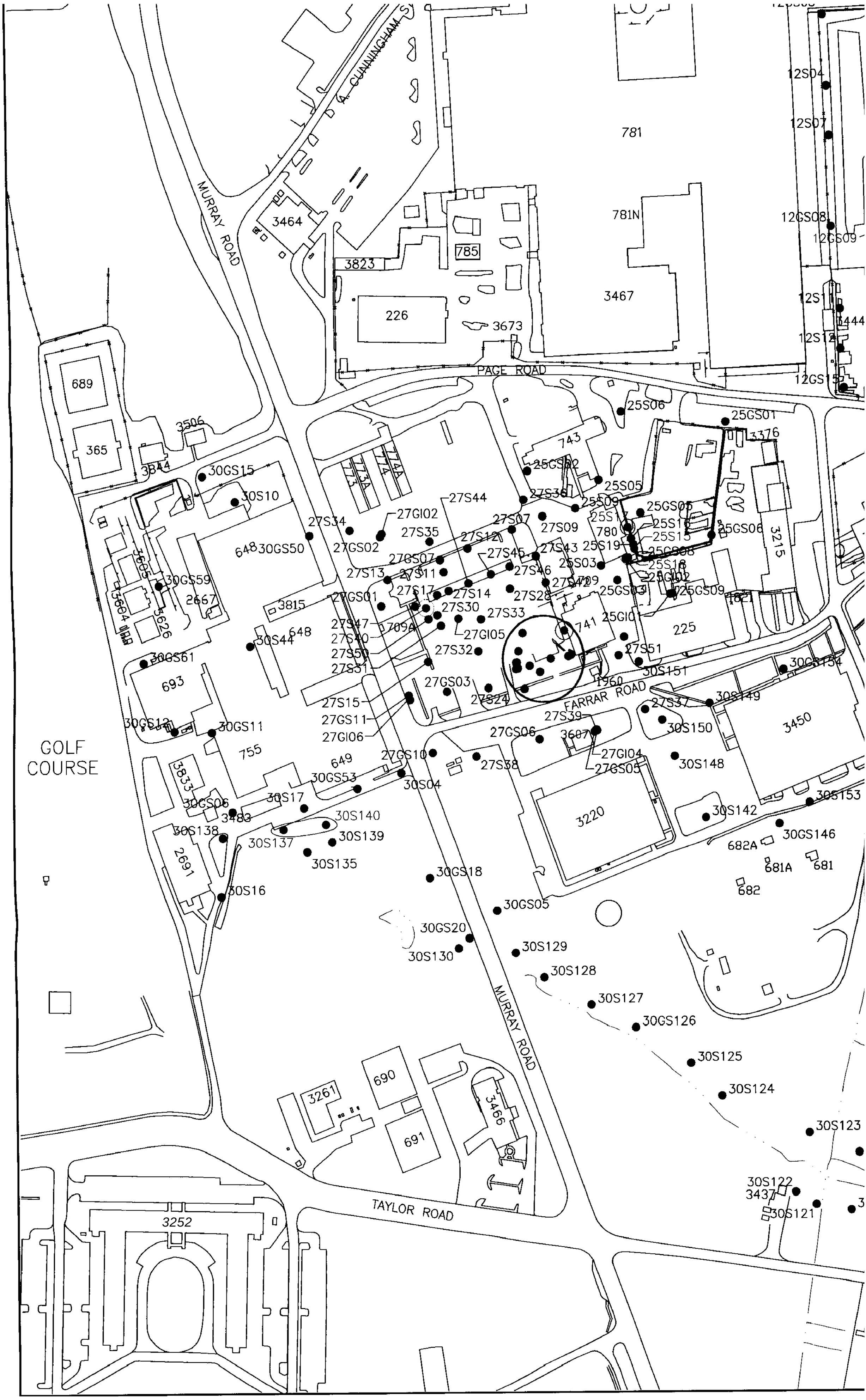
Site	LOCATION ID	SAMPLE ID	Depth ft–bgs	Benzo [a] anthracene	Dibenzo [a,h] anthracene
PRG (µg/kg)				880 (1)	88 (2)
11					
	LF–07	11–S–RA07–01	1	4600	1200 J
	LF–08	11–S–RA08–01			210 J
12					
	12GS09	12–S–0009–01	1	1200	
	12GS10	12–S–0010–01	1	1500	230 J
	12GS16	12–S–0016–01			190 J
25					
	25S15	25–S–S015–00	0	2000	
	25S17	25–S–S017–00	0	3800 J	2200 J
	25S18	25–S–S018–00	0	1300 J	
27					
	27540	27–S–0040–00	0		91 J
	27552	27–S–0052–00	0	1800 J	180 J
	27S52	27–S–0052–01		2100 J	150 J
30					
	30S137	30–S–0137–01	1	2500 J	2100 J
	30S140	30–S–0140–01	1	22000	5900 J

PRG = PRELIMINARY REMEDIAL GOAL
(1) FDEP CLEANUP GOAL (RESIDENTIAL)
(2) USEPA RISK–BASED CONCENTRATION

SACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES)
APPROXIMATE AREA OF SURFACE SOIL BENZO[a]ANTHRACENE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.
APPROXIMATE AREA OF SURFACE SOIL DIBENZ[a,h]ANTHRACENE CONCENTRATIONS EXCEEDING THE USEPA RISK–BASED CONCENTRATION.
APPROXIMATE AREA OF SURFACE SOIL BENZO[a]ANTHRACENE AND DIBENZ[a,h]ANTHRACENE CONCENTRATIONS EXCEEDING THE


A. CUNNINGHAM
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3464
3823
3467
226
3673
689
365
3506
3844
30GS15
30S10
648
30GS50
27S34
27GI02
27S35
27GS02
27S44
27S07
27S09
27S12
27S45
27S43
27S46
27S42
27S29
27S28
27S14
27S17
27S13
27S11
27GS07
27GS01
27S30
27S33
27GI05
27S32
27S47
27S40
27S50
27S31
709A
741
743
25S06
25GS01
3376
25GS02
25S05
25S09
25GS05
25S17
25S16
25S15
25GS08
25S18
25GI02
25GS09
25GS03
25S03
25S19
780
3215
25GS06
25GI01
225
27S51
30S151
30GS154
1960
30S149
27S37
30S150
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27S39
27GS06
3607
27GI04
27GS05
30S148
30S153
30S142
30GS146
682A
681A
681
682
3220
27S38
27GS10
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30GS53
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755
30GS11
30GS12
693
30GS61
30S44
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2667
30GS59
3605
3604
3626
3833
30GS06
3483
30S17
30S140
30S139
30S137
30S138
30S135
2691
30S16
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30GS20
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30S129
30S128
30S127
30GS126
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30S123
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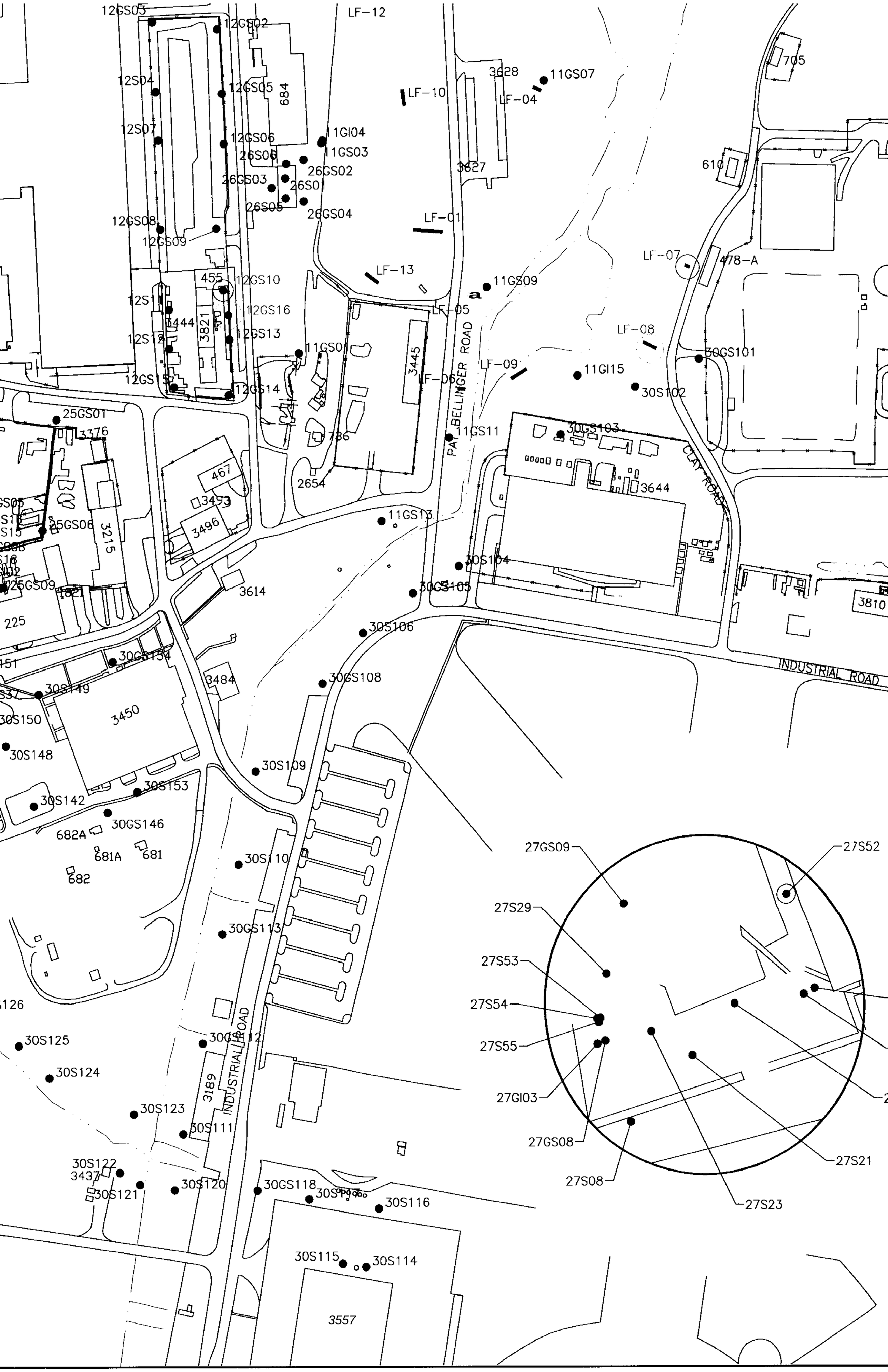
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LF-12
12S04
12GS05
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12GS06
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26S06
11GS03
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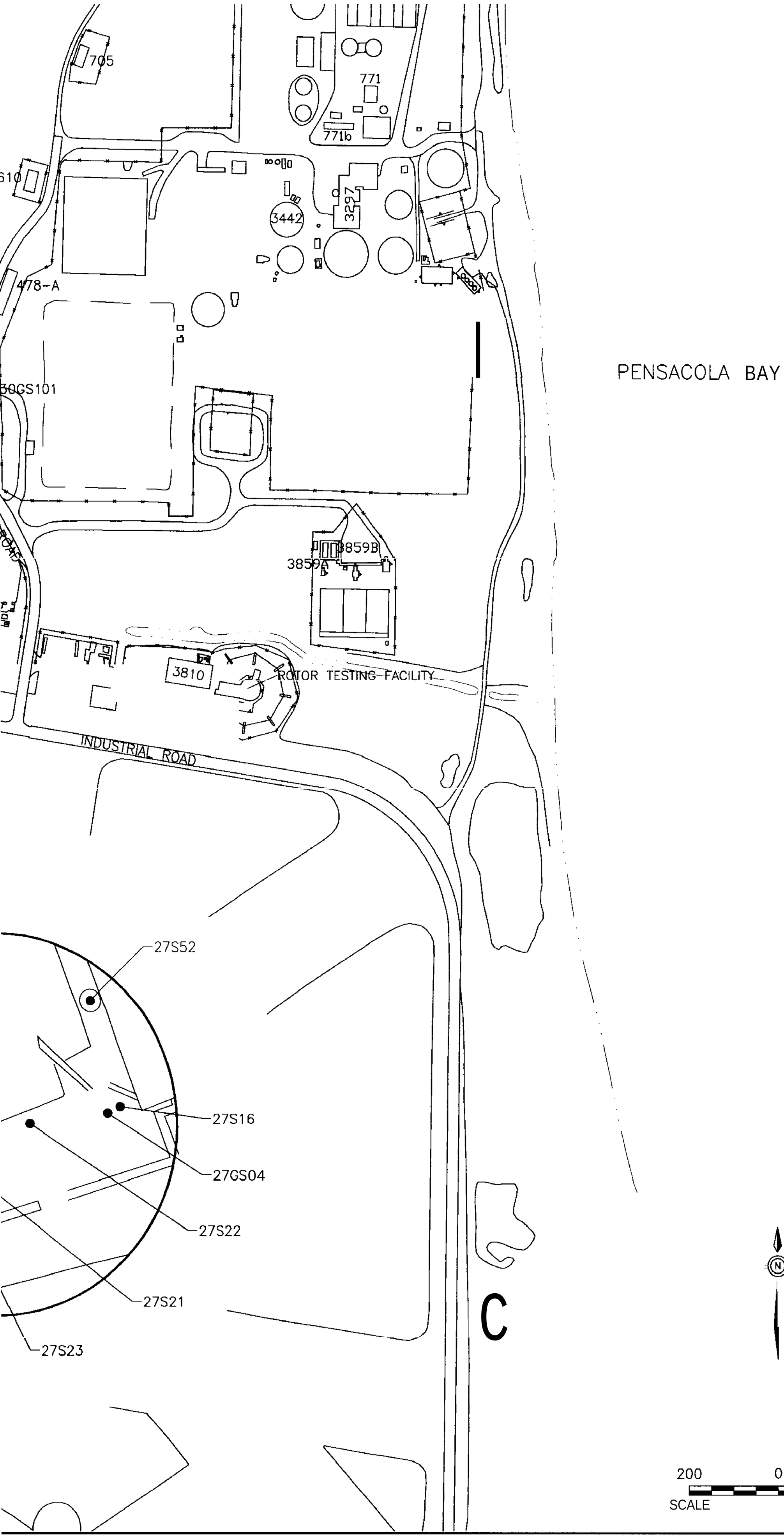
26S01
26S05
26GS04
12GS08
12GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
11GS0
12GS15
12GS14
LF-13
LF-10
3628
11GS07
LF-04
3627
LF-01
705
610
LF-07
478-A
11GS09
LF-05
3445
LF-06
PAT BELLINGER ROAD
LF-08
LF-09
11GI15
30GS101
30S102
25GS01
3376
11GS11
30GS103
CLAY ROAD
3644
467
3493
3496
2654
11GS13
25GS06
3215
25GS09
3614
30S104
30GS105
3810
225
30S106
30GS154
INDUSTRIAL ROAD
3484
30GS108
30S149
3450
30S150
30S148
30S109
30S153
30S142
30GS146
682A
681A
681
682
30S110
30GS113
30S125
30S124
3189
INDUSTRIAL ROAD
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S116
30S115
30S114
3557
27GS09
27S52
27S29
27S53
27S54
27S55
27GI03
27GS08
27S08
27S21
27S23

PRG = PRELIMINARY REMEI
(1) FDEP CLEANUP GOAL
(2) USEPA RISK-BASED C



743

PRG = PRELIMINARY REMEDIAL GOAL
(1) FDEP CLEANUP GOAL (RESIDENTIAL)
(2) USEPA RISK-BASED CONCENTRATION

ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES)

APPROXIMATE AREA OF SURFACE SOIL BENZO[a]ANTHRACENE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SURFACE SOIL DIBENZ[a,h]ANTHRACENE CONCENTRATIONS EXCEEDING THE USEPA RISK-BASED CONCENTRATION.

APPROXIMATE AREA OF SURFACE SOIL BENZO[a]ANTHRACENE AND DIBENZ[a,h]ANTHRACENE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL AND USEPA RISK-BASED CONCENTRATION.

NOTE

1. HIGHLIGHTED SOIL BORING INDICATE THE PRESENCE OF BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE SURFACE SOIL EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE SURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN $\mu g/kg$.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

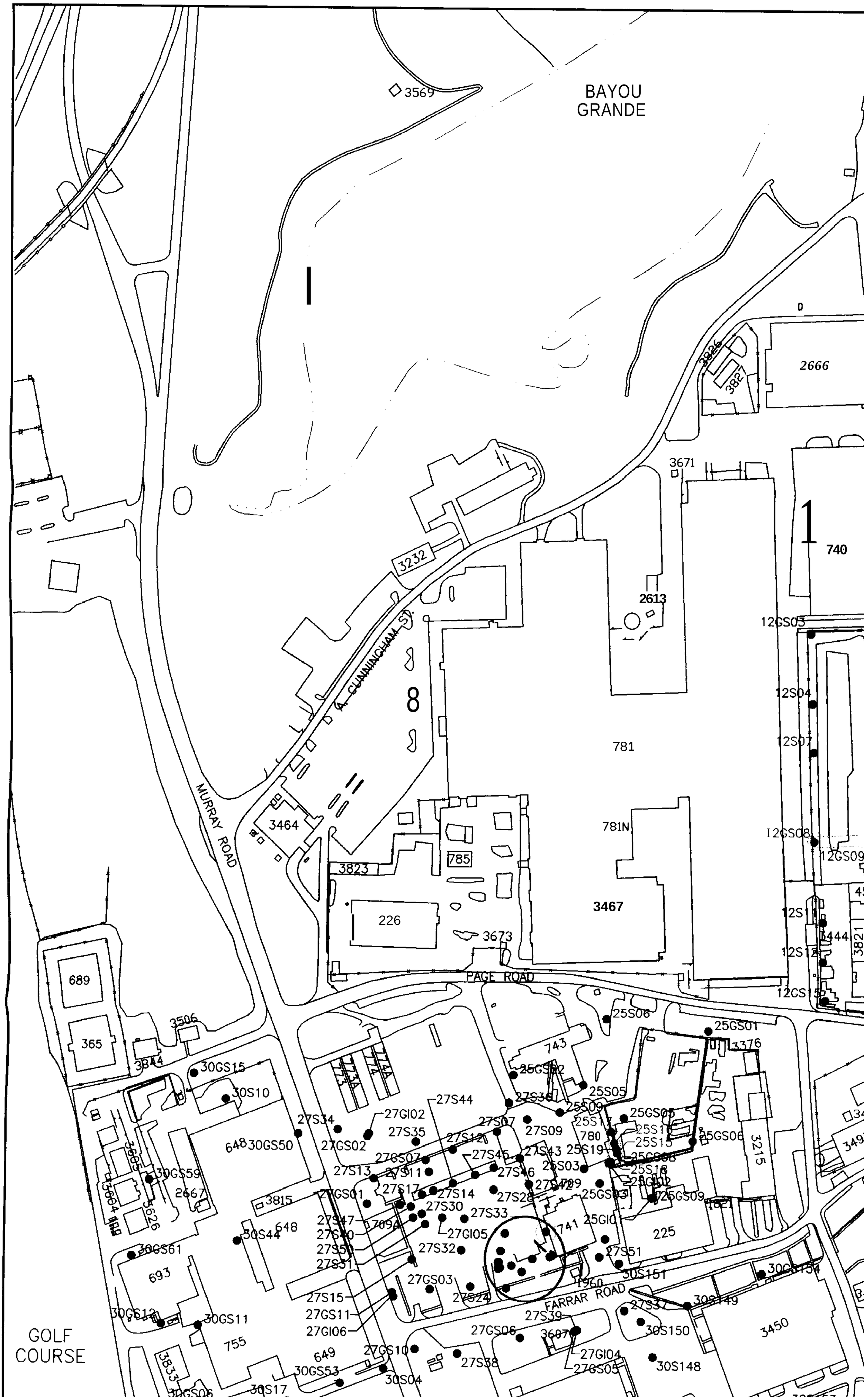
200 0 200
SCALE FEET

NAS PENSACOLA
OPERATIONAL UNIT 2 (OU-2)

FIGURE 7
SURFACE SOIL BENZO[a]ANTHRACENE AND/OR DIBENZ[a,h]ANTHRACENE EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 06/19/97	OWG Name: 59OU2BDE	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
3826
3827
2666
3671
2613
740
12GS03
12S04
12S07
781
781N
12GS08
12GS09
12S11
3444
12S12
12GS15
3821
3232
A. CUNNINGHAM ST.
8
MURRAY ROAD
3464
785
3823
226
3467
3673
PAGE ROAD
689
365
3506
3844
30GS15
30S10
774A
773A
774
773
25S06
25GS01
3376
743
25GS02
25S05
27S36
25S09
25GS05
27S44
27GI02
27S34
27S35
27S07
27S09
780
25S17
25S16
25S15
25GS06
3215
648
30GS50
27GS02
27S12
27S45
27S43
25S19
25GS08
27GS07
27S46
25S03
25S18
30GS59
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27S40
27S50
27S31
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27GI05
741
25GI01
225
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30GS61
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693
27GS03
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30GS154
1960
27S24
FARRAR ROAD
27S37
30S149
27S15
27GS11
27GI06
30GS12
30GS11
27S39
27GS06
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30S150
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30S148
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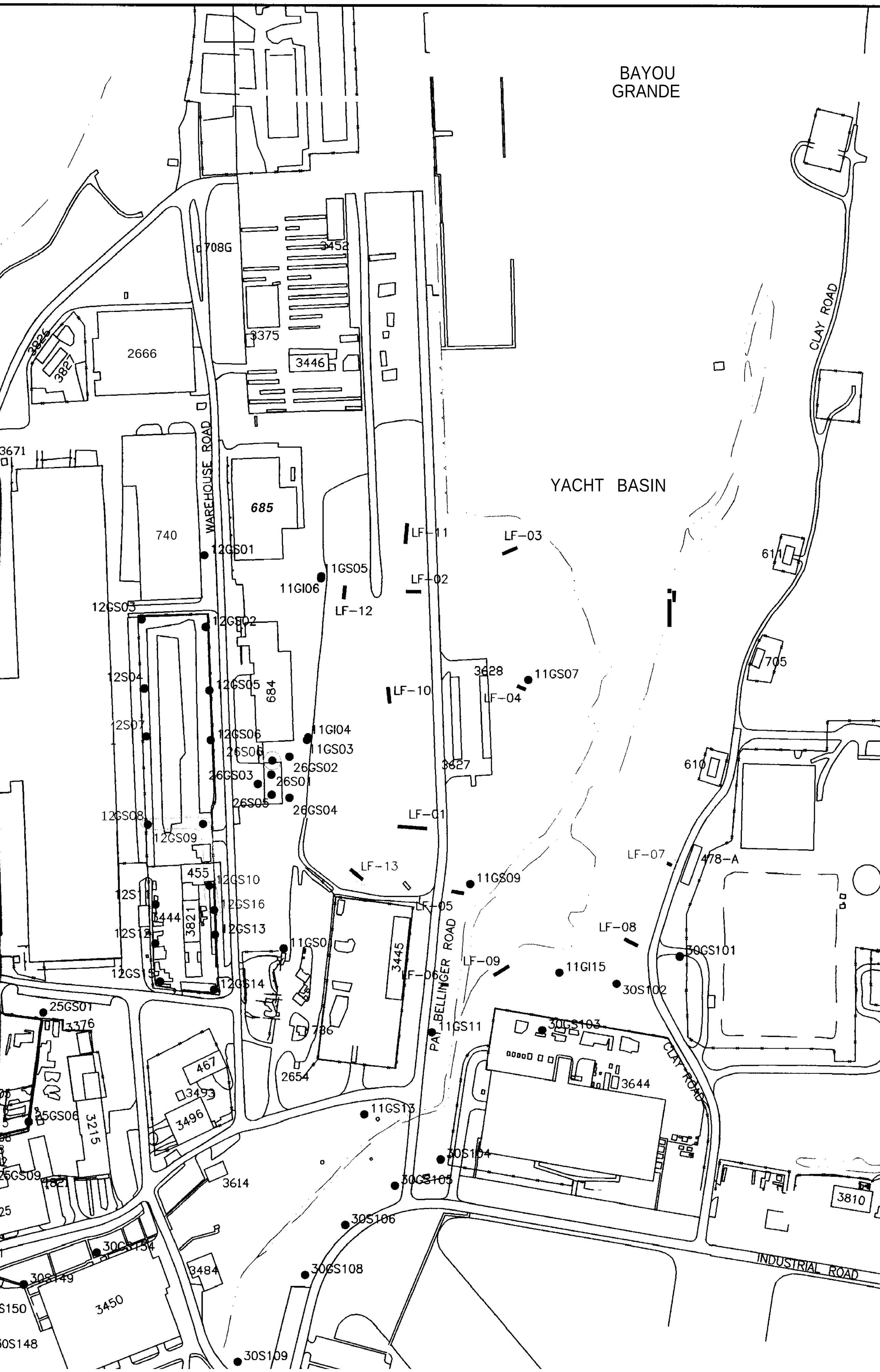
30GS53
30S04
30GS06
30S17
GOLF COURSE


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
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3452
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2666
3826
3827
3671
685
740
12GS01
11GS05
11GI06
LF-12
LF-11
LF-03
LF-02
611
12GS03
12GS02
705
12S04
12GS05
684
LF-10
3628
11GS07
LF-04
12S07
12GS06
11GI04
26S06
11GS03
26GS02
26GS03
26S01
3627
610
26S05
26GS04
12GS08
LF-01
12GS09
LF-07
478-A
455
12GS10
LF-13
11GS09
12S
12GS16
LF-05
3444
3821
12S
12GS13
LF-08
11GS0
3445
30GS101
LF-09
11GI15
12GS15
LF-06
12GS14
30S102
25GS01
3376
11GS11
30GS103
736
467
2654
3493
3496
3644
25GS06
3215
11GS13
30S104
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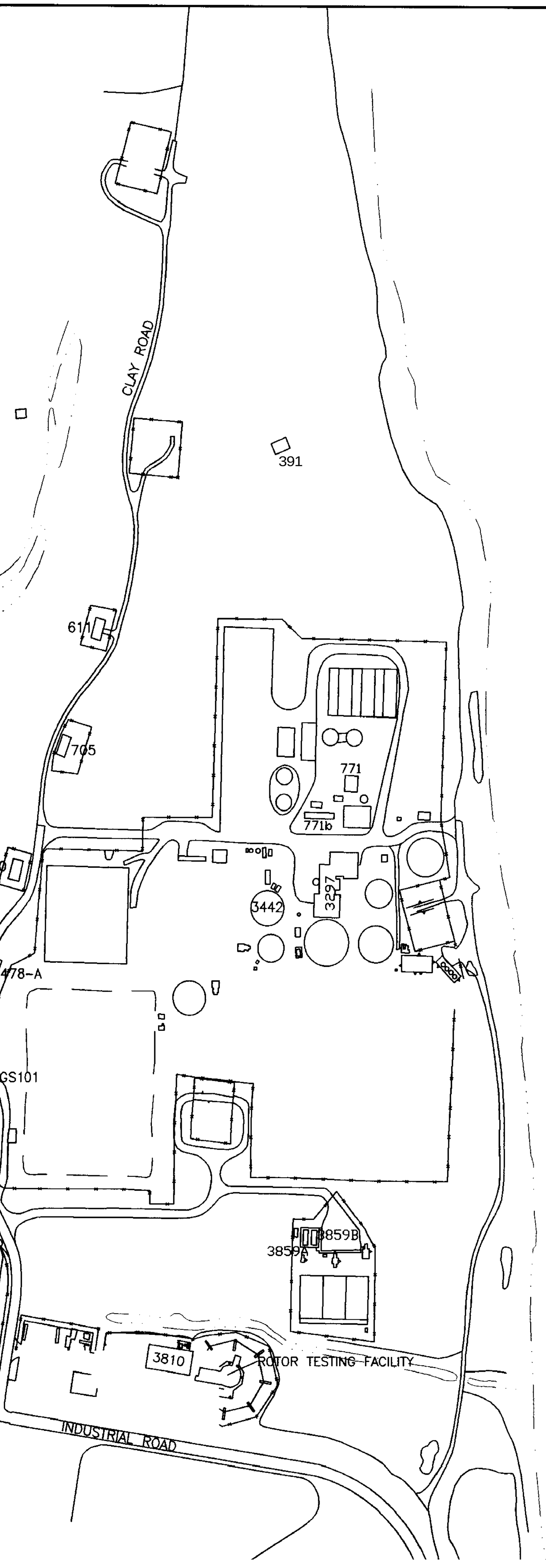


PENSACOLA BAY

SEL ORGA		
Site	LOCATION ID	S
PRG (µg/kg)		
11		
	LF-07	11-S
	LF-13	11-S
12		
	12GS08	12-S
	12GS09	12-S
	12GS10	12-S
	12GS16	12-S
25		
	25S15	25-S
	25S16	25-S
	25S17	25-S
	25S18	25-S
26		
	26505	26-S
27		
	27552	27-S
	27552	27-S
30		
	30S137	30-S
	30S140	30-S

PRG = PRELIMINARY REMEDIAT
(1) USEPA RISK-BASED CONC
(2) FDEP CLEANUP GOAL

LEG

SUR
CLO
743 BUI
TRE
TRE
FEN
ROA
SIDE
SOIL
SOIL

AP
AN
US

AP
CO

SELECTED SURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

Site	LOCATION ID	SAMPLE ID	Depth ft-bgs	Benzo [b] fluoranthene	Benzo [k] fluoranthene	Nitro benzene
PRG (µg/kg)				880 (1)	4000 (1)	40 (2)
11						
	LF-07	11-S-RA07-01	1	5200		
	LF-13	11-S-RA13-01	1	1300		
12						
	12GS08	12-S-0008-01	1	900		
	12GS09	12-S-0009-01	1	**3600** J		
	12GS10	12-S-0010-01	1	**4500** J		
	12GS16	12-S-0016-01	1	**940**		
25						
	25515	25-S-S015-00	0	**4700**		
	25S16	25-S-S016-00	0	**1300** J		
	25S17	25-5-$017-00	0	*7700* J		
	25518	25-S-S018-00	0	1800		
26						
	26505	26-S-0005-05	1			350
27						
	27S52	27-S-0052-00	0	*2600* J		
	27S52	27-S-0052-01	1	**3100** J		
30						
	30S137	30-S-0137-01	1	4600		
	30S140	30-S-0140-01	1	**16000**	21000	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) FDEP CLEANUP GOAL

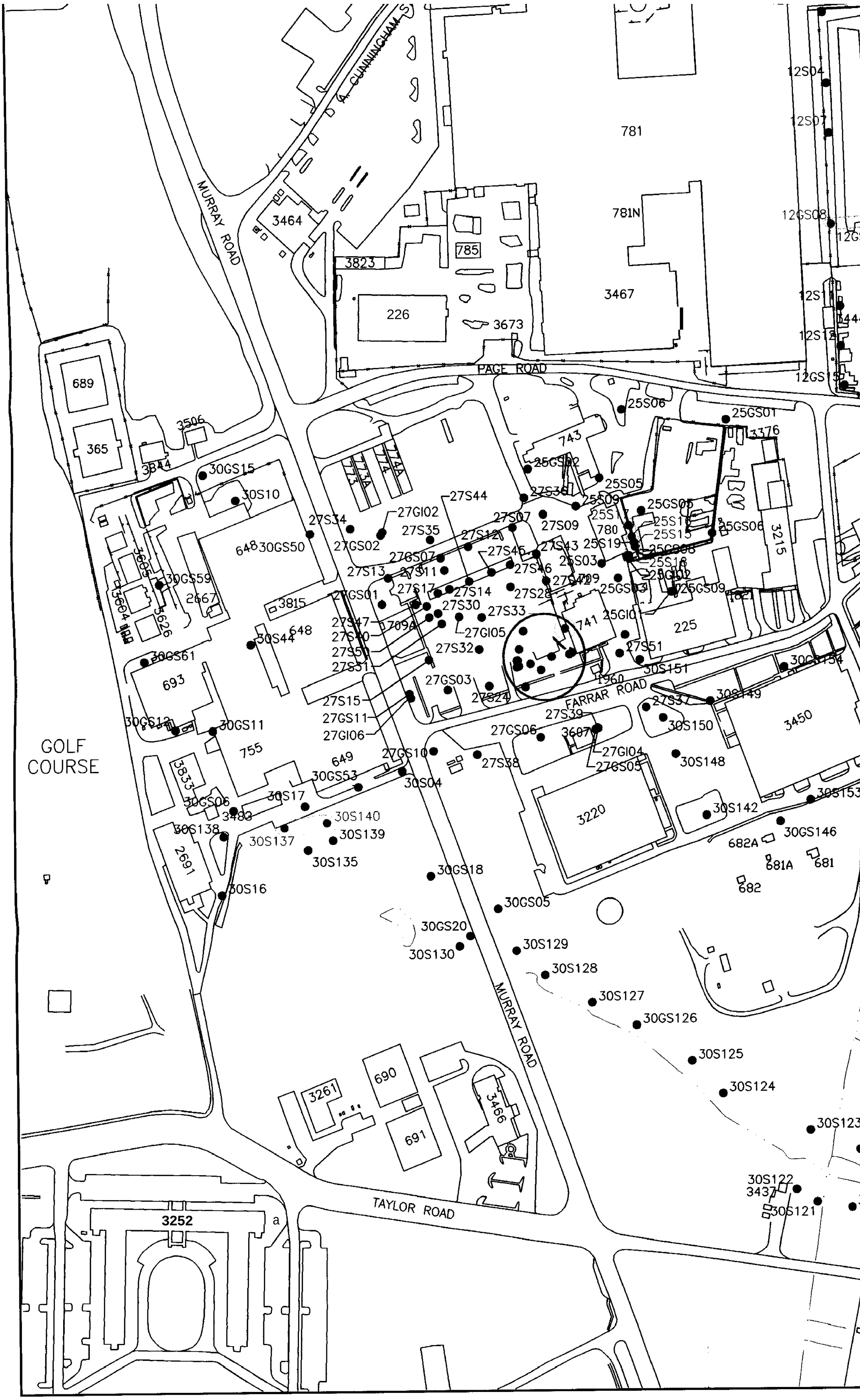
ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SELECTED SURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SELECTED SURFACE SOIL SVOC EXCEEDANCES)

APPROXIMATE AREA OF SUBSURFACE SOIL BENZO[b]FLUORANTHRENE AND/OR BENZO[k]FLUORANTHENE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL N-NITROSO-di-n-PROPYLAMINE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.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3464
3823
785
226
3673
3467
781
781N
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12S
12S12
12GS15
PAGE ROAD
689
365
3506
3844
30GS15
30S10
648
30GS50
27S34
27GI02
27S35
27GS02
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25S15
25GS08
25S18
25GI02
25GS03
25GS09
25S19
25S03
780
25GS06
3215
1021
25GI0
225
27S51
30S151
30GS154
1960
FARRAR ROAD
30S149
27S37
30S150
3450
27S39
27GS06
3607
27GI04
27GS05
30S148
30S153
30S142
30GS146
682A
681A
681
682
3220
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30S128
30S127
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30S125
30S124
30S123
30S122
3437
30S121
30S130
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MURRAY ROAD
TAYLOR ROAD
3605
30GS59
3604
2667
3626
3815
30S44
30GS61
693
30GS12
30GS11
755
3833
30GS06
3483
30S138
2691
30S16
30S17
30GS53
649
27GS10
30S04
27S38
30S140
30S139
30S137
30S135
27GS03
27S24
27S15
27GS11
27GI06
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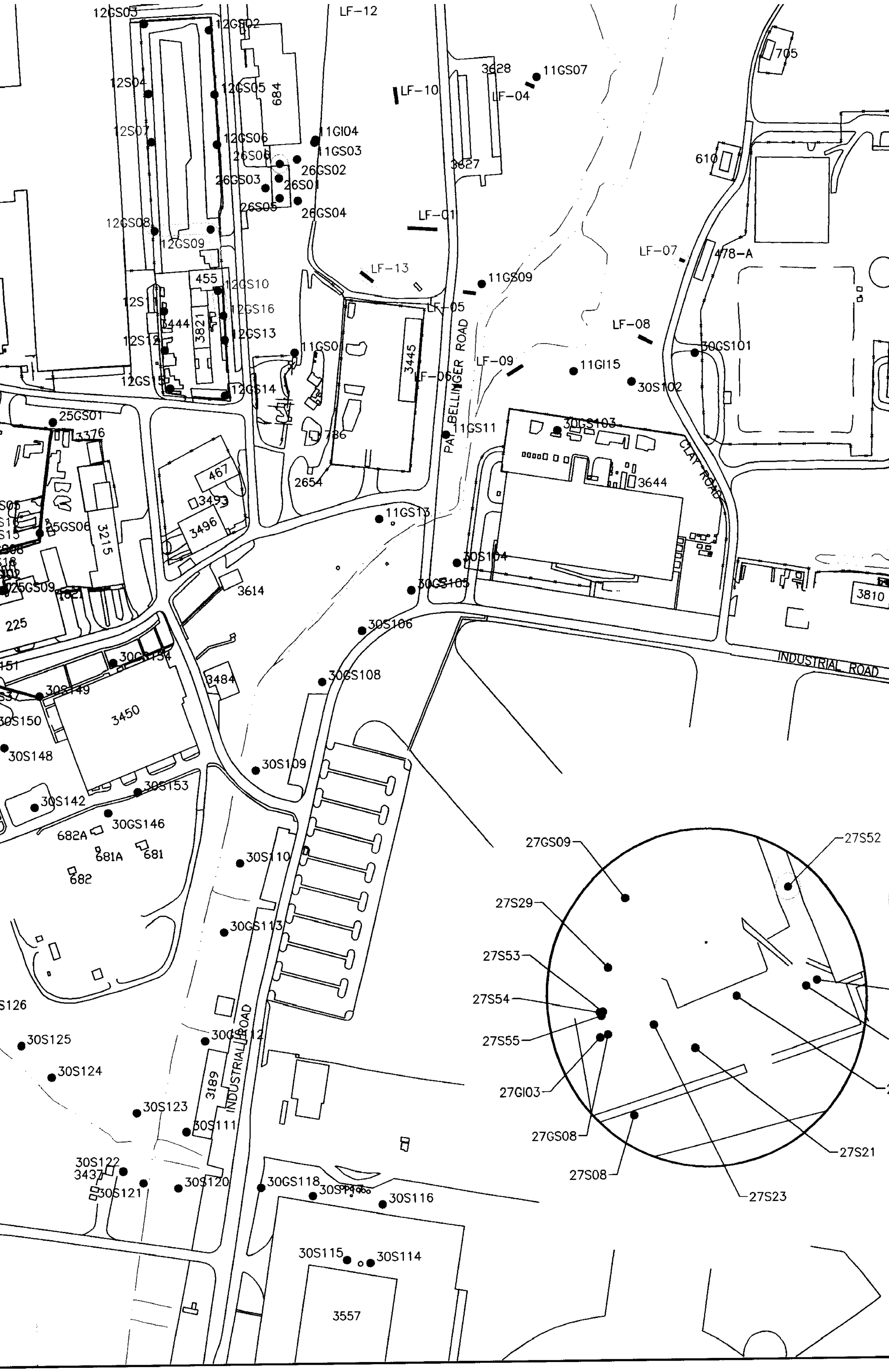
691
3261
3466
3252
a
GOLF
COURSE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11GS03
26S06
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26S01
26GS05
26GS04
12GS08
12GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
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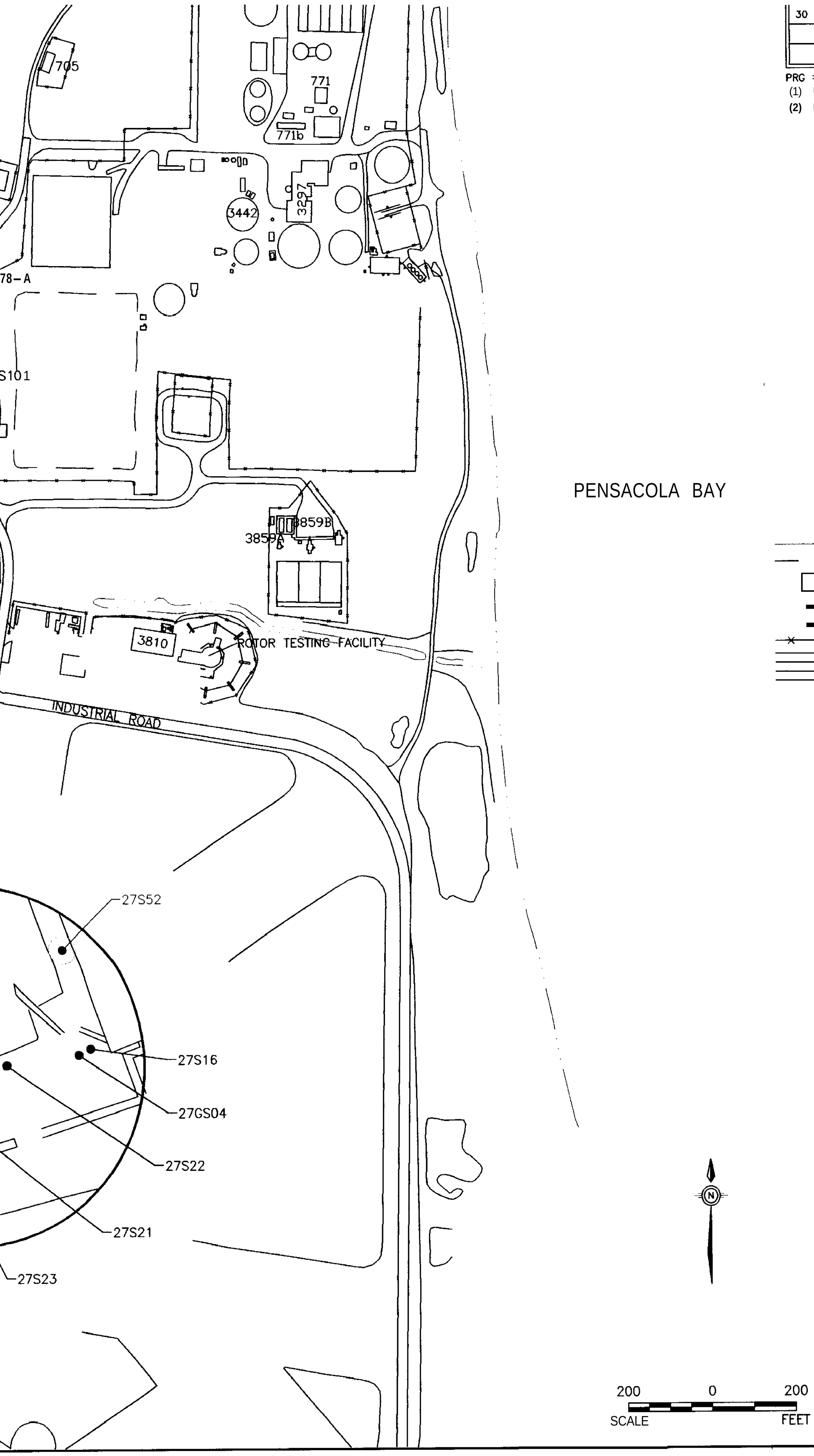
LF-06
LF-13
LF-05
LF-10
3628
11GS07
LF-04
3627
LF-01
11GS09
LF-09
11GI15
30S102
11GS11
PAT BELLINGER ROAD
705
610
478-A
LF-07
LF-08
30GS101
30GS103
CLAY ROAD
3644
25GS01
3376
467
3493
3496
2654
11GS13
25GS06
3215
30S104
30GS105
3614
225
30GS154
30S149
3484
30S150
3450
30S148
30S153
30S142
30GS146
682A
681A
681
682
30S106
30GS108
INDUSTRIAL ROAD
3810
30S109
30S110
30GS113
30S125
30GS112
30S124
3189
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S116
30S115
30S114
3557
27GS09
27S52
27S29
27S53
27S54
27S55
27GI03
27GS08
27S08
27S21
27S23

30		
	30S137	30-S-
	30S140	30-S-

PRG = PRELIMINARY REMEDIATION
(1) USEPA RISK-BASED CONCE
(2) FDEP CLEANUP GOAL



1. HI
ON
SC
GF
SE
2. J
3. AL
4. AL

30						
	305137	30-S-0137-01	1	4600		
	30S140	30-S-0140-01	1	16000	21000	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) FDEP CLEANUP GOAL

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SELECTED SURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SELECTED SURFACE SOIL SVOC EXCEEDANCES)

APPROXIMATE AREA OF SUBSURFACE SOIL BENZO[b]FLUORANTHRENE AND/OR BENZO[k]FLUORANTHENE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL N-NITROSO-di-n-PROPYLAMINE CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORING INDICATE THE PRESENCE OF ONE OR MORE SELECTED SEMIVOLATILE ORGANIC COMPOUND SURFACE SOIL EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY SELECTED SEMIVOLATILE ORGANIC COMPOUND SURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN $\mu g/kg$.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

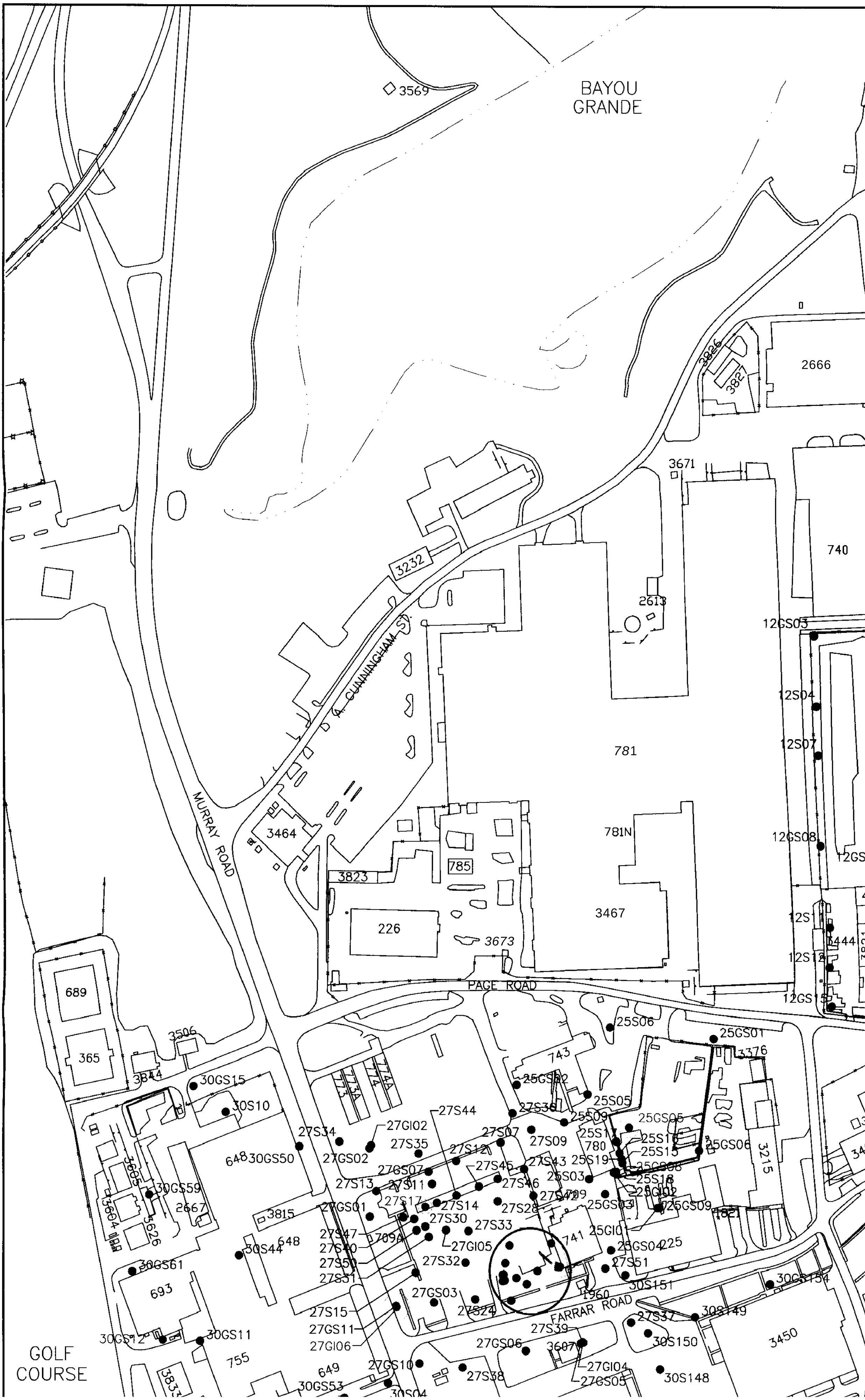
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 8
SELECTED SURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

Dr by K. BRONSON	Proj. Coder 0058-00038	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/08/97	DWG Name: 0590U2F9	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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3569
2666
3826
3827
3671
740
2613
12GS03
12S04
12S07
781
781N
12GS08
3232
A. CUNNINGHAM ST.
MURRAY ROAD
3464
785
3823
226
3467
3673
PAGE ROAD
689
365
3844
3506
30GS15
30S10
648
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30GS59
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3604
3626
3815
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693
30GS12
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755
649
30GS53
30S04
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27S34
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27S46
27S13
27S11
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27S14
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27S50
27S31
709A
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27GI06
27S24
27GS10
27S38
27GS06
27S39
3607
27GI04
27GS05
30S148
30S150
27S37
30S149
30GS154
30S151
1960
FARRAR ROAD
3450
741
25GI01
25GS04
225
27S51
25S06
25GS01
3376
743
25GS02
25S05
25S09
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25S17
780
25S16
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25GS06
3215
25S19
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3444
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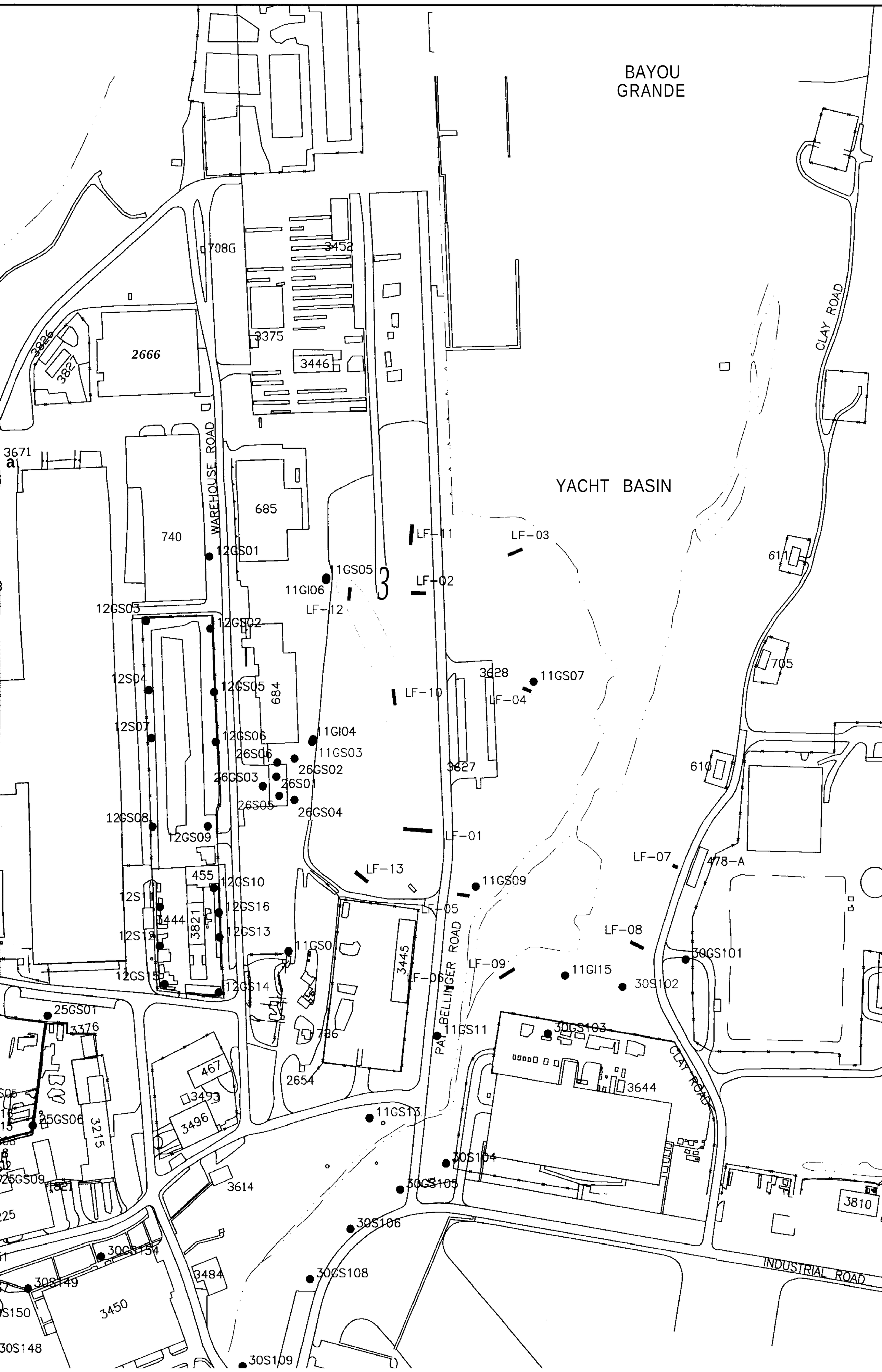
12GS15
GOLF COURSE


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
2666
3826
3827
3671
708G
3452
3375
3446
740
685
684
455
3821
3444
467
3493
3496
3215
3376
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LF-09
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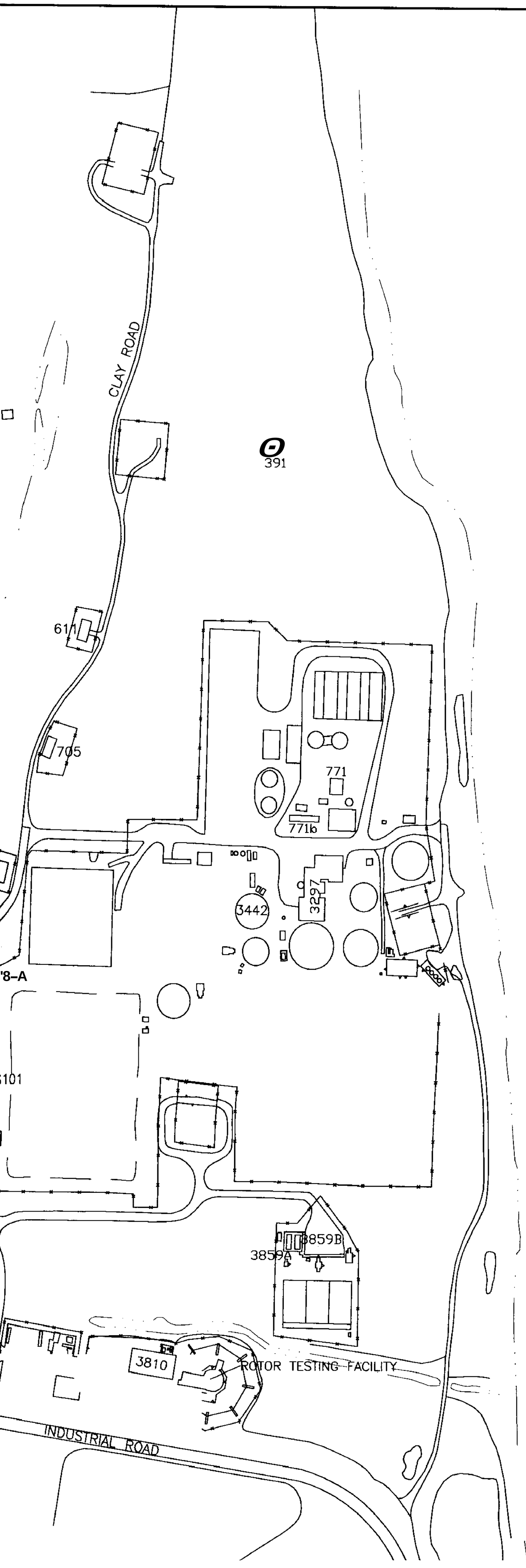


SUBSURFACE SOIL SEMIVOLATILE OR

Site	Location ID	Sample ID	Depth ft-bgs	Benzo [a] anthracene	Benzo [a] pyrene	Ben fluor
PRG (µg/kg)				700 (1)	3700 (2)	40
11						
	LF-01	11-S-LF01-09	9 1	960 J		
	LF-03	11-S-LF03-03	3 1	7400	4500 J	57
	LF-05	11-S-LF05-03	3 1	1100		
	LF-10	11-S-LF10-06	6	1400		
12						
	12GS14	12-S-0014-05	5	*700*		
27						
	27GS04	**27-S-0004-02**	2	**9500**	5600	130
	27S52	27-S-0052-02	2	1300 J		
30						
	30GS12	30-S-0012-20	20			
	305102	30-S-0102-02	2	1700		
	305110	30-S-0110-03	3			
	30S144	30-S-0144-18	18			

Site	Location ID	Sample ID	Depth ft-bgs	2,6-Dinitrotoluene	Hexachlorobutadiene	I
PRG (µg/kg)				0.6 (2)	100 (2)	
11						
	11GS03	11-S-S003-04	4	150 J		
	11GS03	11-S-S003-06	6	170 J		
	LF-03	11-S-LF03-03	3 1			
	LF-04	11-S-LF04-05	5			
	LF-05	11-S-LF05-03	3 1			
	LF-12	11-S-LF12-06	6			
25						
	25GS05	25-S-0010-14	14			
	25GS08	25-5-0112-14	14			
26						
	26GS05	26-S-0005-05	5			
27						
	27GS04	27-S-0004-02	2			
	27517	27-S-0017-06	6			
	27GI06	27-S-0049-62	62			
	27552	27-S-0052-02	2 1			
30						
	30GS06	30-S-0006-08	8		*350* J	
	305122	30-S-0122-03	3			
	30S144	30-S-0144-18	18			

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL
(2) FDEP CLEANUP GOAL FOR LEACHING

PENSACOLA BAY

SUBSURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

Location ID	Sample ID	Depth ft-bgs	Benzo [a] anthracene	Benzo [a] pyrene	Benzo [b] fluoranthene	Benzo [k] fluoranthene	bis (2-Ethylhexyl) phthalate	Carbazole	Chrysene	3,3-Dichlorobenzidine
(µg/kg)			***700*** (1)	**3700** (2)	**4000** (1)	**4000** (1)	11000 (2)	**400** ***(2)***	1000 (1)	10 (1)
LF-01	11-S-LF01-09	9	960 J							
LF-03	11-S-LF03-03	3	7400	4500 J	5700				6100	
LF-05	11-S-LF05-03	3	1100							
LF-10	11-S-LF10-06	6	1400							
12GS14	12-5-0014-05	5	700							
27GS04	**27-S-0004-02**	2	9500	***5600***	13000 J	13000 J		3000 J	6400	
27S52	27-S-0052-02	2	1300 J					530	1400 J	
30GS12	30-S-0012-20	20					58000			
30S102	30-S-0102-02	2	1700						1600 3	
30S110	30-S-0110-03	3								1400 J
30S144	30-S-0144-18	18					92000 E			

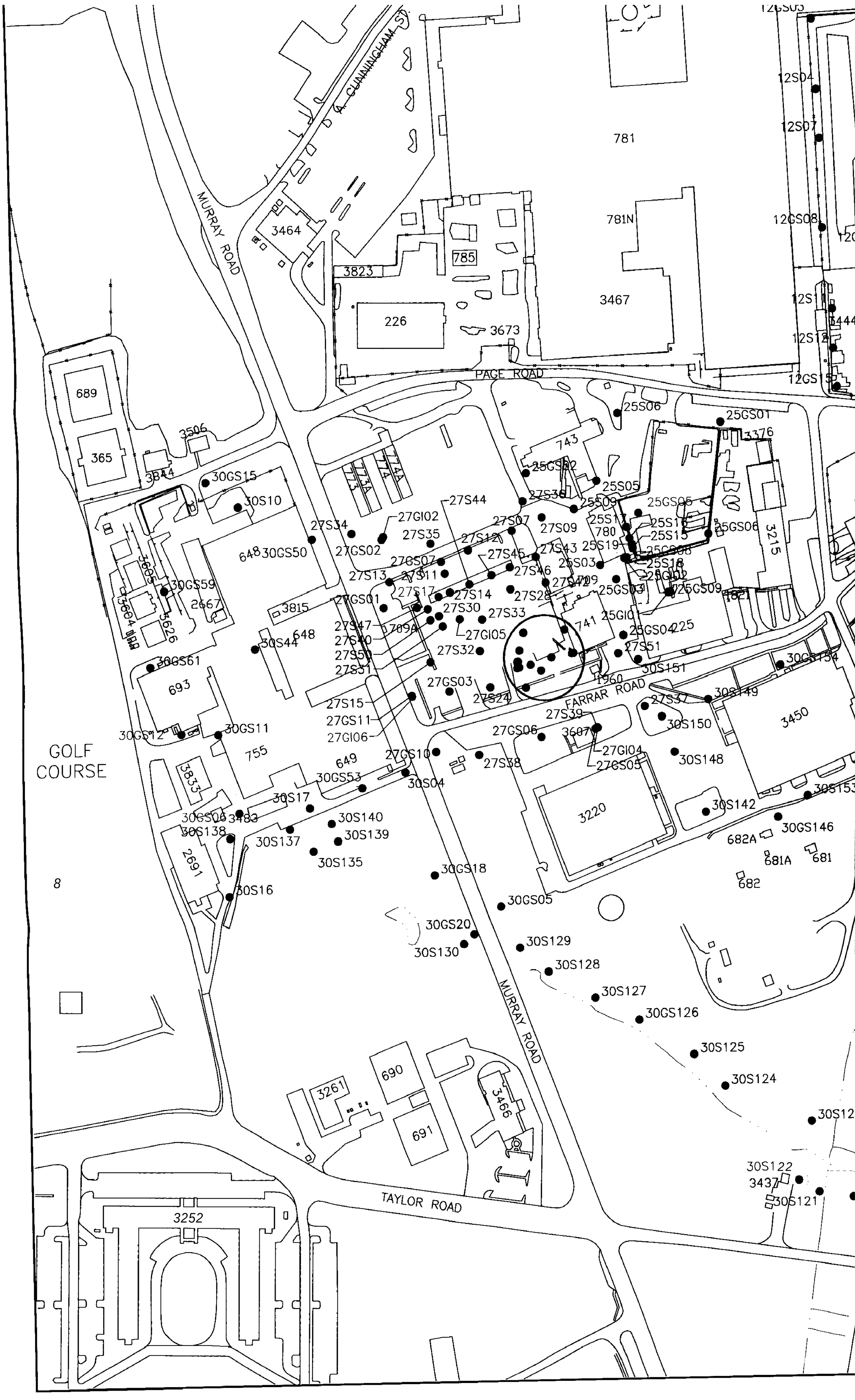
tion	Sample ID	Depth ft-bgs	2,6-Dinitrotoluene	Hexachlorobutadiene	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene	Pentachlorophenol	Phenol
			0.6 (2)	100 (2)	200 (1)	100 (2)	40 (2)	2800 (2)	10 (2)	20 (2)
S03	11-S-S003-04	4	150 J							
S03	11-S-S003-06	6	170 J							
03	11-S-LF03-03	3						11000		
04	11-S-LF04-05	5				1400 J				
05	11-S-LF05-03	3						4300		
12	11-S-LF12-06	6				14000 J				
S05	25-S-0010-14	14			340					
S08	25-S-0112-14	14							47 J	
S05	26-S-0005-05	5					350			
S04	27-S-0004-02	2				440 J		15000		
517	27-S-0017-06	6								66 3
G106	27-S-0049-62	62							270 J	
'$52	27-S-0052-02	2				140 J		2800 J		
GS06	30-S-0006-08	8		350 J		150 J				
5122	30-S-0122-03	3								39 J
5144	30-S-0144-18	18				2400 J				

LIMINARY REMEDIATION GOAL
SOIL SCREENING LEVEL
CLEANUP GOAL FOR LEACHING:

ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE


A. CUNNINGHAM ST.
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3464
3823
226
3673
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365
3506
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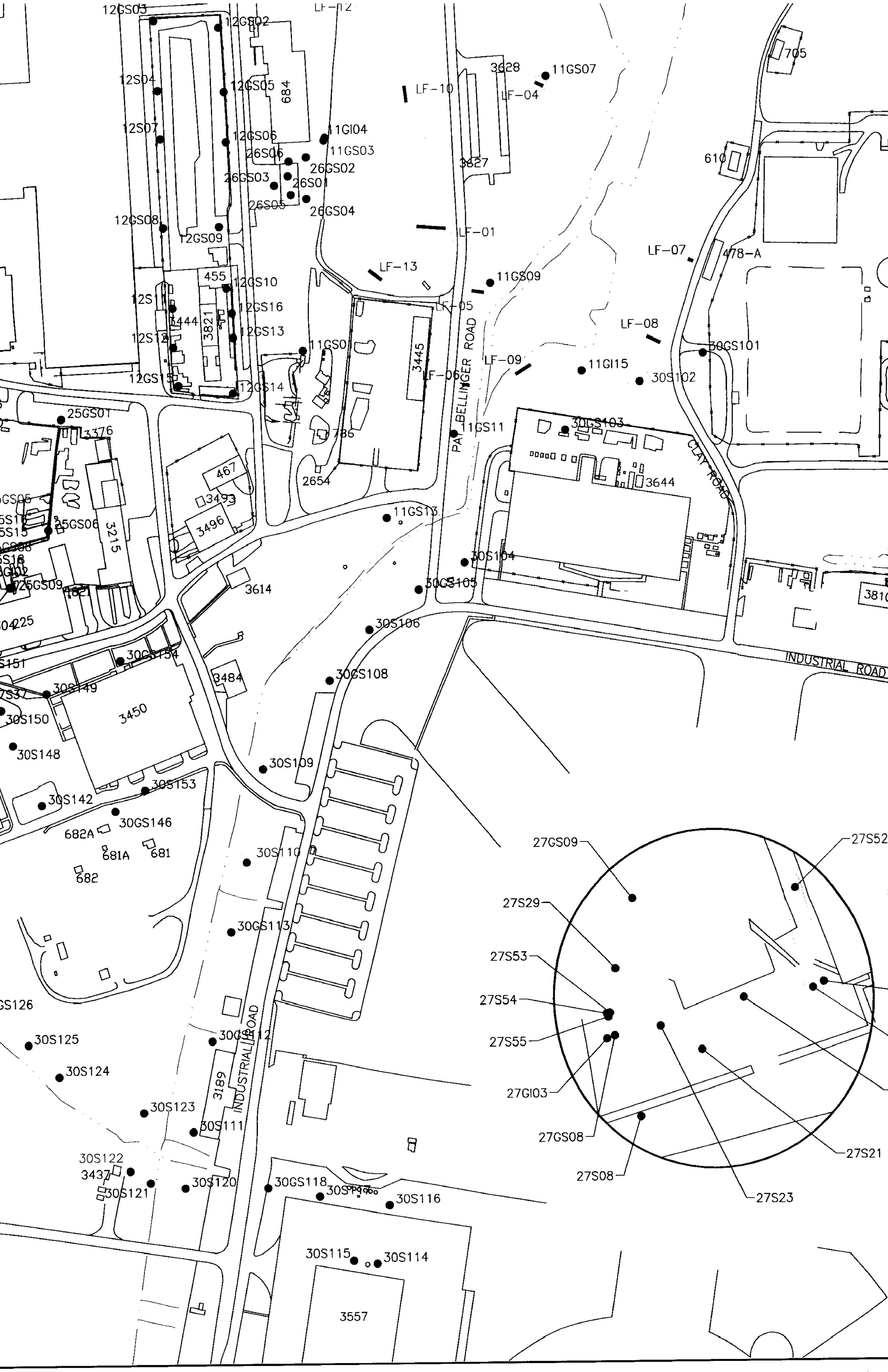
12GS15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LF-12
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12GS05
684
12S07
12GS06
11GI04
26S06
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26S01
26S05
26GS04
12GS08
12GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
11GS0
12GS15
12GS14
3445
LF-06
LF-10
3628
11GS07
LF-04
3627
LF-01
LF-13
LF-05
11GS09
LF-08
LF-09
11GI15
30GS101
30S102
705
610
LF-07
478-A
25GS01
3376
467
3493
3496
3215
25GS06
2654
736
11GS11
30GS103
3644
CLAY ROAD
11GS13
30S104
30GS105
3614
30S106
30GS108
3484
INDUSTRIAL ROAD
30S109
30S153
30S142
30GS146
682A
681A
681
682
30S110
30GS113
30S125
30S124
3189
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S116
30S115
30S114
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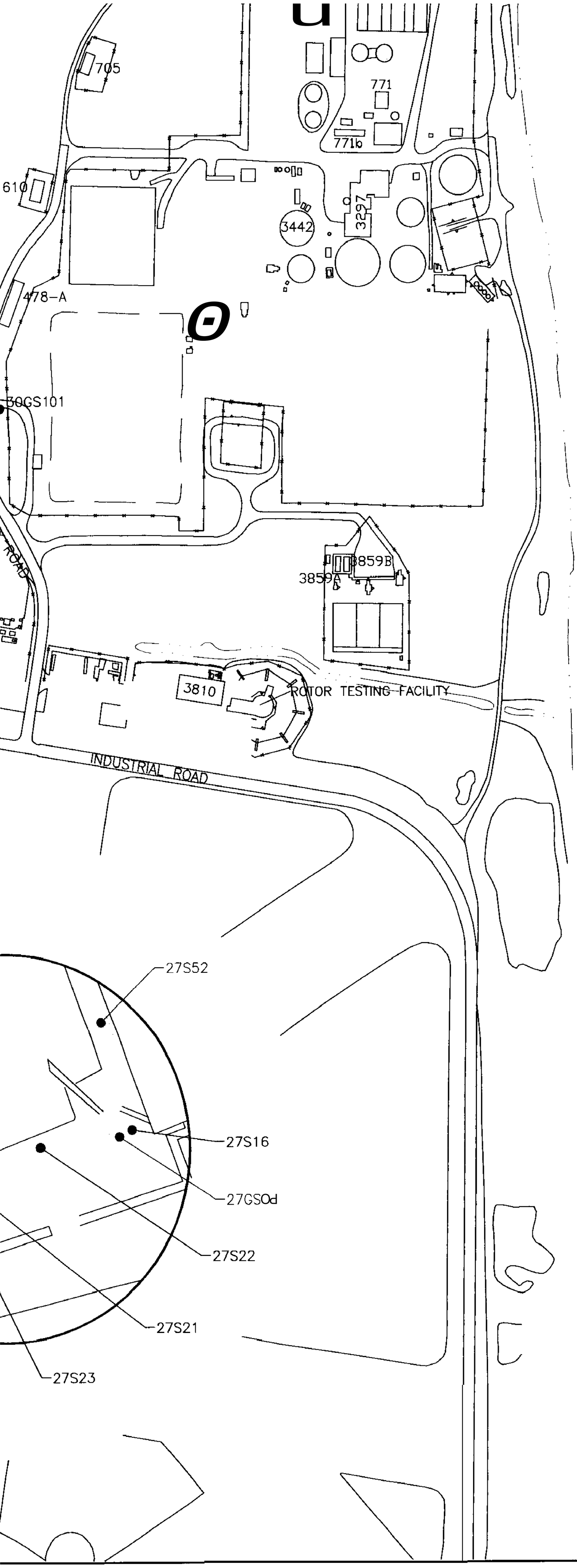
27GS08
27S08
27S21
27S23



Site	Location ID	Sample ID	Depth ft-bgs	2,6-Dinitrotoluene	Hexachlorobut
PRG (µg/kg)				0.6 (2)	100 (2)
11					
	11GS03	11-S-S003-04	4	150 J	
	11GS03	11-S-S003-06	6	170 J	
	LF-03	11-S-LF03-03	3		
	LF-04	11-S-LF04-05	5		
	LF-05	11-S-LF05-03	3		
	12-14	11-S-LF12-06	6		
25					
	25GS05	25-S-0010-14	14		
	25GS08	25-S-0112-14	14		
26					
	26GS05	26-S-0005-05	5		
27					
	27GS04	27-S-0004-02	2		
	27S17	27-S-0017-06	6		
	27GI06	27-S-0049-62	62		
	27S52	27-S-0052-02	2		
30					
	30GS06	30-S-0006-08	8		350 J
	30S122	30-S-0122-03	3		
	30S144	30-S-0144-18	18		

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL
(2) FDEP CLEANUP GOAL FOR LEACHING

PENSACOLA BAY

1. HIGHLIGHTED S
ONE OR MORE
SOIL EXCEEDAN
GRAY SOIL BO
ORGANIC COMP
2. J VALUE INDIC
3. ALL CONCENTR
4. ALL DEPTHS I

200 0 200
SCALE FEET

›cation ID	Sample ID	Depth ft–bgs	2,6–Dinitrotoluene	Hexachlorobutadiene	Isophorone	Naphthalene	Nitrobenzene	Phenanthrene	Pentachlorophenol	Phenol
‹g)			0.6 (2)	100 (2)	200 (1)	100 (2)	40 (2)	2800 (2)	10 (2)	20 (2)
1GS03	11–S–S003–04	4	150 J							
1GS03	11–S–S003–06	6	170 J							
F–03	11–S–LF03–03	3						11000		
F–04	11–S–LF04–05	5				1400 J				
F–05	11–S–LF05–03	3						4300		
F–12	11–S–LF12–06	6				14000 J				
5GS05	25–S–0010–14	14			340					
5GS08	25–S–011244	14							47 J	
6GS05	26–S–0005–05	5					350			
7GS04	27–S–0004–02	2				440 J		15000		
27S17	27–S–0017–06	6								66 J
7GI06	27–S–0049–62	62							270 J	
27S52	27–S–0052–02	2				140 J		2800 J		
0GS06	30–S–0006–08	8		350 J		150 J				
0S122	30–S–0122–03	3								39 J
0S144	30–S–0144–18	18				2400 J				

ELIMINARY REMEDIATION GOAL
SOIL SCREENING LEVEL
CLEANUP COAL FOR LEACHING

ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL SVOC EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL SVOC EXCEEDANCES)

APPROXIMATE ARE OF SUBSURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND CONCENTRATIQNS EXCEEDING USEPA SOIL SCREENING LEVELS, USEPA RISK–BASED CONCENTRATIONS, AND/OR FDEP CLEANING GOAL FUR LEACHING,

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE SEMIVOLATILE ORGANIC COMPOUND SUBSURFACE SOIL EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY SEMIVOLATILE ORGANIC COMPOUND SUBSURFACE SOIL EXCEEDANCES.
2. 3 VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN µg/kg.
4. ALL DEPTHS IN ft–bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 9
SUBSURFACE SOIL SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 0059–00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/07/97	DWG Name: 590U2F75	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES

3569
BAYOU
GRANDE
3826
3827
2666
3671
740
3232
2613
12GS03
12S04
12S07
781
781N
12GS08
12GS
3464
785
3823
3467
226
3673
3444
12GS15
689
365
3844
743
3376
774A
774
773A
773
25S17
780
25S16
25S15
25S18
3215
648
3605
3604
362
2667
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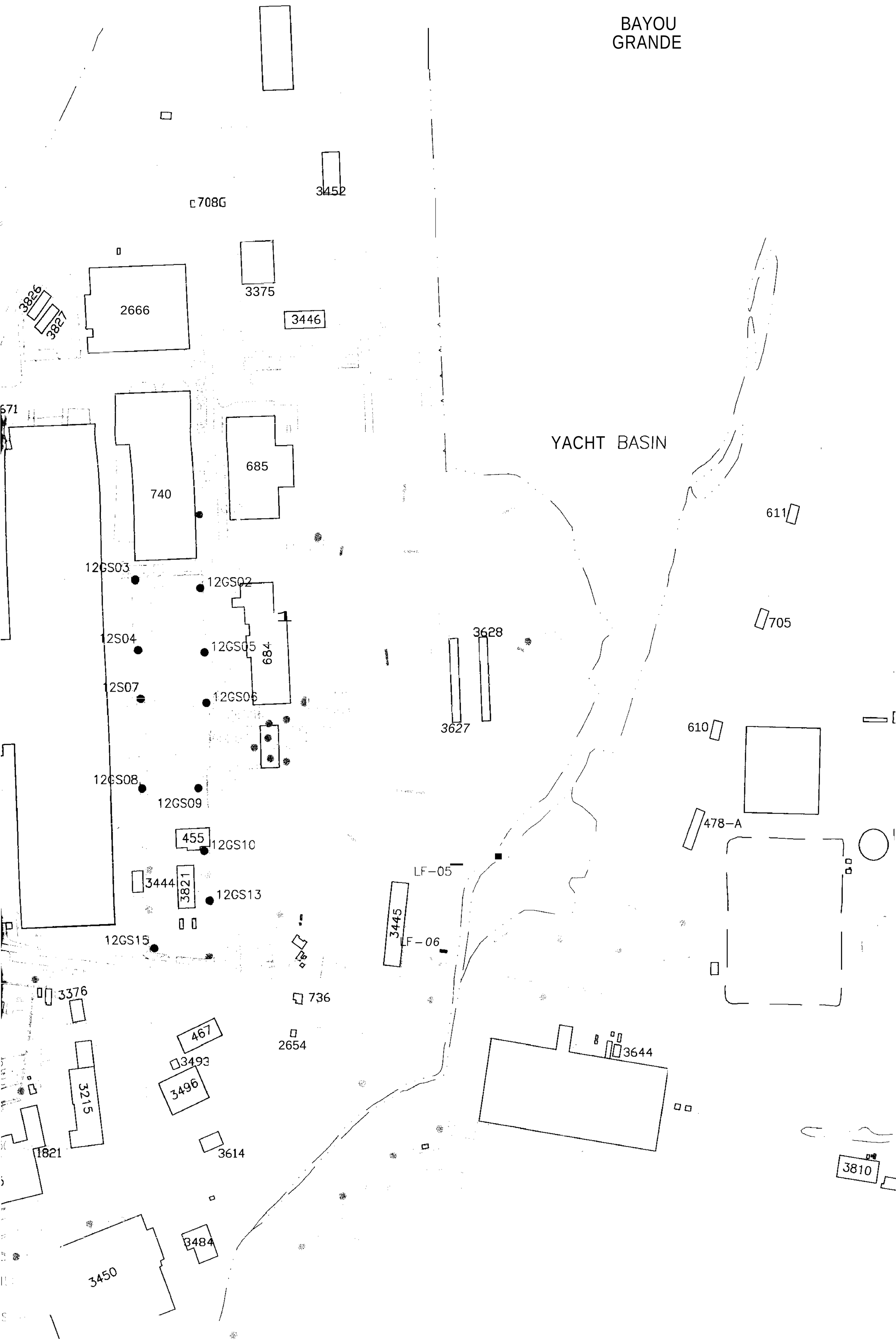
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
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708G
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12S04
12GS05
684
3628
12S07
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12GS08
12GS09
478-A
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12GS10
LF-05
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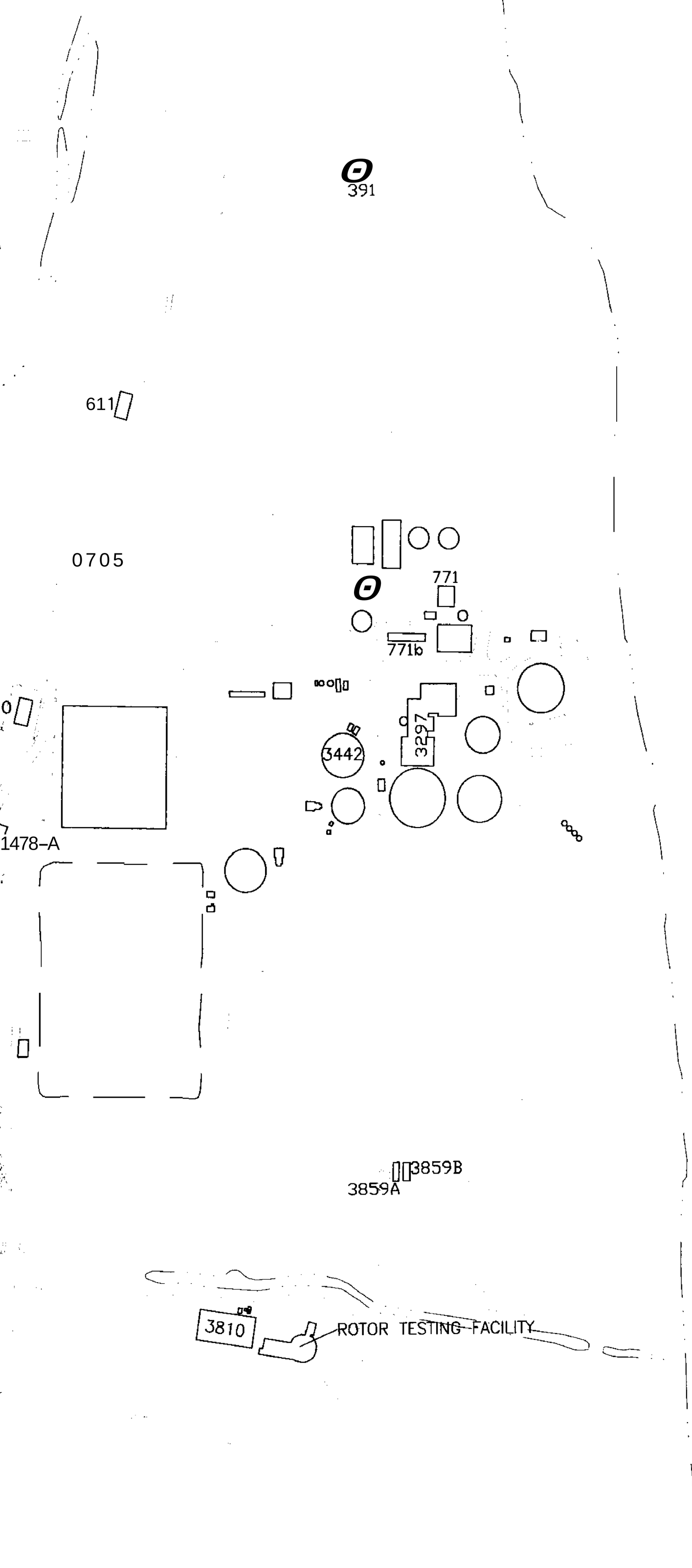


SURFACE SOIL PESTICIDE A

Site	Location ID	Sample ID	Depth ft-bgs	Aroclor 1242
PRG (µg/kg)				320 (1)
11				
	LF-05	11-S-RA05-01	1	
	LF-06	11-S-RA06-01	1	
12				
	12GS02	12-S-0002-01	1	
	12GS03	12-S-0003-01	1	
	12S04	12-S-0004-01	1	
	12GS05	12-S-0005-01	1	
	12GS06	12-S-0006-01	1	
	12507	12-S-0007-01	1	
	12GS08	12-S-0008-01	1	
	12GS09	12-S-0009-01	1	
	12GS10	12-S-0010-01	1	
	12GS13	12-S-0013-01	1	
	12GS15	12-S-0015-01	1	
25				
	25S15	25-S-S015-00	0	
	25S16	25-S-S016-00	0	
	25516	25-5-SO16-01	1	
	25517	25-S-S017-00	0	
	25S17	25-5-SO17-01	1	
	25S18	25-S-SOIS-00	0	
27				
	27GS01	27-S-0001-01	1	
	27GS06	27-S-0006-01	1	
	27552	27-S-0052-00	0	
30				
	305137	30-S-0137-01	1	
	305138	30-S-0138-01	1	10000

PRG = PRELIMINARY REMEDIATION GOAL

(1) USEPA RISK-BASED CONCENTRATIONS

PCB = POLYCHLORINATED BIPHENYLS

SURFACE SOIL PESTICIDE AND PCB EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Aroclor 1242	Aroclor 1254	Aroclor 1260	Dieldrin
PRG (µg/kg)				320 (1)	**320** (1)	**320** (1)	40 (1)
11							
	LF-05	11-S-RA05-01	1			350	
	LF-06	1I-S-RADS-01	1			1400 D	
12							
	12GS02	12-S-0002-01	1			**360**	
	12GS03	12-S-0003-01	1			1200	
	12S04	12-S-0004-01	1			4100	
	12GS05	12-S-0005-01	1			410 J	
	12GS06	12-S-0006-01	1			960	
	12507	32-S-0007-01	1			**15000**	
	12GS08	12-S-0008-01	1			12000	
	12GS09	12-S-0009-01	1			**3900**	
	12GS10	12-S-0010-01	1			390	
	12GS13	12-S-0013-01	1			1400	
	12GS15	12-S-0015-01	1			1300	
25							
	25S15	25-S-S015-00	0			1100	
	25516	25-S-S016-00	0			**31000**	71
	25S16	25-S-S016-01	1			**5700**	54 **3**
	25S17	25-S-S017-00	0		910	980	
	25S17	25-S-S017-01	1			**360**	
	25S18	25-S-S018-00	0		280 J	780	
27							
	27GS01	27-S-0001-01	1				800 D
	27GS06	27-S-0006-01	1				*360*
	27S52	27-S-0052-00	0				41
30							
	30S137	30-S-0137-01	1			410 J	
	30S138	30-S-0138-01	1	10000 DJ	1800 DJ	580 J	

PRG = **PRELIMINARY REMEDIATION GOAL**

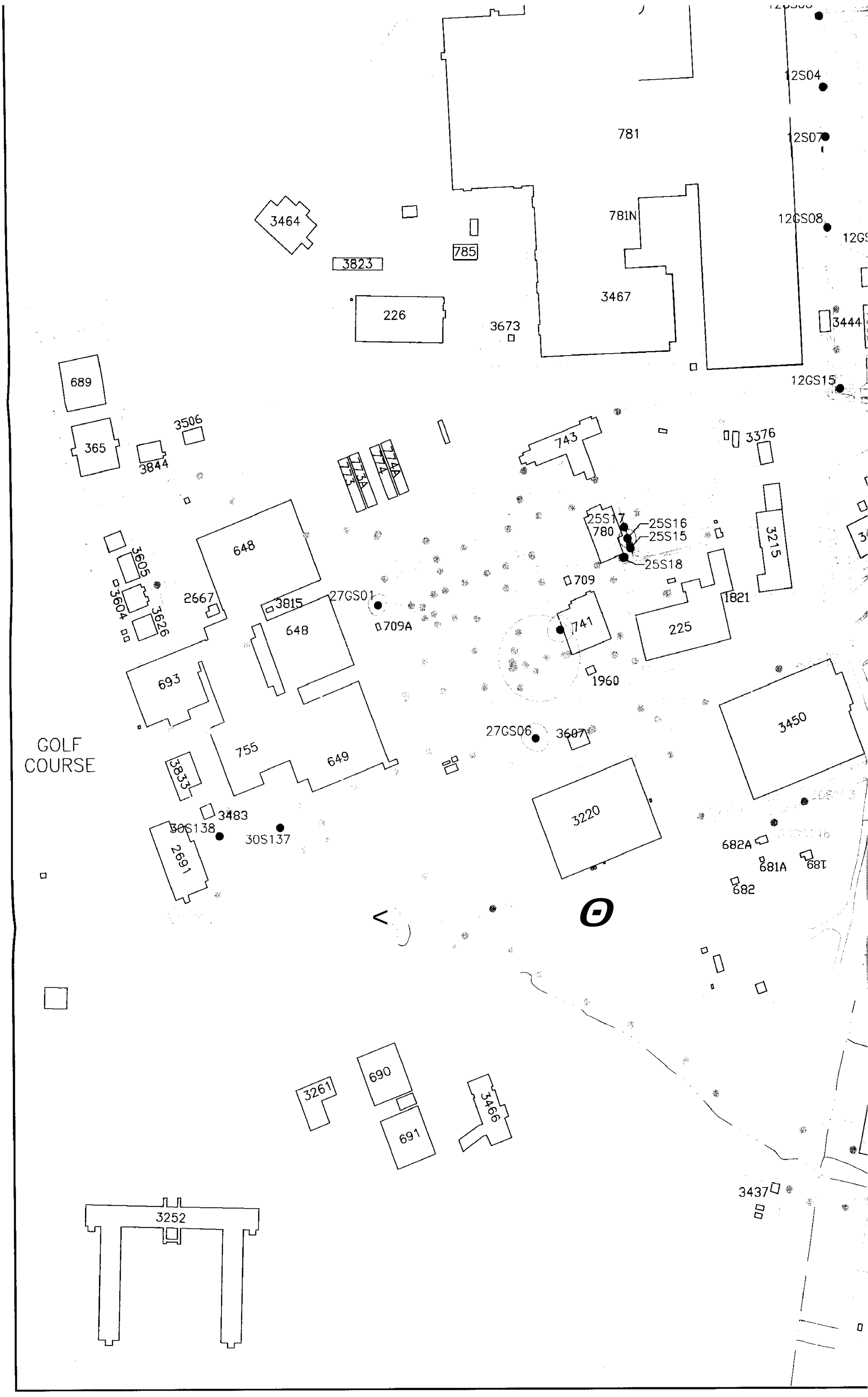
(1) **USEPA** RISK-BASED **CONCENTRATIONS**

PCB = **POLYCHLORINATED** BIPHENYLS

LEGEND

ENSACOLA BAY

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 — BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)
- TRENCH (CONCENTRATION EXCEEDS PRGs **AS** WELL TSCA CLEANUP THRESHOLD-NON RESTRICTED AREA OF 1000 ug/kg)
- FENCE LINE
- ROADS
- SIDEWALKS
- SOIL BORING
- SOIL BORING (EXHIBITING SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)
- SOIL BORING CONCENTRATION EXCEEDS PRGs **AS** WELL **AS** TSCA CLEANUP THRESHOLD-NON RESTRICTED AREA


12S04
781
12S07
781N
12GS08
3464
785
3823
3467
226
3673
3444
12GS15
689
365
3506
3844
743
3376
773
774
774A
25S17
780
25S16
25S15
25S18
3215
648
3605
3604
3626
2667
709
3815
27GS01
709A
741
1821
225
648
693
1960
3450
27GS06
3607
GOLF
COURSE
755
649
3833
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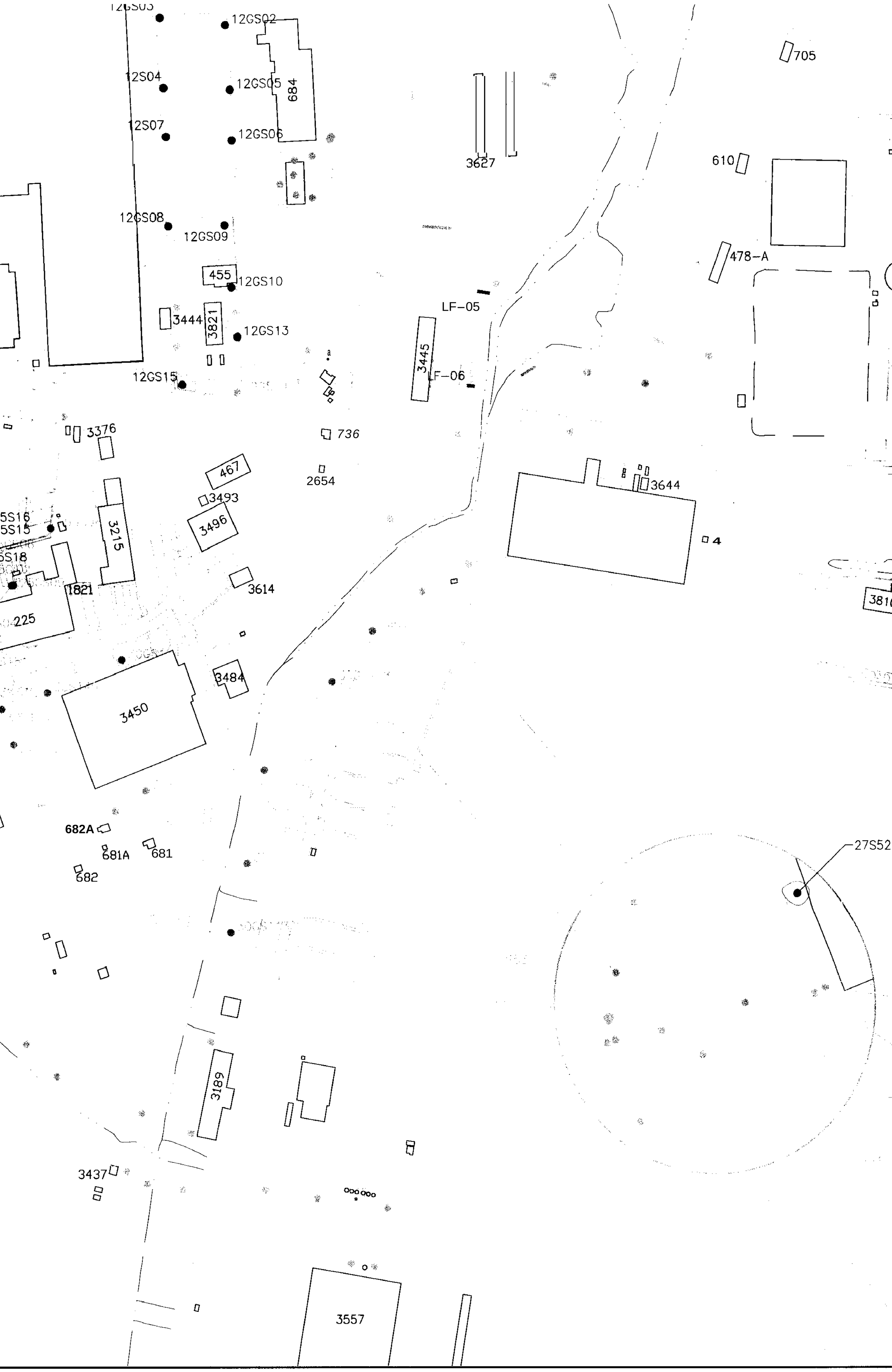
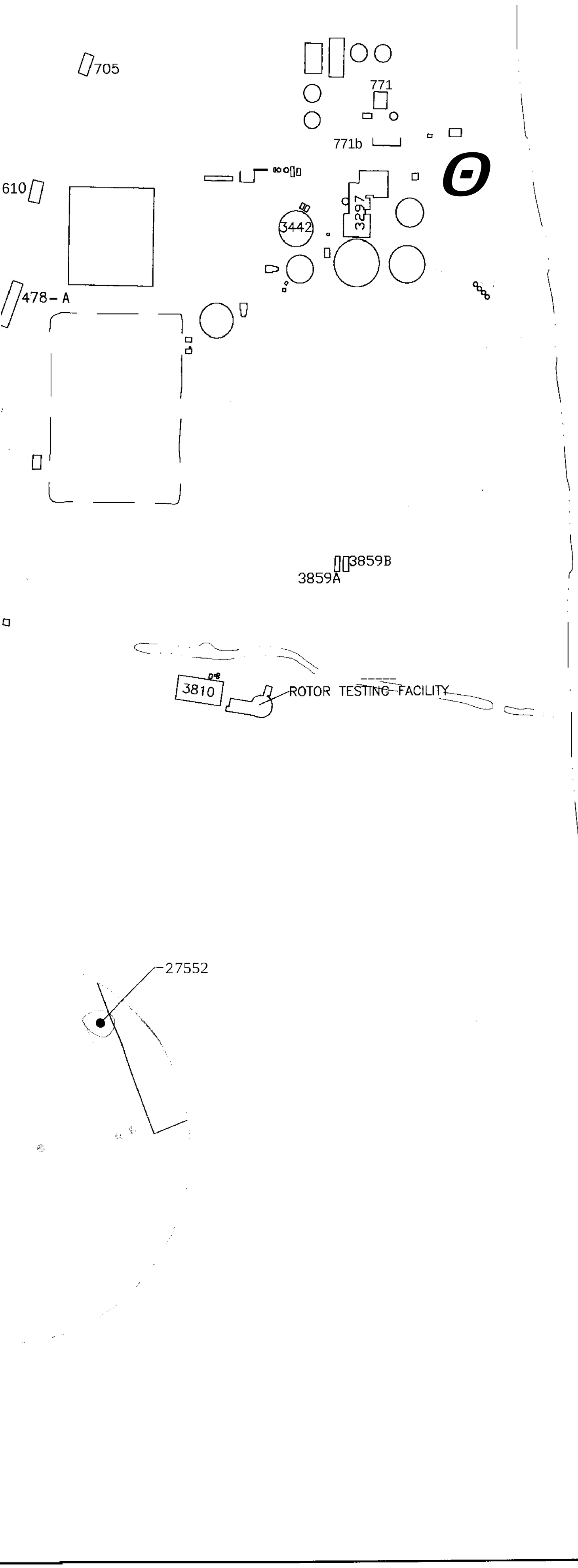

12GS03
12GS02
705
12S04
12GS05
684
12S07
12GS06
3627
610
12GS08
12GS09
478-A
455
12GS10
LF-05
3444
3821
12GS13
3445
LF-06
12GS15
3376
736
467
2654
3493
3644
5S16
5S15
3496
3215
4
5S18
1821
3614
225
3484
3450
682A
681A
681
682
27S52
3189
3437
3557

	25S17	25-S-S017-01	1	
	25S18	25-S-S018-00	0	
27				
	27GS01	27-S-0001-01	1	
	27GS06	27-S-0006-01	1	
	27S52	27-S-0052-00	0	
30				
	30S137	30-S-0137-01	1	
	30S138	30-S-0138-01	1	100

PRG = **PRELIMINARY REMEDIAION** GOAL

(1) USEPA RISK-BASED CONCENTRATIONS

PCB = POLYCHLORINATED BIPHENYLS



	25517	25-S-S017-01	1			360	
	25S18	25-S-S018-00	0		280 J	780	
27							
	27GS01	27-S-0001-01	1				800 D
	27GS06	27-S-0006-01	1				**360**
	27552	27-S-0052-00	0				41
30							
	30S137	30-S-0137-01	1			410 J	
	30S138	30-S-0138-01	1	10000 DJ	1800 DJ	***580*** J	

PRG = PRELIMINARY REMEDIATION GOAL

(1) USEPA RISK-BASED CONCENTRATIONS

PCB = POLYCHLORINATED BIPHENYLS

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL PESTICIDE **AND** PCB EXCEEDANCES)
- TRENCH (CONCENTRATION EXCEEDS PRGs **AS** WELL TSCA **CLEANUP** THRESHOLD-NON RESTRICTED **AREA** OF 1000 ug/kg)
- FENCE LINE
- ROADS
- SIDEWALKS
- SOIL BORING
- SOIL BORING (EXHIBITING SUBSURFACE SOIL PESTICIDE **AND** PCB EXCEEDANCES)
- SOIL BORING CONCENTRATION EXCEEDS PRGs **AS** WELL **AS** TSCA CLEANUP THRESHOLD-NON RESTRICTED AREA OF 1000 ug/kg
- APPROXIMATE **AREA** OF SURFACE SOIL AROCLOR 1242,1254, AND/OR 1260 CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.
- APPROXIMATE **AREA** OF SURFACE SOIL AROCLOR 1260 AND/OR DIELDRIN CONCENTRATIONS EXCEEDING BOTH THE USEPA SOIL SCREENING LEVEL **AND** THE USEPA RISK-BASED CONCENTRATIONS.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE PESTICIDES AND /OR PCB SURFACE SOIL EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY PESTICIDES AND/OR PCB SURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. D VALUE INDICATES CONCENTRATION DERIVED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS IN $\mu g/kg$.
5. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200

SCALE FEET

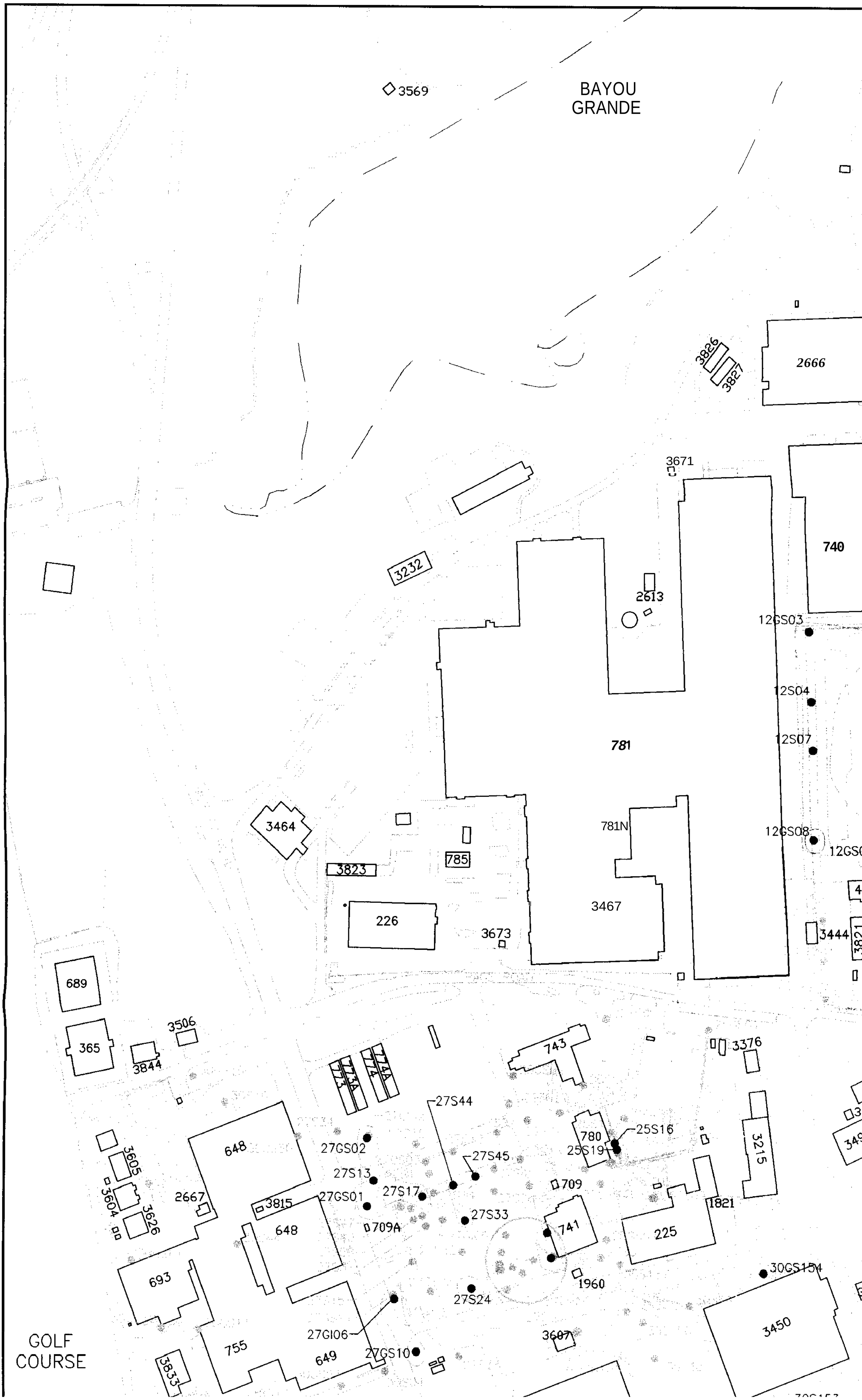
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 10
SURFACE SOIL PESTICIDE
AND PCB EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1 Of 1
Date: 07/05/97	DWG Name: 590U2F76	

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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BAYOU
GRANDE
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3671
740
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2613
12GS03
12S04
12S07
781
3464
781N
12GS08
785
3823
3467
226
3673
3444
689
365
3506
3844
743
3376
773
773A
774
774A
27S44
25S16
780
25S19
27GS02
27S45
3215
27S13
27S17
709
27GS01
3815
27S33
1821
3605
3604
3626
2667
709A
741
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27GI06
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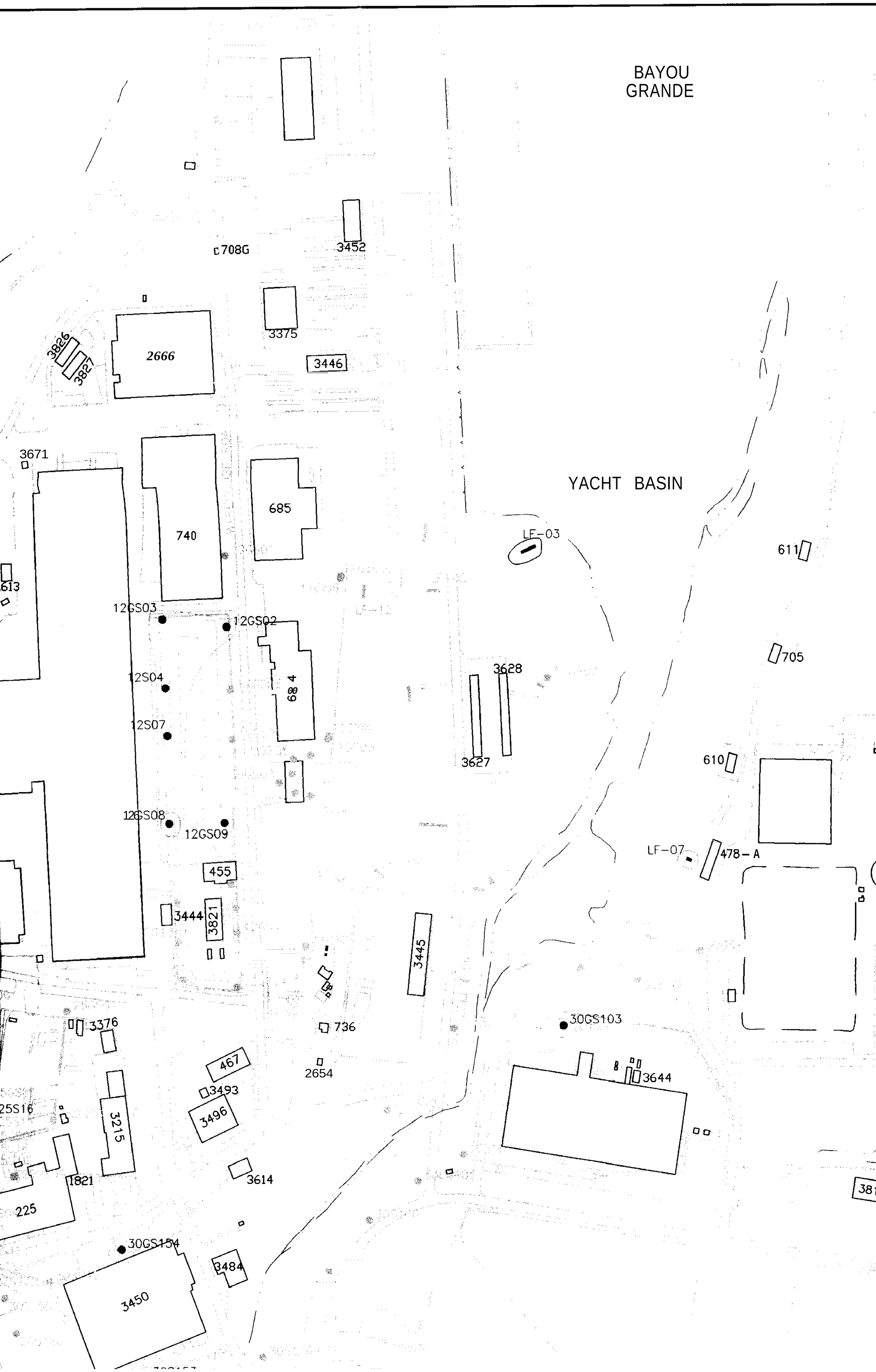
649
27GS10
3833
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
708G
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3826
3827
2666
3671
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685
613
12GS03
12GS02
12S04
684
12S07
12GS08
12GS09
455
3444
3821
3445
736
3376
467
2654
3493
3496
25S16
3215
1821
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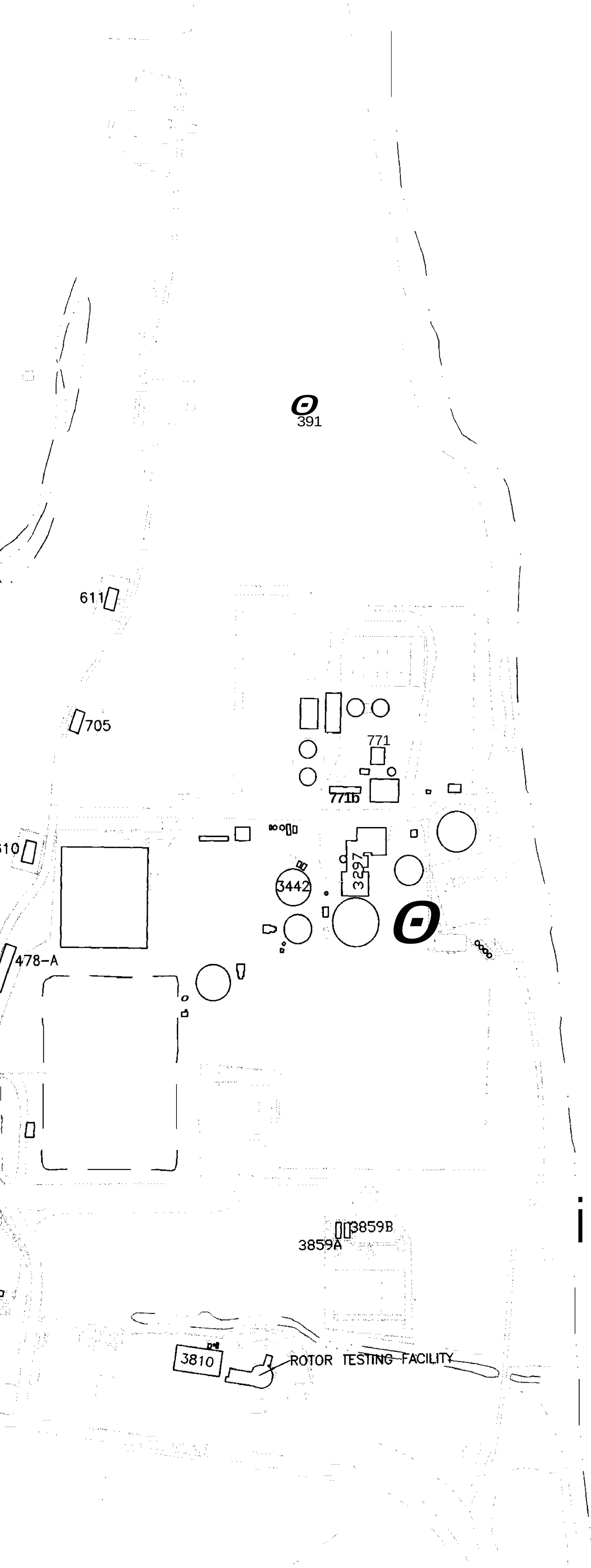


SUBSURFACE SOIL PESTIC					
Site	Location ID	Sample ID	Depth ft-bgs	4,4'-DDD	4
PRG (µg/kg)				200 (1)	2
11					
	LF-03	11-S-LF03-08	8		
	LF-07	11-S-LF07-07	7 1		
12					
	12GS02	12-S-0002-05	5		
	12GS03	12-S-0003-05	5		
	12GS03	12-S-0003-15	15		
	12S04	12-S-0004-05	5		
	12S07	12-S-0007-05	5		
	12GS08	12-S-0008-14	14	240	
	12GS09	12-s-0009-05	5		
25					
	25S16	25-S-0016-02	2		
	25S19	25-S-0019-02	2		
	25S19	25-S-0019-04	4		
27					
	27GS01	27-S-0001-06	6		
	27GS02	27-S-0002-02	2		
	27GS04	27-S-0004-02	2		
	27S13	27-S-0013-04	4 1		
	27S17	27-S-0017-02	2		
	27S17	27-S-0017-04	4		
	27S17	27-S-0017-06	6		
	27S24	27-S-0024-02	2		
	27S33	27-S-0033-20	20		
	27GS10	27-S-0041-02	2		
	27S44	27-S-0044-02	2		
	27S45	27-S-0045-02	2		
	27GI06	27-S-0049-02	2		
	27S52	27-S-0052-02	2		
	27S52	27-S-0052-04	4		
30					
	30GS05	30-S-0005-02	2		
	30GS103	30-S-0103-04	4		
	30S117	30-S-0117-04	4		
	30S122	30-S-0122-03	3		
	30S123	30-S-0123-04	4		
	30S125	30-S-0125-03	3		
	30S126	30-S-0126-06	6		
	30S127	30-S-0127-03	3		
	30S127	30-S-0127-05	5		
	30S153	30-5-0153-11	11		
	30GS154	30-S-0154-02	2		
	30GS154	30-S-0134-06	6		

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL
PCB = POLYCHLORINATED BIPHENYLS

743

4,4'-DDD
4,4'-DDE
4,4'-DDT
ALPHA-B
GAMMA-

SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES

Site	Location ID	Sample ID	Depth ft–bgs	4,4'–DDD	4,4'–DDE	4,4'–DDT	Dieldrin	alpha–BHC	gamma–BHC (lindane)
PRG (µg/kg)				200 (1)	200 (1)	500 (1)	1 (2)	0.4 (2)	6 (1)
11									
	LF–03	11–S–LF03–08	8				26 J	3.7 3	6+6 J
	LF–Q7	11–S–LF07–07	7		230 D	2800 D			
12									
	12GS02	12–S–0002–05	5				2+9 3		
	12GS03	12–S–0003–05	5				1.5 J		
	t2GS03	12–S–0003–15	15				1.6 J		
	12S04	12–S–0004–05	5				1 J		
	12507	12–S–0007–05	5				1.1 J		
	12GS08	12–S–0008–14	14	240					
	12GS09	12-5-0009-05	5				3.3 3		
25									
	25S16	25–S–0016–02	2				27		
	25S19	25–S–0019–02	2				6.8		
	25S19	25–S–0019–04	4				11		
27									
	27GS01	27–S–0001–06	6				16 3		
	27GS02	27–S–0002–02	2				1.4 J		
	27GS04	27–5–0004–02	2				11 J		
	27S13	27–S–0013–04	4				2 J		
	27S17	27–S–0017–02	2				3.8		
	27S17	27–S–0017–04	4 1				1.3 J		
	27517	27–S–0014–06	6				9.1		
	27524	27–S–0024–02	2				1.9 J		
	27533	27–S–0033–20	20				1.4 J		
	27GS10	27–5–0041–02	2				2 J		
	27544	27–S–0044–02	2				3.9		
	27545	27–S–0045–02	2				1.8 J		
	27GI06	27–S–0049–02	2				47		
	27552	27–S–0052–02	2				19		
	27S52	27–S–0052–04	4 1				3.5 J		
30									
	30GS05	30–S–0005–02	2				39		
	30GS103	30–S–0103–04	4				4.4 J		
	305117	30–5–0117–04	4				6.1		
	30S122	30–S–0122–03	3				9.1		
	30S123	30–S–0123–04	4				17		
	30S125	30–S–0125–03	3 1				31 J		
	30S126	30–S–0126–06	6				40		
	30S127	30–S–0127–03	3				85 D		
	305127	30–S–0127–05	5				7.2		
	30S153	30–S–0153–11	11				4.9		
	30GS154	30–S–0154–02	2				64 DJ		
	30GS154	30–S–0154–06	6				28		

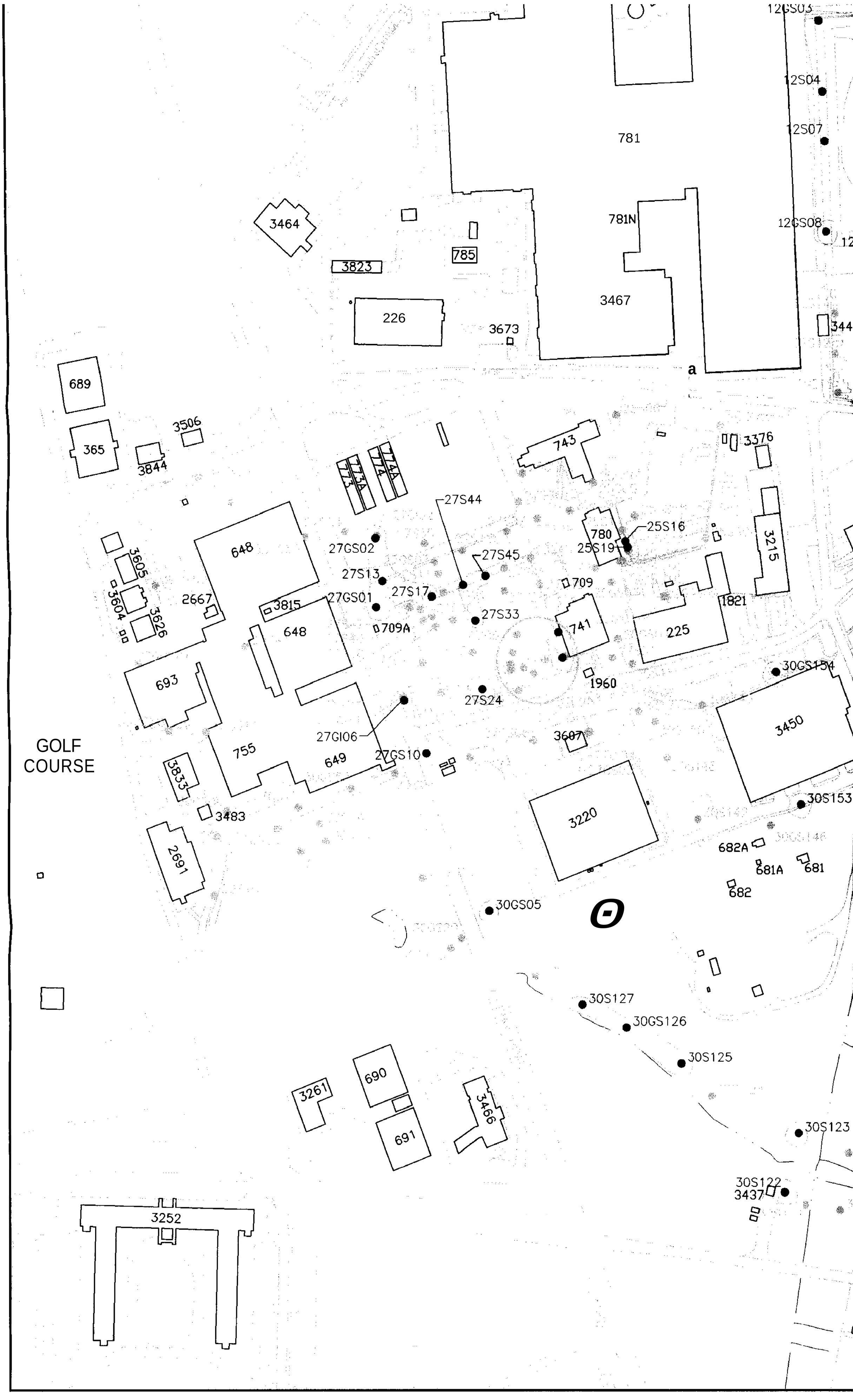
PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL
PCB = POLYCHLORINATED BIPHENYLS

LEGEND

SACOLA BAY

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)

4,4'–DDD 4,4–DICHLORODIPHENYLDICHLOROETHANE
4,4'–DDE 4,4–DICHLORODIPHENYLDICHLOROETHYLENE
4,4'–DDT 4,4–DICHLORODIPHENYLTRICHLOROETHANE
ALPHA–BHC alpha–BENZENE HEXACHLORIDE
GAMMA–BHC gamma–BENZENE HEXACHLORIDE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12S04
12S07
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781N
12GS08
3464
3823
785
3467
226
3673
344
689
365
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743
3376
773A
774A
27S44
780
25S16
25S19
3215
648
27GS02
27S45
27S13
27S17
709
3605
3604
3626
2667
3815
27GS01
27S33
741
1821
709A
225
693
1960
30GS154
27S24
3450
27GI06
3607
755
649
27GS10
3833
3483
30S153
3220
682A
681A
681
682
2691
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30S125
690
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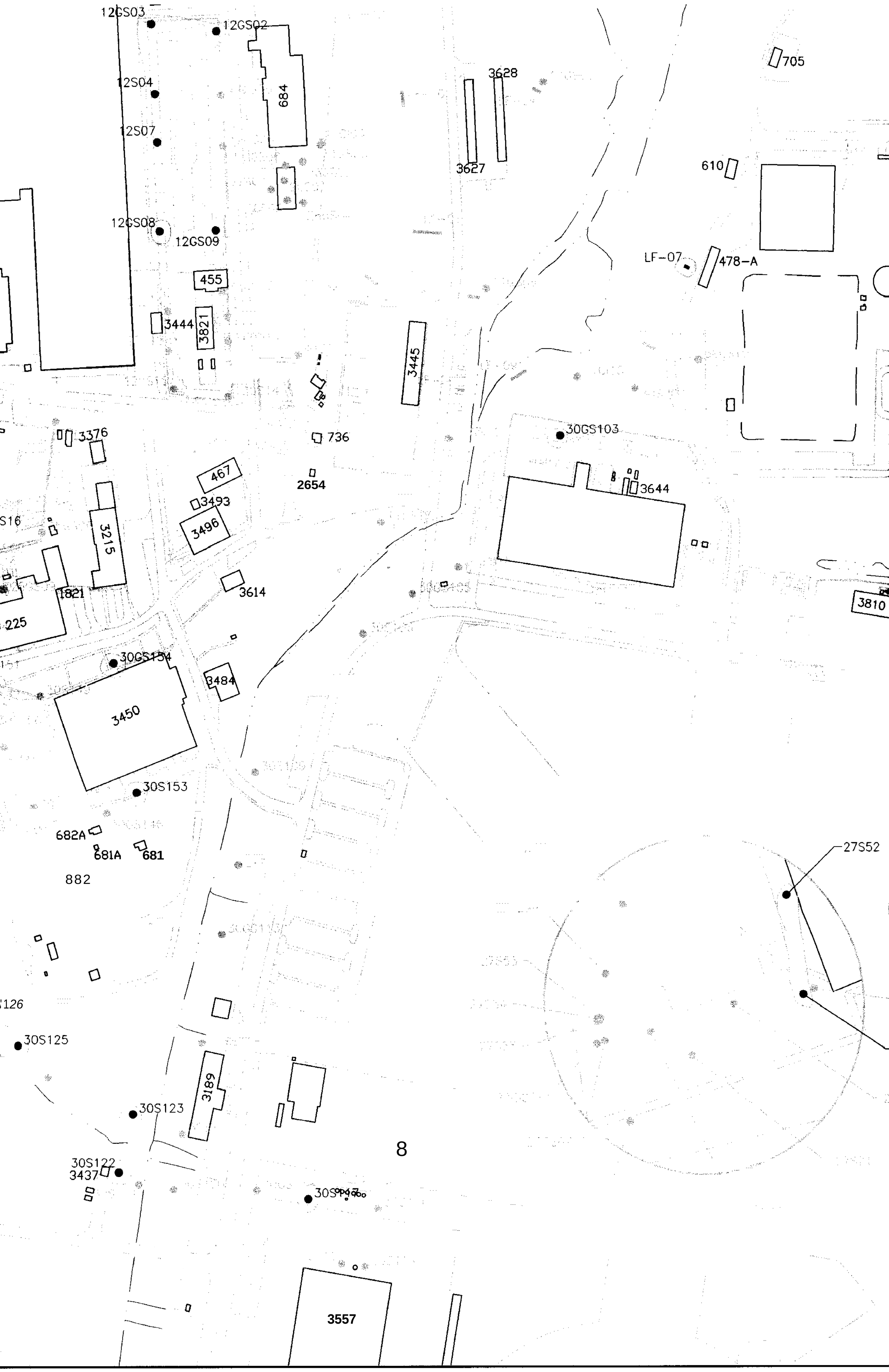
3466
30S123
30S122
3437
3252
GOLF
COURSE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3627
705
610
12GS08
12GS09
LF-07
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3821
3445
3376
736
30GS103
467
2654
3493
3644
3496
3215
1821
3614
3810
225
30GS154
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681A
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27S52
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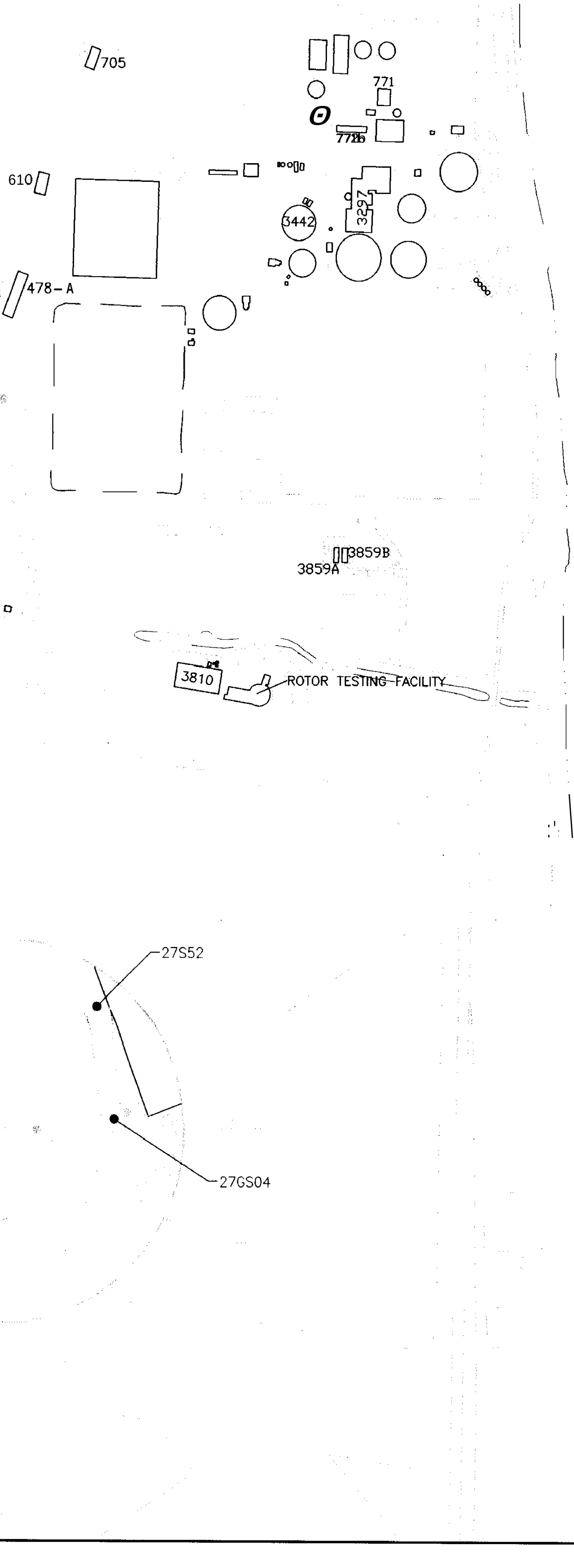
3189
30S123
30S122
3437
3557



	27S33	27-S-0033-20	20	
	27GS10	27-S-0041-02	2	
	27S44	27-S-0044-02	2	
	27S45	27-S-0045-02	2	
	27GI06	27-S-0049-02	2	
	27S52	27-S-0052-02	2	
	27S52	27-S-0052-04	4	
30				
	30GS05	30-S-0005-02	2	
	30GS103	30-S-0103-04	4	
	30S117	30-S-0117-04	4	1
	30S122	30-S-0122-03	3	
	30S123	30-S-0123-04	4	
	30S125	30-S-0125-03	3	
	30S126	30-S-0126-06	6	
	30S127	30-5-0127-03	3	
	30S127	30-S-0127-05	5	
	30S153	30-S-0153-11	11	
	30GS154	30-S-0154-02	2	
	30GS154	30-S-0154-06	6	

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL
PCB = POLYCHLORINATED BIPHENYLS

743

PENSACOLA BAY

4,4'-DD
4,4'-DD
4,4'-DD
ALPHA-
GAMMA-

1. HIGHLIGHT
ONE OR
GRAY SOI
AND/OR
2. J VALUE
3. D VALUE
4. ALL CONC
5. ALL DEPT

200 0 200
SCALE FEET

	27GS10	27-S-0041-02	2				2 J		
	27S44	27-S-0044-02	2				3.9		
	27S45	27-S-0045-02	2				1.8 J		
	27GI06	27-5-0049-02	2				47		
	27552	27-S-0052-02	2				19		
	27552	27-S-0052-04	4 1				3.5 J		
30									
	30GS05	30-S-0005-02	2				39		
	30GS103	30-5-0103-04	4				4.4 J		
	30S117	30-S-0117-04	4				6.1		
	30S122	30-S-0122-03	3				9.1		
	30S123	30-S-0123-04	4				17		
	30S125	30-S-0125-03	3				31 J		
	30S126	30-S-0126-06	6				40		
	30S127	30-S-0127-03	3				85 D		
	30S127	30-S-0127-05	5				7.2		
	30S153	30-S-0153-11	11				4.9		
	30GS154	30-S-0154-02	2				64 DJ		
	30GS154	30-S-0154-06	6				28		

PRG = PRELIMINARY REMEDIATION GOAL
(1) FDEP CLEANUP GOAL FOR LEACHING
(2) USEPA SOIL SCREENING LEVEL
PCB = POLYCHLORINATED BIPHENYLS

ACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL PESTICIDE AND PCB EXCEEDANCES)

4,4'-DDD	4,4-DICHLORODIPHENYLDICHLOROETHANE
4,4'-DDE	4,4-DICHLORODIPHENYLDICHLOROETHYLENE
4,4'-DDT	4,4-DICHLORODIPHENYLTRICHLOROETHANE
ALPHA-BHC	alpha-BENZENE HEXACHLORIDE
GAMMA-BHC	gamma-BENZENE HEXACHLORIDE

APPROXIMATE AREA OF SUBSURFACE SOIL DIELDRIN CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL,

APPROXIMATE AREA OF SUBSURFACE SOIL 4,4'-DDD, 4,4'-DDE, AND/OR 4,4'-DDT CONCENTRATIONS EXCEEDING THE FDEP CLEANUP GOAL FOR LEACHING.

APPROXIMATE AREA OF SUBSURFACE SOIL DIELDRIN AND alpha-BHC CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVELS AND gamma-BHC CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL AND FDEP CLEANUP GOAL FOR LEACHING.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE PESTICIDE AND/OR PCB SUBSURFACE SOIL EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY PESTICIDE AND/OR PCB SUBSURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DERIVED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS IN $\mu g/kg$.
5. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

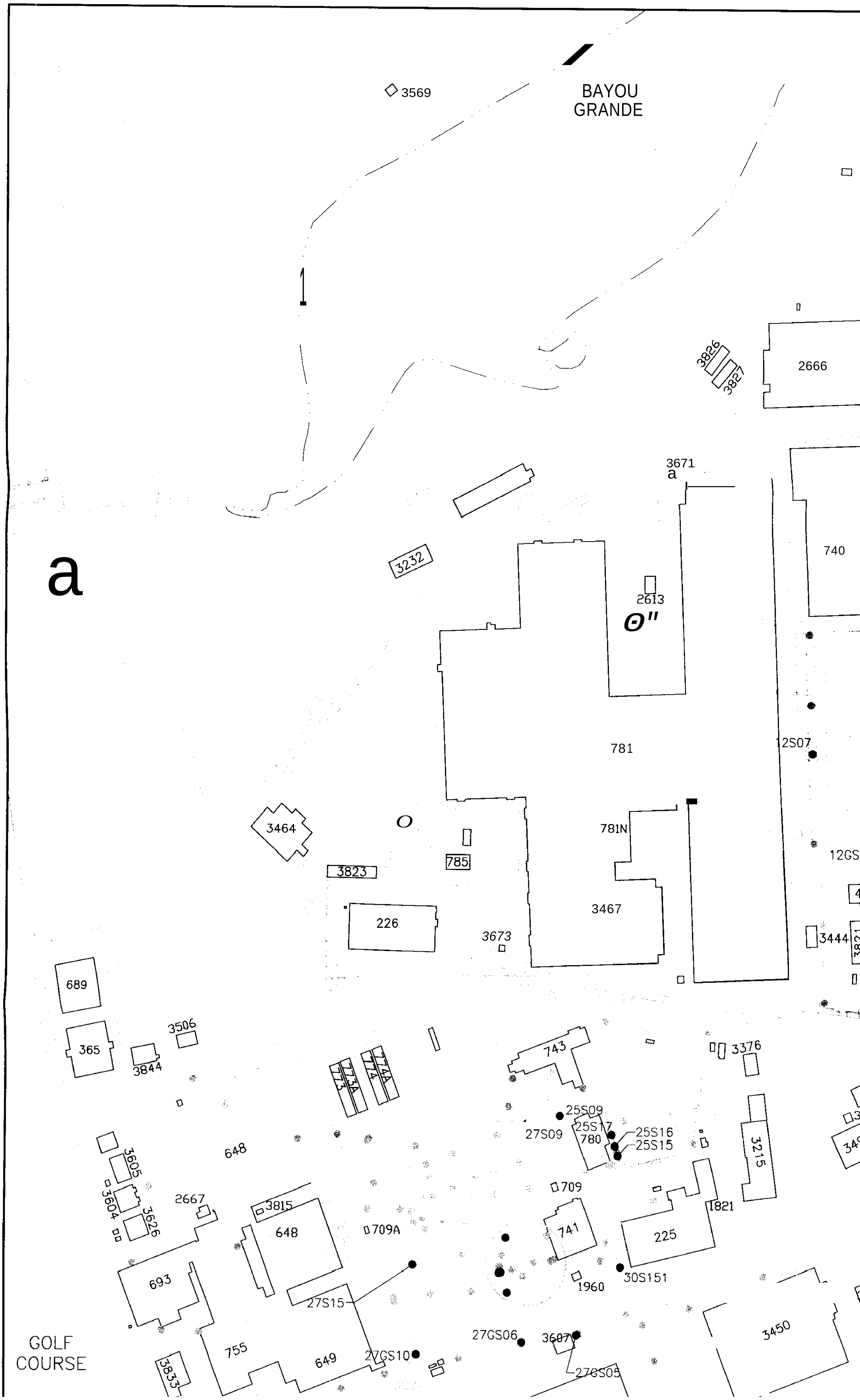
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 11
SUBSURFACE SOIL PESTICIDE
AND PCB EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/05/97	DWG Name: 590U2PPE	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
3826
3827
2666
3671
a
740
3232
2613
781
12S07
781N
3464
785
3823
3467
226
3673
3444
689
365
3506
3844
743
3376
773A
774A
25S09
27S09
25S17
780
25S16
25S15
3215
648
3605
3604
3626
2667
3815
709
709A
741
1821
225
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1960
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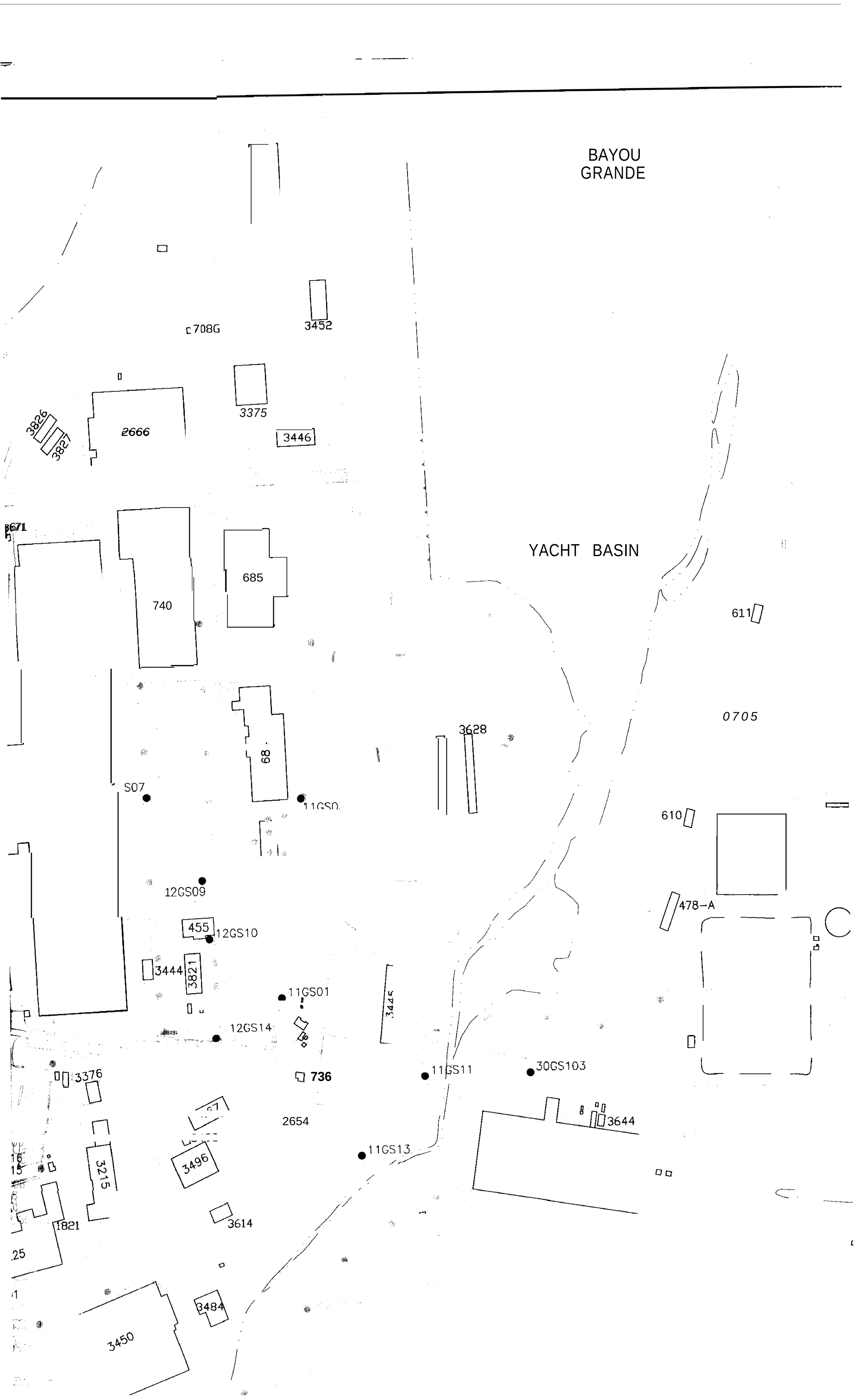
27S15
3450
GOLF
COURSE
755
649
27GS10
27GS06
3607
27GS05
3833


BAYOU
GRANDE
YACHT BASIN
708G
3452
3375
3826
3827
2666
3446
671
740
685
611
0705
3628
68
S07
11GS0
610
12GS09
455
12GS10
478-A
3444
3821
11GS01
3445
12GS14
3376
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11GS11
30GS103
2654
3644
11GS13
3496
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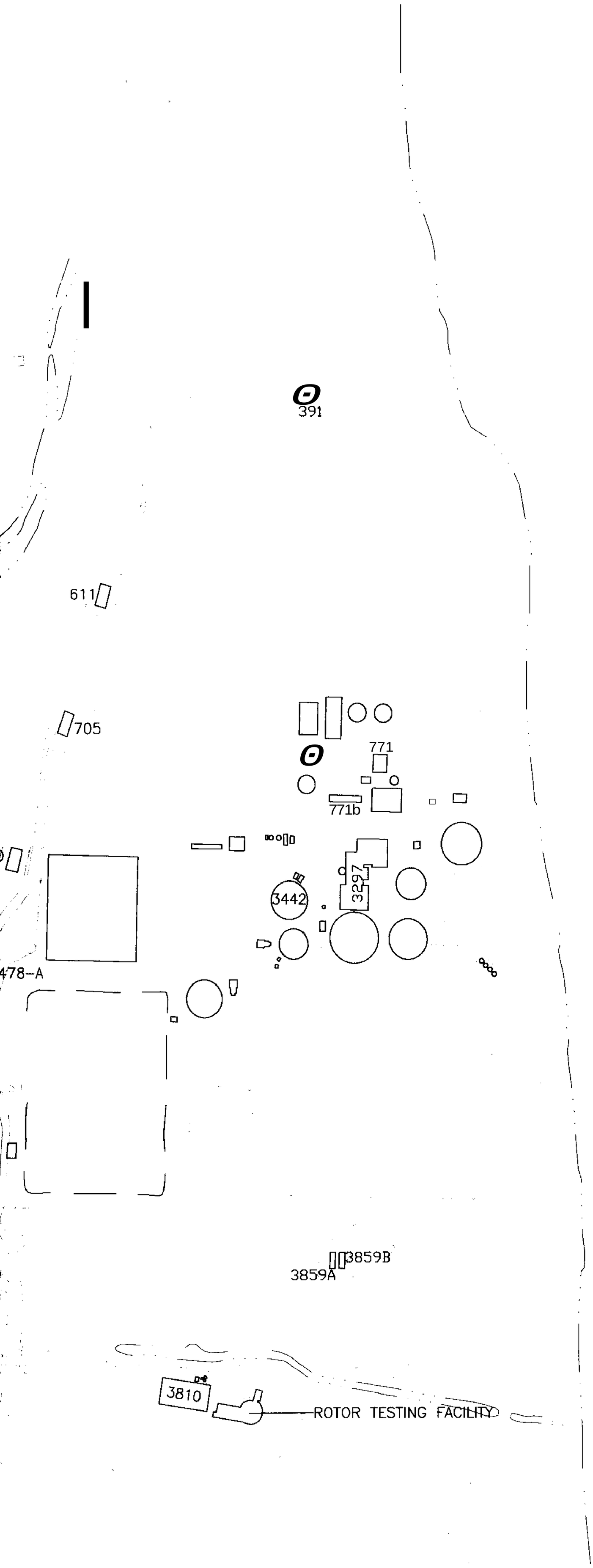
3450



PENSACOLA BAY

SURFACE SOIL ARSENIC EXCEEDANCES

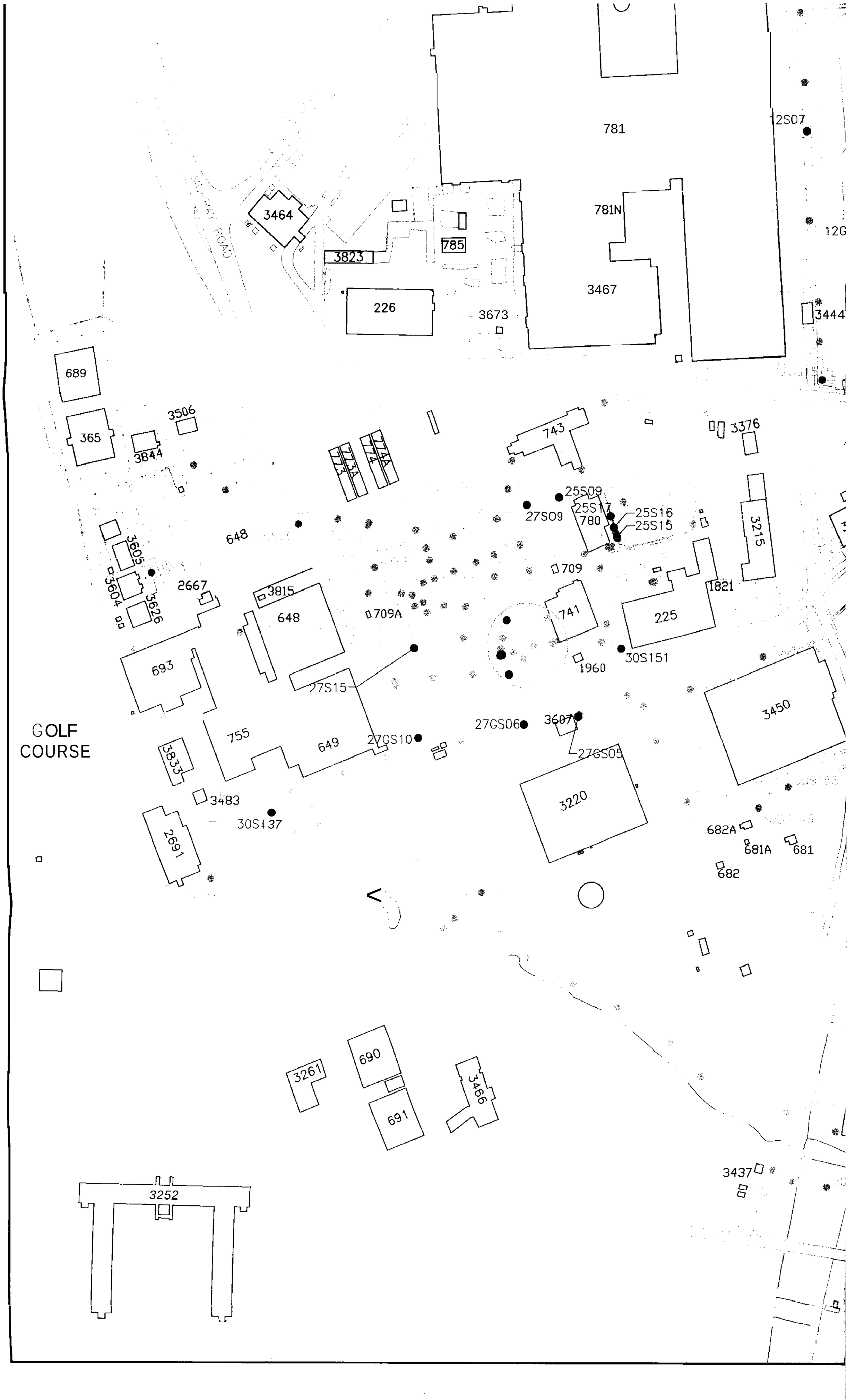
Site	Location ID	Sample ID	Depth ft-bgs	Arsenic (As)
PRG (mg/kg)				1.56 (2)
11				
	11S01	11-S-S001-01	1	3
	11S03	11-S-S003-01	1	1.9 J
	11S11	11-S-S011-01	1	4.1 J
	11S13	11-S-S013-01	1	**2.7** 3
12				
	12S07	12-S-0007-01	1	2.4 J
	12S09	12-S-0009-01	1	1.7 J
	12S10	12-S-0010-01	1	2.8
	12S14	12-S-0014-01	1	2.1 J
25				
	25S09	25-S-S009-00	0	2.1 J
	25S15	25-S-S015-00	0	**4.5**
	25S16	25-S-S016-00	0	2.1
	25S16	25-S-S016-01	1	1.8
	25S17	25-S-S017-00	0	4.1
27				
	27GS01	27-S-0001-01	1	2.8
	27GS05	27-S-0005-01	1	1.7
	27GS06	27-S-0006-01	1	2+3
	27S08	27-S-0008-01	1	2
	27S09	27-S-0009-01	1	3.5
	27GI03	27-S-0019-00	0	2.1
	27GS08	27-S-0020-00	0	**3.2**
	27GS09	27-S-0026-00	0	**1.6**
	27GS10	27-S-0041-00	0	4.8 J
	27S52	27-S-0052-01	1	2.9
	27S53	27-S-0053-00	0	**2.5**
30				
	30S103	30-S-0103-01	1	1.8 J
	30S137	30-S-0137_01	1	4.7
	30S143	30-S-0143-01	1	3.6
	30S147	30-S-0147-01	1	4.8
	30S151	30-S-0151-01	1	3.6 J

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

SACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL ARSENIC EXCEEDANCES)
FENCE LINE
ROADS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12S07
781N
12G
3464
785
3823
3467
226
3673
3444
689
3506
365
3844
743
3376
774A
774
773A
773
25S09
27S09
25S17
780
25S16
25S15
3215
648
3605
709
3604
3626
2667
3815
1821
741
709A
648
225
693
1960
30S151
27S15
3450
27GS06
3607
755
649
27GS10
27GS05
GOLF
COURSE
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3220
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2691
690
3261
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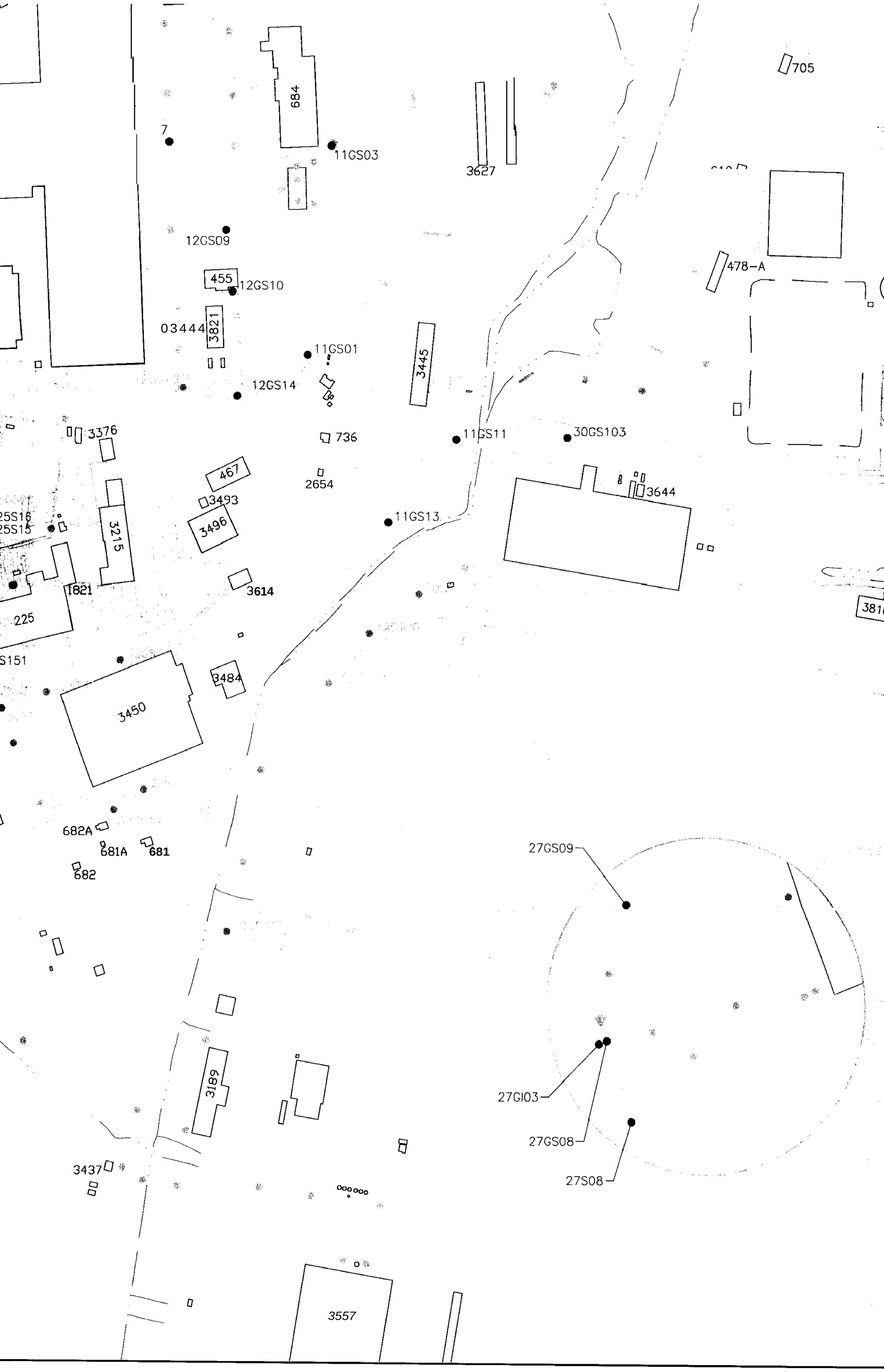
3466
3437
3252


684
7
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705
12GS09
455
12GS10
478-A
03444
3821
11GS01
3445
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3376
736
11GS11
30GS103
467
2654
3493
3644
25S16
25S15
3496
11GS13
3215
1821
3614
225
S151
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3437
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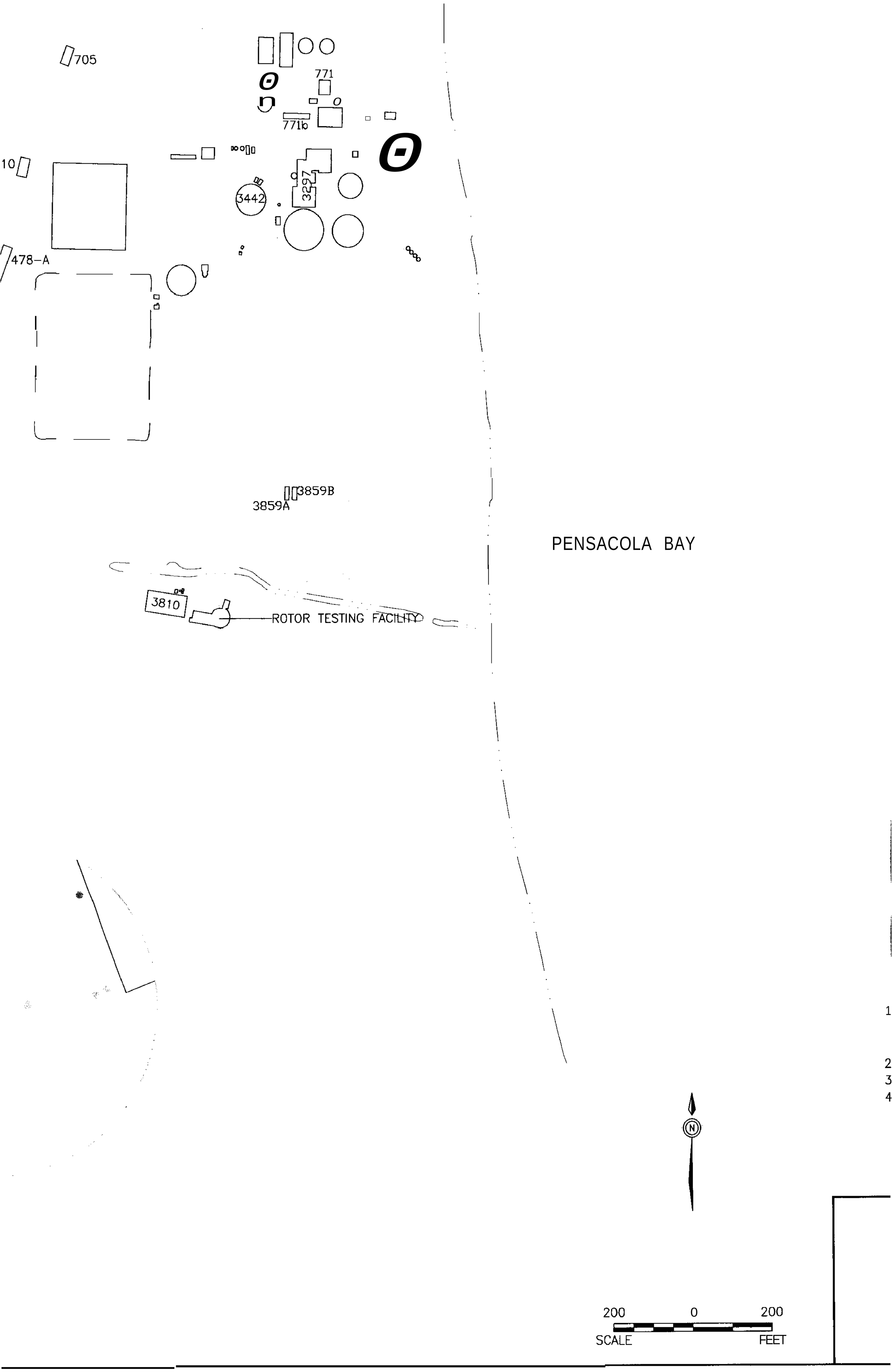

705
771
771b
10
3442
3297
478-A
3859B
3859A
PENSACOLA BAY
3810
ROTOR TESTING FACILITY
N
200
0
200
SCALE
FEET

30				
	305103	30-S-0103-01	1	1.8 J
	30S137	30-S-0137-01	1	4.7
	30S143	30-S-0143-01	1	3.6
	30S147	30-S-0147-01	1	4.8
	305151	30-S-0151-01	1	3.6 J

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL ARSENIC EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- SOIL BORING
- SOIL BORING (EXHIBITING SURFACE SOIL ARSENIC EXCEEDANCES)

APPROXIMATE AREA OF SURFACE SOIL ARSENIC CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE Of ARSENIC SURFACE SOIL EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF ARSENIC SURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

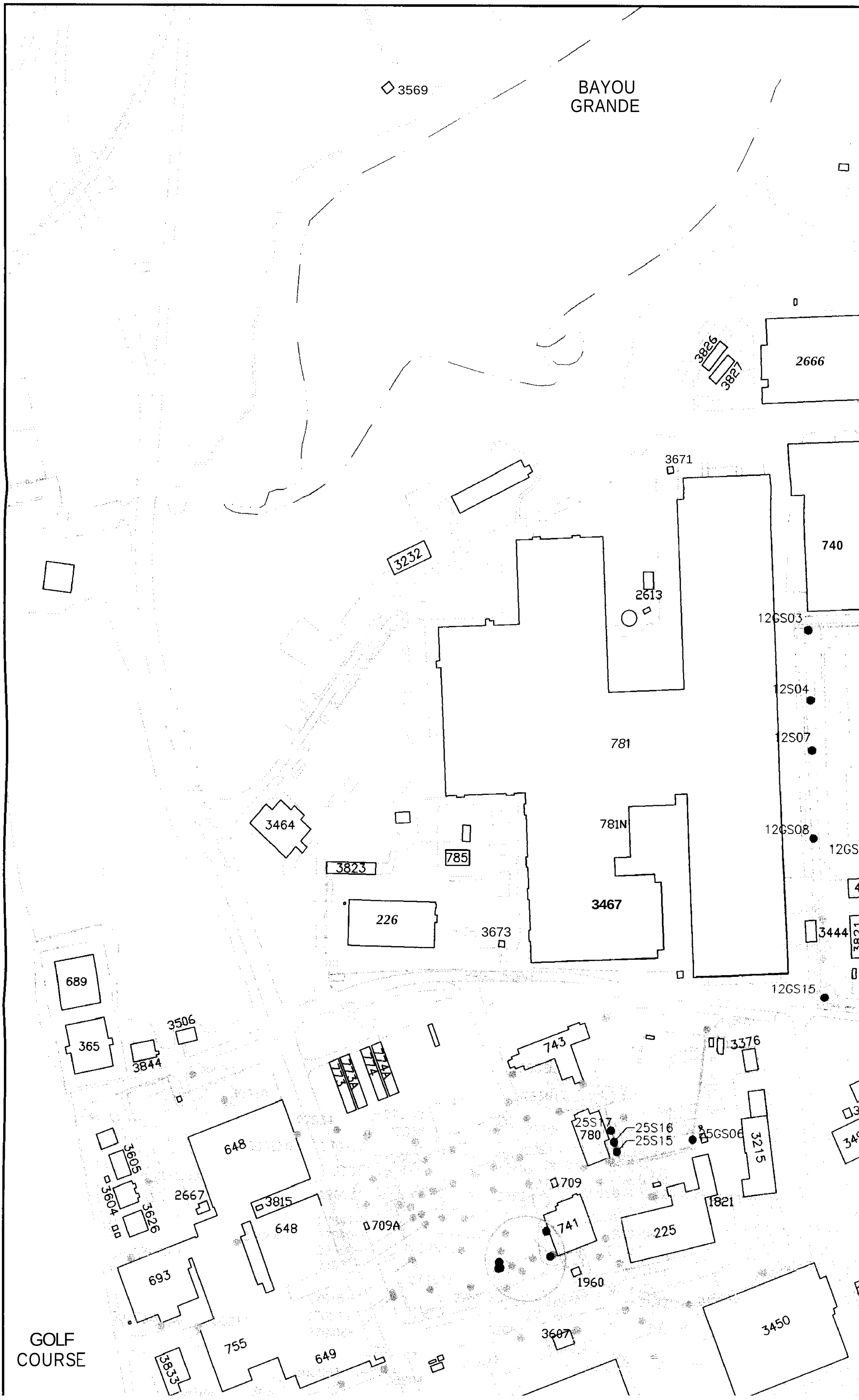
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 12
SURFACE SOIL ARSENIC
EXCEEDANCES

Dr by KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/08/97	DWG Name: 59OU2PME	Of 1

SECTIONS TO FOLLOW ON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GRANDE
3569
3826
3827
2666
3671
740
3232
2613
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12S04
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781N
12GS08
785
3823
3467
226
3673
3444
12GS15
689
365
3506
3844
743
3376
773A
774A
774
25S17
780
25S16
25S15
25GS06
3215
648
3605
3604
3626
2667
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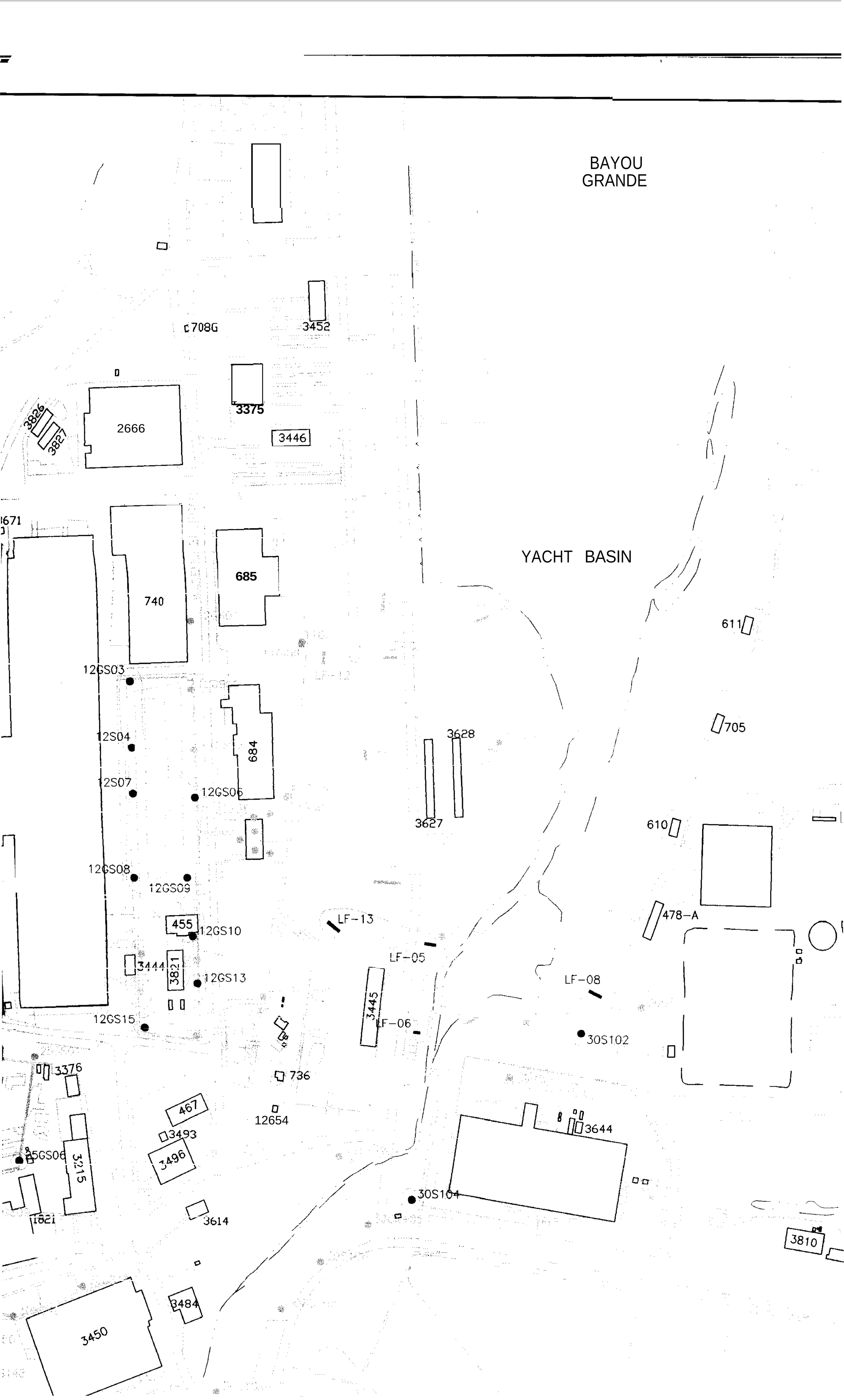
3607
755
649
3833
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
708G
3452
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3446
2666
3826
3827
671
740
685
684
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12S07
12GS06
12GS08
12GS09
455
12GS10
3444
3821
12GS13
12GS15
3376
736
467
12654
3493
3496
3215
3614
3484
3450
3628
3627
611
705
610
478-A
LF-13
LF-05
LF-08
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LF-06
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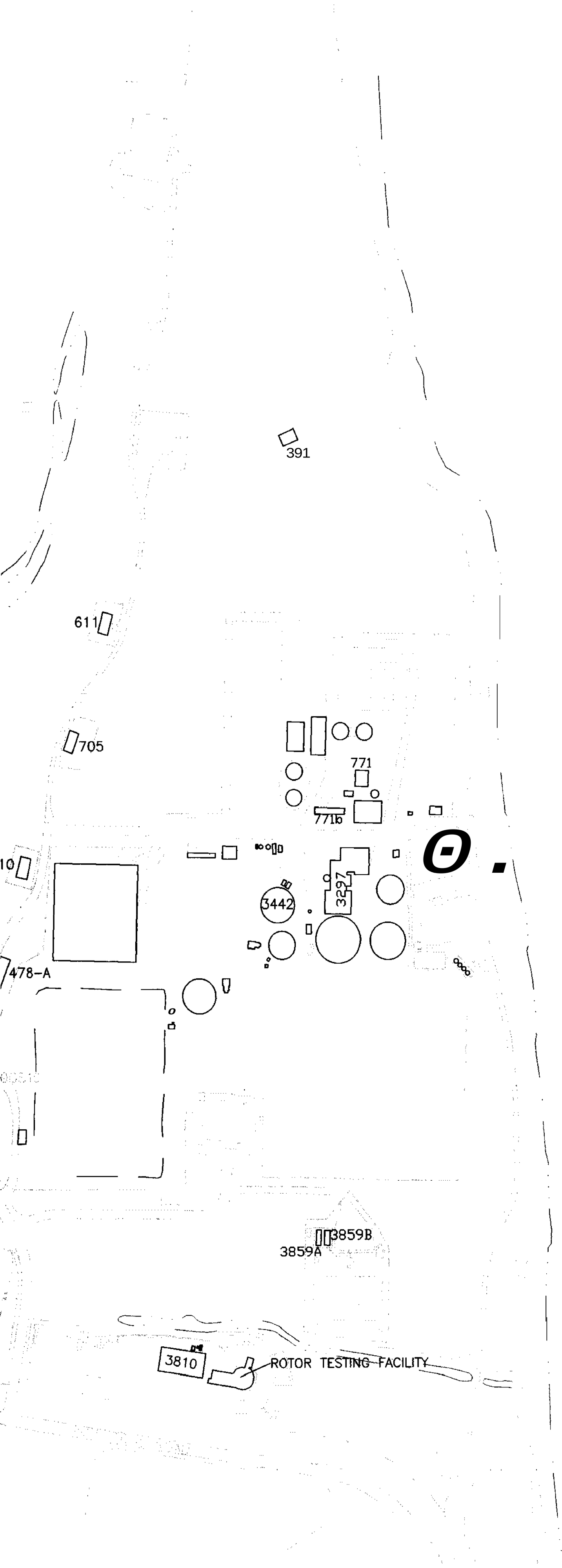
30S104
3644
3810


391
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705
771
771b
10
3442
3297
478-A
3859B
3859A
PENSACOLA BAY
3810
ROTOR TESTING FACILITY

743

SURFACE SOIL CADMIUM EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Cadmium (Cd)
PRG (mg/kg)				3.9 (1)
11				
	LF-05	11-S-RA05-01	1	23.3 J
	LF-06	11-S-RA06-01	7	15.9 J
	LF-08	11-S-RA08-01	1	11.1
	LF-13	11-S-RA13-01	1	12.7 3
12				
	12GS03	12-S-0003-01	1	5.1
	12S04	12-S-0004-01	1	5.1
	12GS06	12-S-0006-01	1	6 J
	12S07	12-S-0007-01	1	11.2
	12GS08	12-S-0008-01	1	**17.3**
	12GS09	12-S-0009-01	1	**49.4 J**
	12GS10	12-S-0010-01	I	**562**
	12GS13	12-S-0013-01	1	15.5
	12GS15	12-S-0015-01	1	4.5
25				
	25GS06	25-S-S011-01	1	**9.1**
	25S15	25-S-S015-00	0	**34.6**
	25S16	25-S-S016-01	1	13.1
	25S17	25-S-S017-00	0	31.7 J
27				
	27GS04	27-S-0004-01	1	23.7
	27GI03	27-S-0019-00	0	6.3
	27GS08	27-S-0020-00	0	5.8
	27S52	27-S-0052-00	0	20.3
	27S52	27-S-0052-01	1	26.1
	27S53	27-S-0053-00	0	67.1
	27S53	27-S-0053-01	1	16.4
30				
	30S102	30-S-0102-01	1	9.7 J
	30S104	30-S-0104-01	1	4
	30S123	30-S-0123-01	1	9.7
	30S125	30-S-0125-01	1	15.1
	30S134	30-S-0134-01	1	**4.2** J
	30S137	30-S-0137-01	1	**35.9** J
	30S139	30-S-0139-01	1	**4.8** 3
	30S140	30-S-0140-01	1	**6 J**

PRG = PRELIMINARY REMEDIATION GOAL

(1) USEPA RISK-BASED CONCENTRATION

ACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

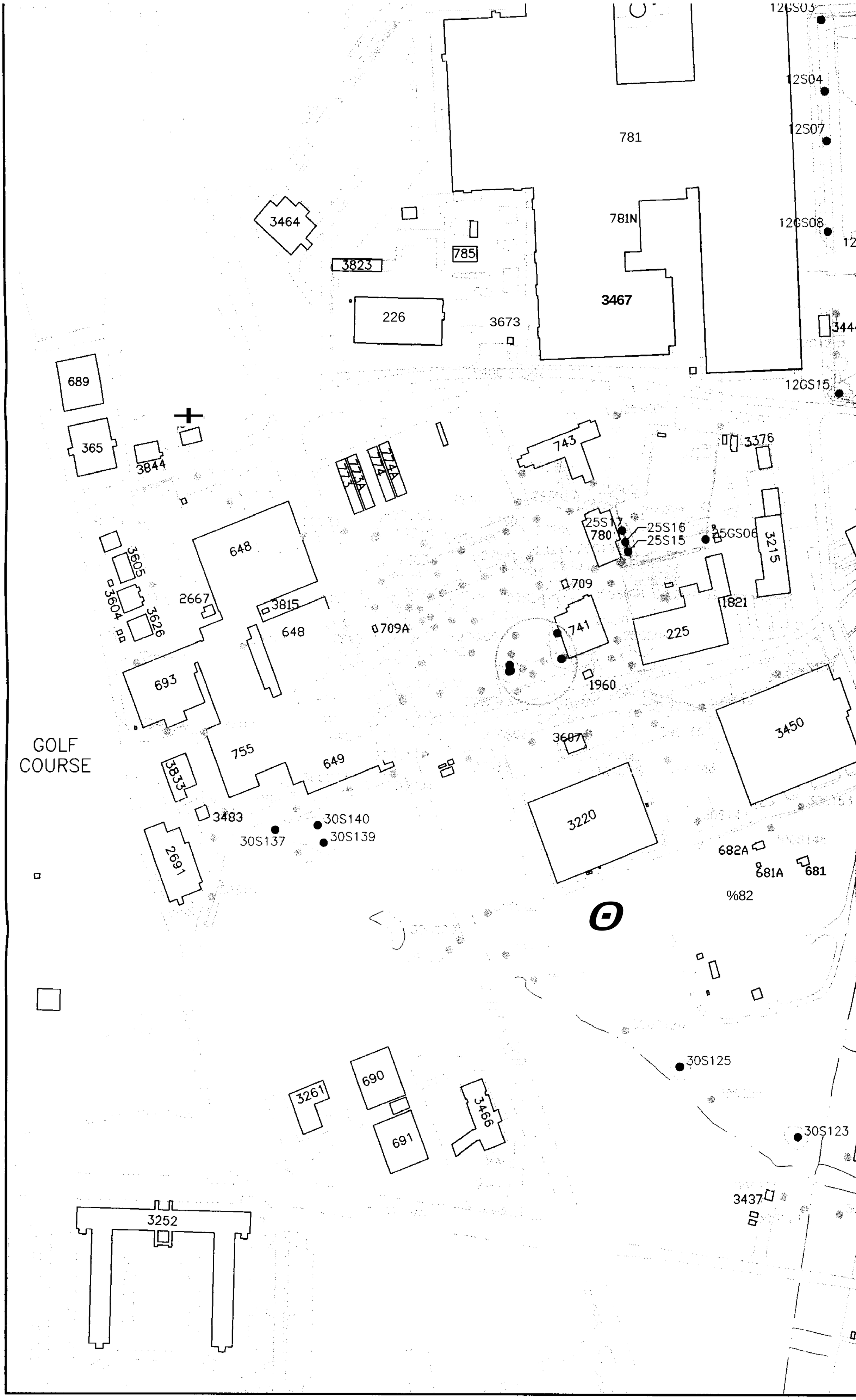
TRENCH

TRENCH (EXHIBITING SURFACE SOIL CADMIUM EXCEEDANCES) EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS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12GS15
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3844
743
3376
773A
774A
773
774
25S17
780
25S16
25S15
25GS06
3215
648
3605
3604
3626
2667
3815
709
1821
709A
741
225
693
1960
3450
GOLF
COURSE
755
649
3607
3833
3483
30S140
30S137
30S139
3220
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681A
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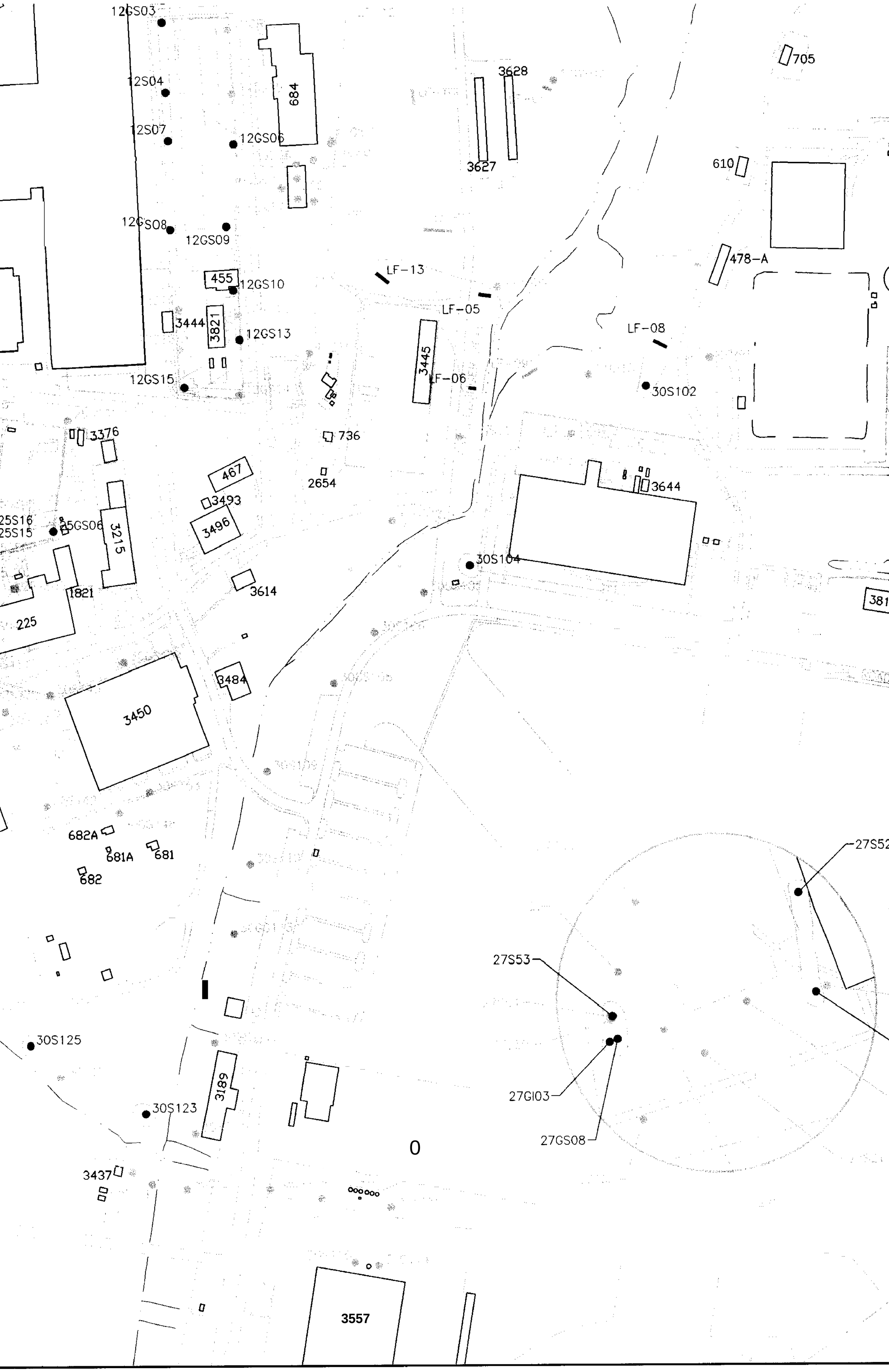
30S123
3437
3252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610
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LF-13
478-A
LF-05
3444
3821
12GS13
LF-08
3445
LF-06
12GS15
30S102
3376
736
467
2654
3493
3644
25S16
25S15
25GS06
3215
3496
30S104
1821
3614
225
3484
3450
682A
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681
682
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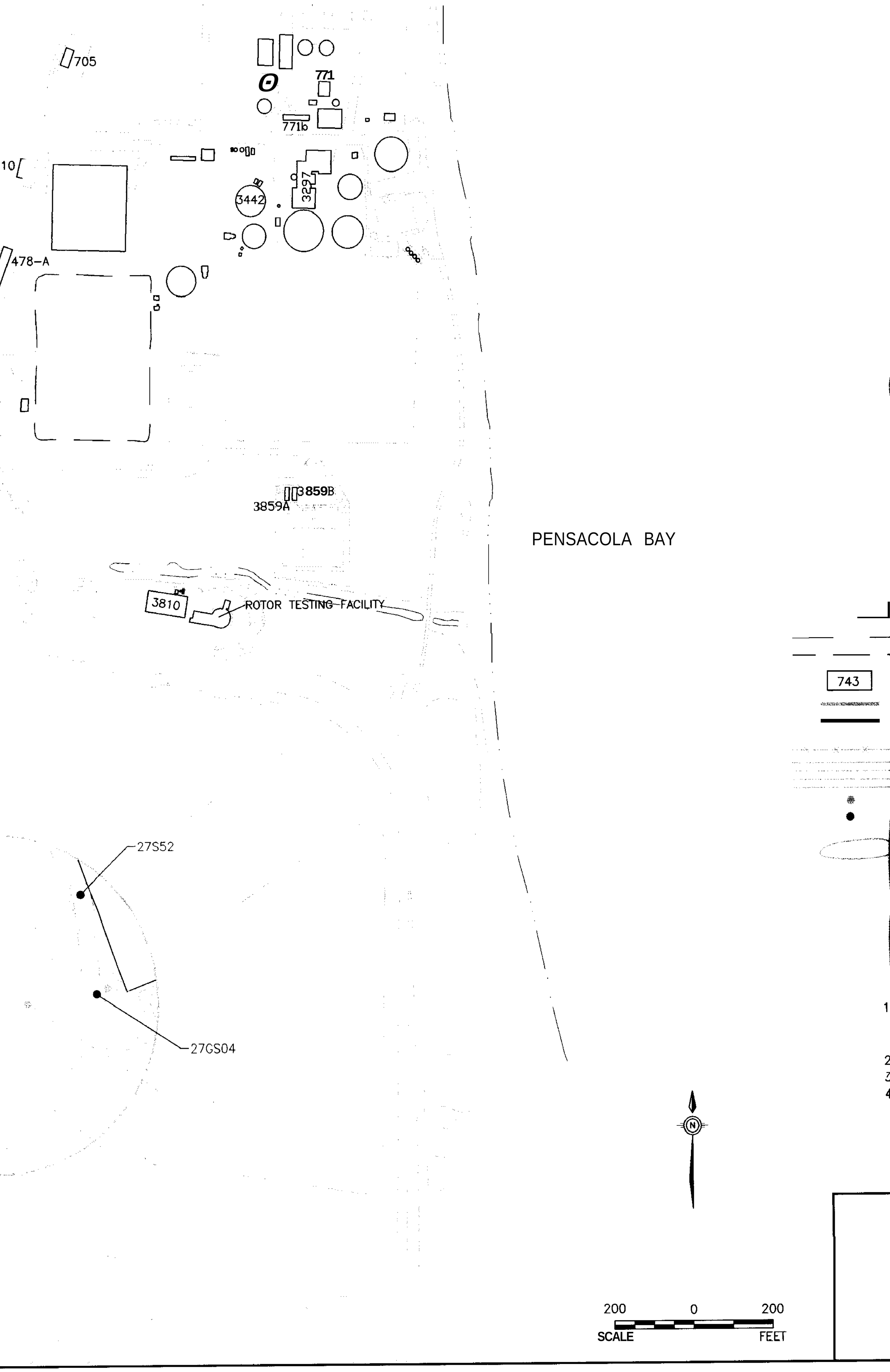
27S53
30S125
3189
27GI03
30S123
27GS08
0
3437
3557


705
771
771b
10
3442
3297
478-A
3859B
3859A
PENSACOLA BAY
3810
ROTOR TESTING FACILITY
743
27S52
27GS04
N
200
0
200
SCALE
FEET

	27GS04	27-S-0004-01	1	23.7
	27GI03	27-S-0019-00	0	6.3
	27GS08	27-S-0020-00	0	5.8
	27S52	27-S-0052-00	0	20.3
	27552	27-S-0052-01	1	26.1
	27S53	27-S-0053-00	0	67.1
	27S53	27-S-0053-01	1	16.4
30				
	30S102	30-S-0102-01	1	9.7 J
	30S104	30-S-0104-01	1	4
	30S123	30-S-0123-01	1	9.7
	30S125	30-S-0125-01	1	15.1
	30S134	30-S-0134-01	3	4.2 3
	30S137	30-S-0137-01	1	35.9 J
	30S139	30-S-0139-01	1	4.8 J
	30S140	30-S-0140-01	1	6 J

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION

JSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL CADMIUM EXCEEDANCES)
EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL CADMIUM EXCEEDANCES)
APPROXIMATE AREA OF SURFACE SOIL CADMIUM CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SURFACE SOIL CADMIUM EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF SURFACE SOIL CADMIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

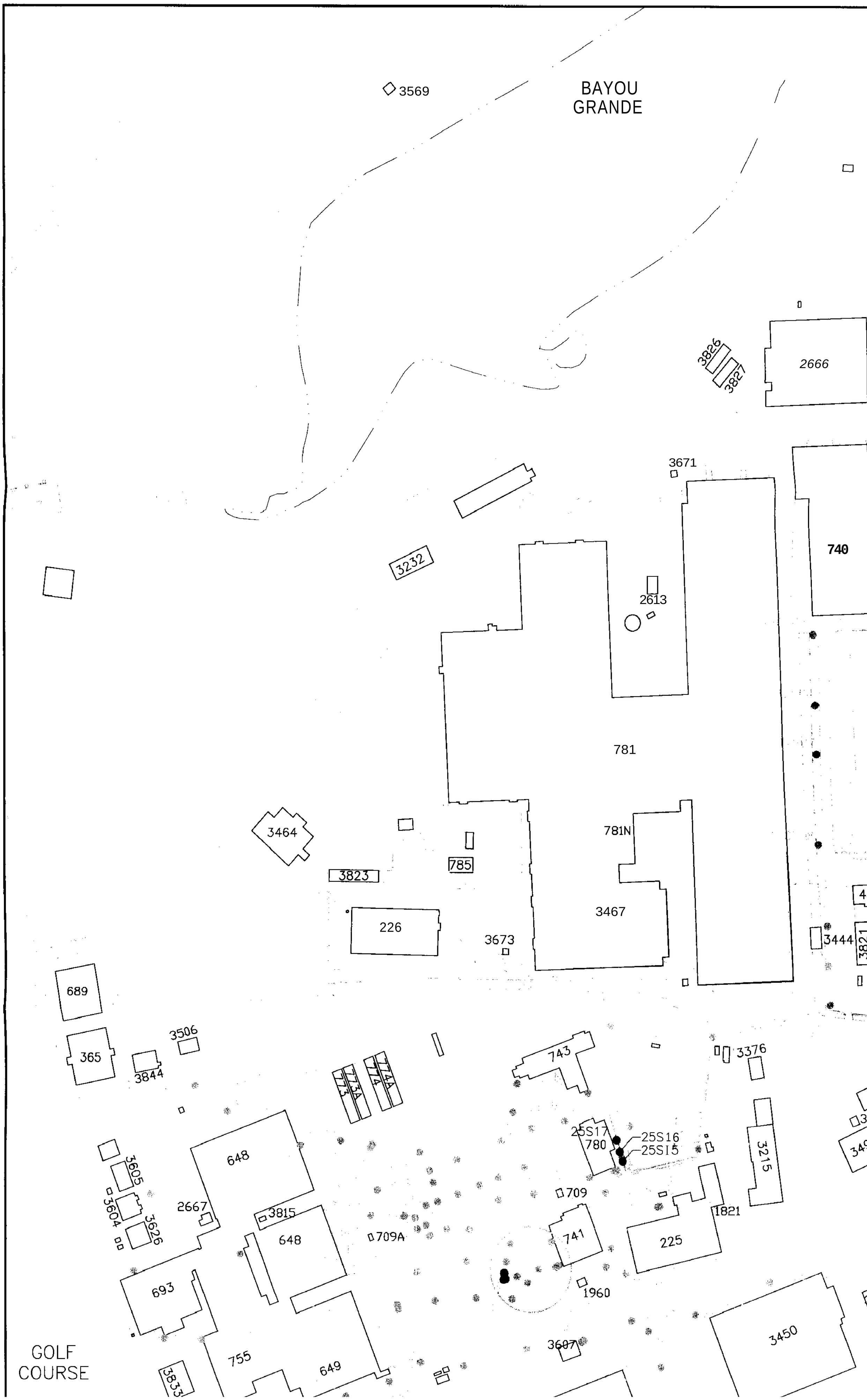
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 13
SURFACE SOIL **CADMIUM**
EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/05/97	DWG Name: 59OU2F13	Of 1

SECTIONS TO FOLLOW ON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BAYOU
GRANDE
3826
3827
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2613
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3673
3444
689
365
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3376
773A
773
774A
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25S17
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25S16
25S15
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3604
3626
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3607
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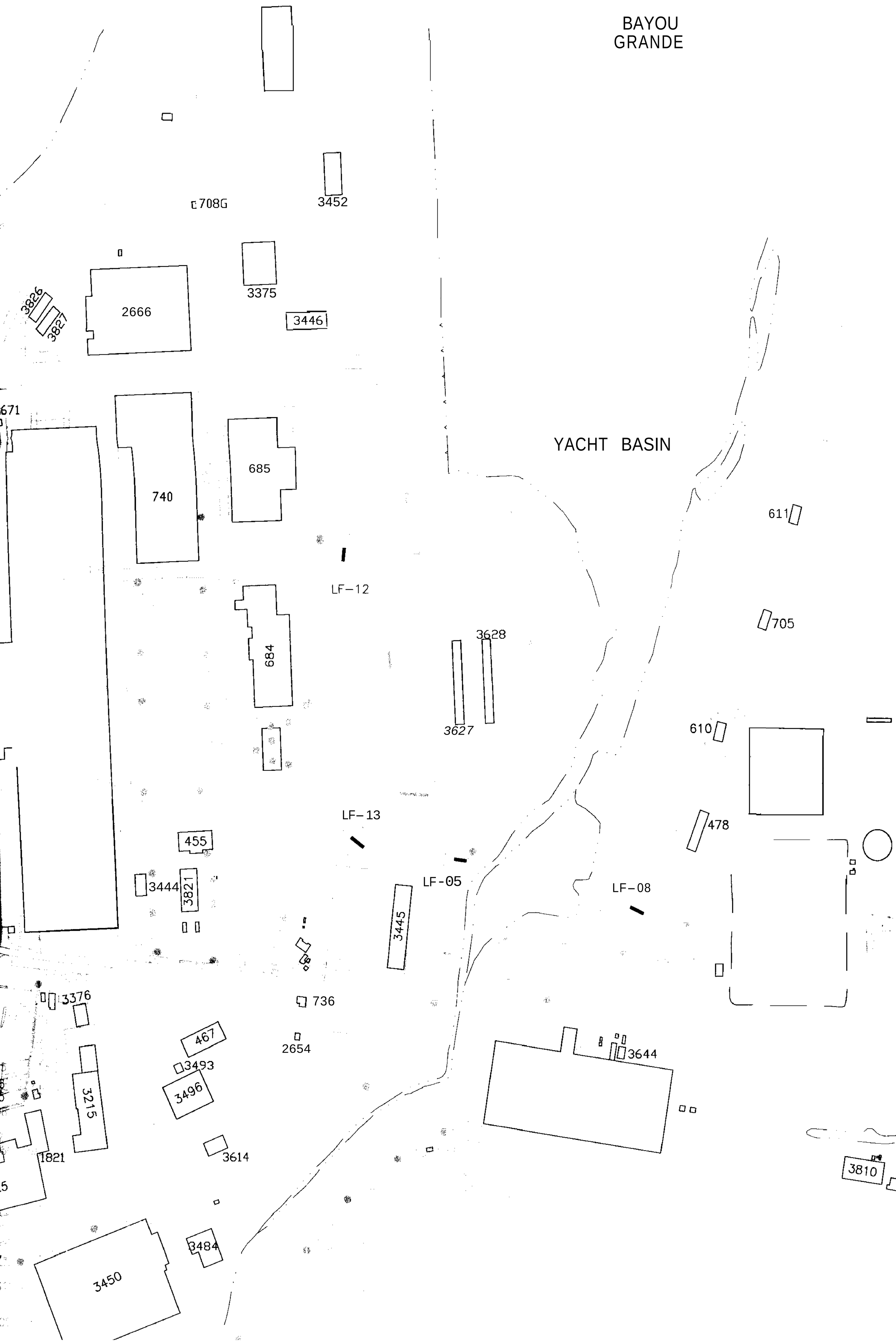
3833
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
708G
3452
3375
2666
3826
3827
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671
740
685
684
LF-12
3628
3627
611
705
610
478
LF-13
LF-05
LF-08
455
3444
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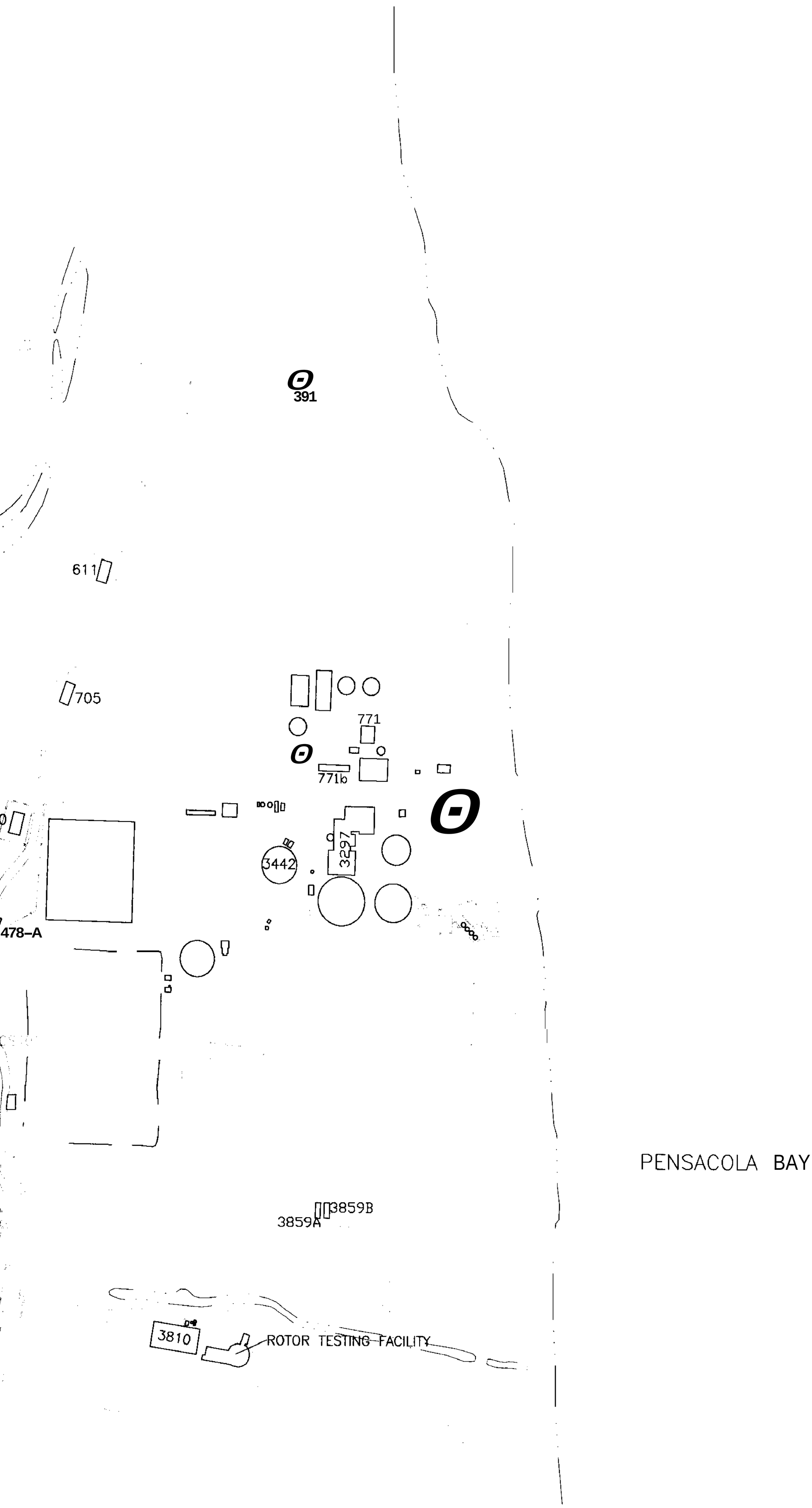


SURFACE SOIL		
Site	Location ID	Sc
PRG (mg/kg)		
11		
	LF-05	11-S
	LF-08	11-S-
	LF-12	11-S-
	LF-13	11-S-
25		
	25S15	25-S-
	25S16	25-S-
	25S17	25-S-
27		
	27GS08	27-S-
	27S53	27-S-
	27S53	27-S-

PRG = PRELIMINARY REMEDIATION
(1) SOIL INTERIM LEAD GUIDANCE

SURFACE SOIL LEAD EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Lead (Pb)
PRG (mg/kg)				400 (1)
11				
	LF-05	11-S-RA05-01	1	790 J
	LF-08	11-S-RA08-01	1	413 J
	LF-12	11-S-RA12-01	1	488
	LF-13	11-S-RA13-01	1	463 J
25				
	25515	25-S-S015-00	0	1840
	25516	25-S-S016-00	0	717
	25S17	25-S-S017-00	0	904
27				
	27GS08	27-S-0020-00	0	513 J
	27S53	27-S-0053-00	0	1550
	27S53	27-S-0053-01	1	527

PRG = PRELIMINARY REMEDIATION GOAL

(1) SOIL INTERIM LEAD GUIDANCE

ENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

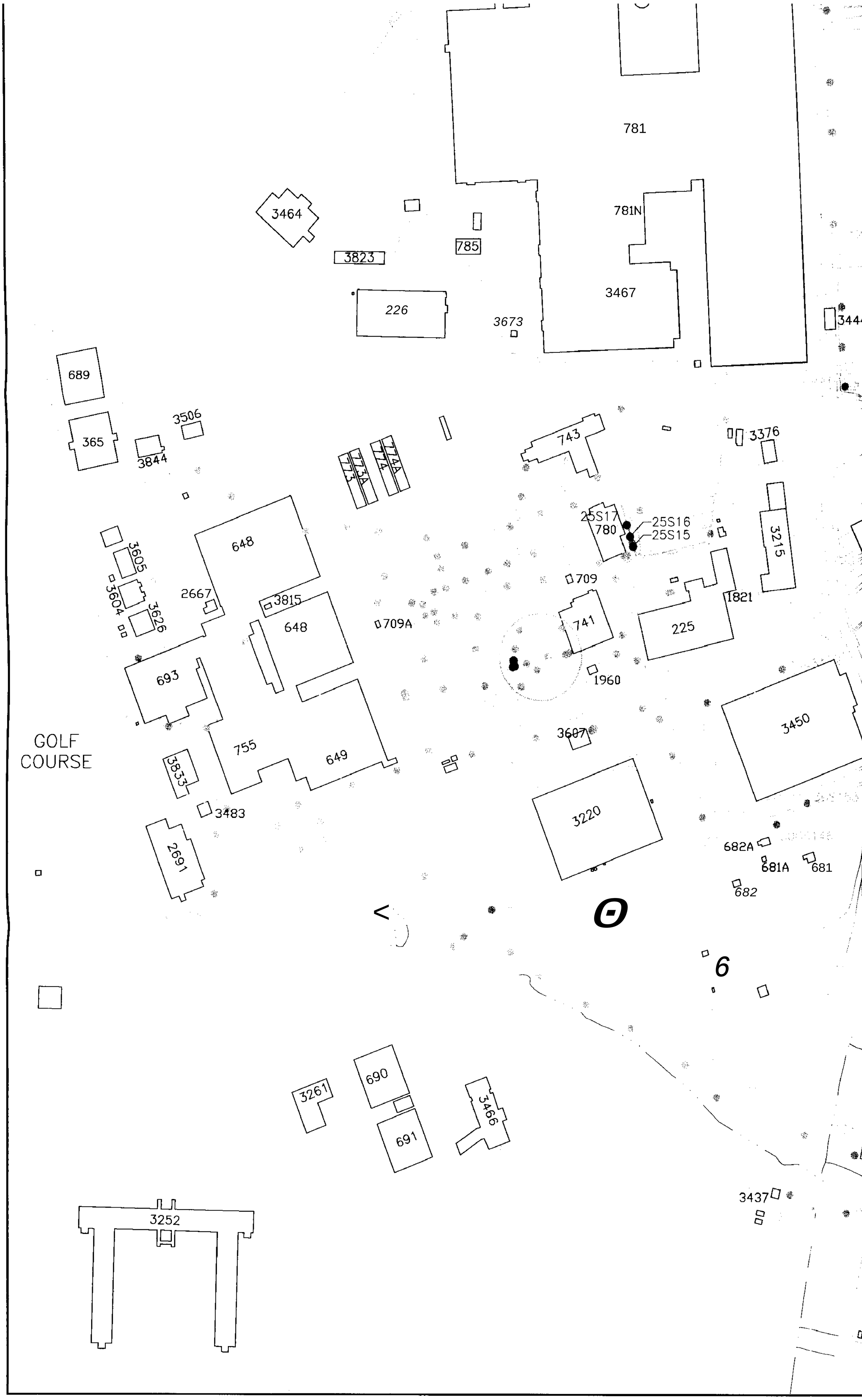
743 BUILDING

TRENCH

TRENCH (EXHIBITING SURFACE SOIL LEAD EXCEEDANCES)

FENCE LINE

ROADS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781N
3464
785
3823
3467
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3673
689
365
3506
3844
743
3376
773
773A
774
774A
25S17
780
25S16
25S15
3215
648
3605
3604
3626
2667
3815
709
1821
709A
741
225
693
1960
3450
GOLF
COURSE
755
649
3607
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681A
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2691
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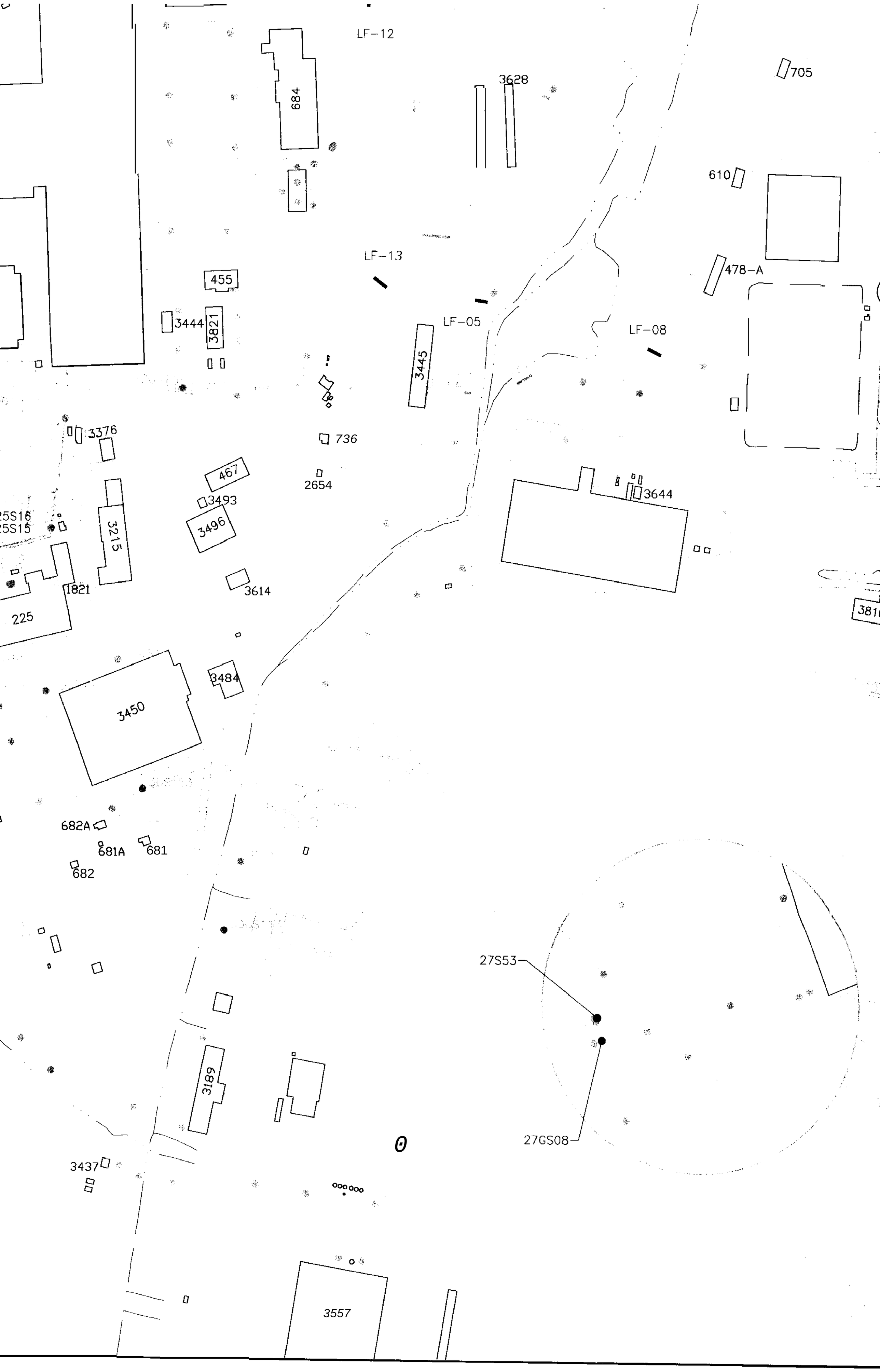
690
3261
691
3466
3437
3252


LF-12
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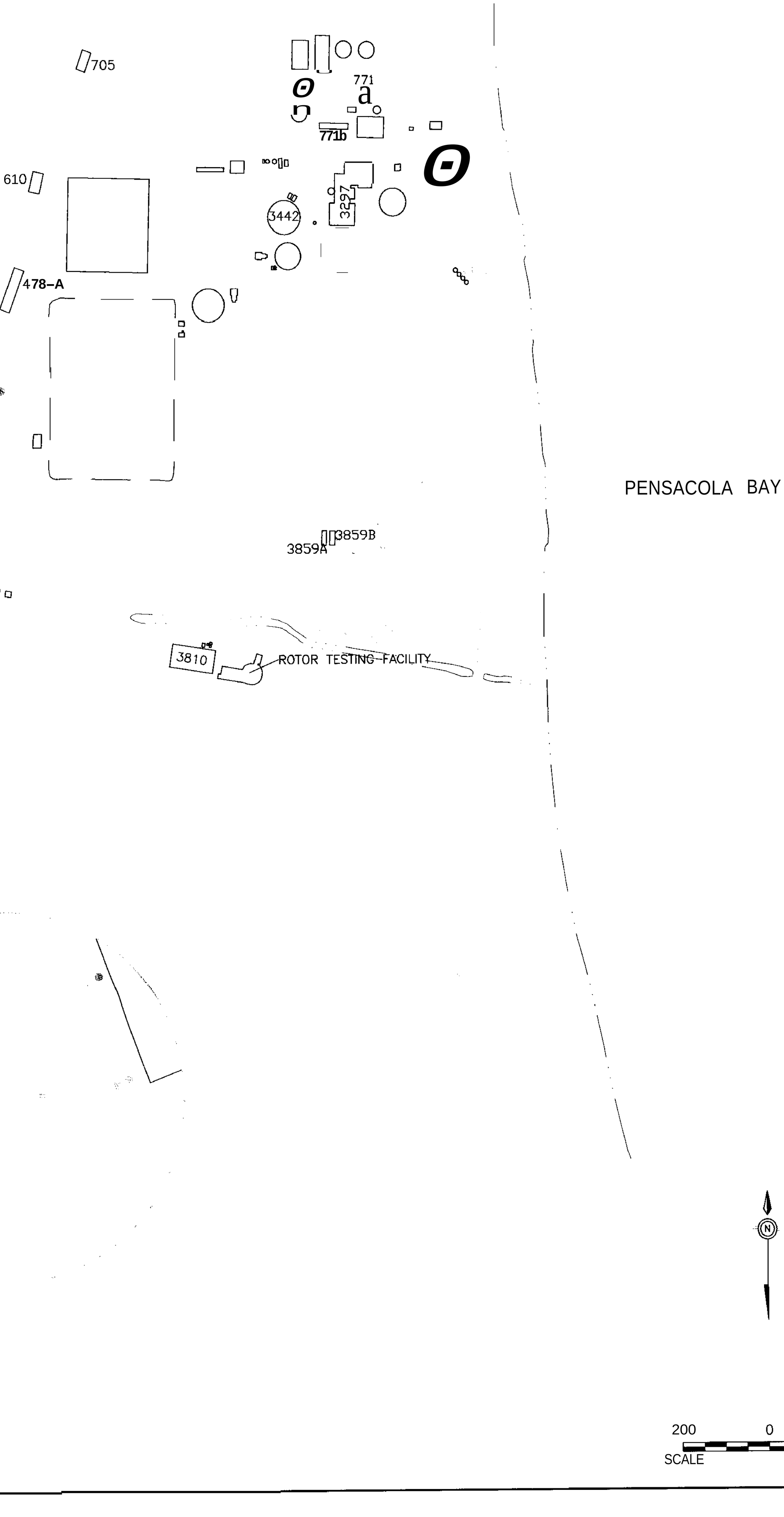
3493
3496
3644
25S16
25S15
3215
1821
3614
225
3484
3450
682A
681A
681
682
27S53
3189
27GS08
3437
3557

	25S16	25
	25S17	25
27		
	27GS08	27
	27S53	27
	27S53	27

PRG = PRELIMINARY REMEDIAT

(1) SOIL IMERIM LEAD GUID



	25S16	25-S-S016-00	0	717
	25S17	25-S-S017-00	0	904
27				
	27GS08	27-S-0020-00	0	513 J
	27553	27-S-0053-00	0	1550
	27S53	27-S-0053-01	1	527

PRG = PRELIMINARY REMEDIATION GOAL

(1) SOIL INTERIM LEAD GUIDANCE

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SURFACE SOIL LEAD EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

SOIL BORING

SOIL BORING (EXHIBITING SURFACE SOIL LEAD EXCEEDANCES)

APPROXIMATE AREA OF SURFACE SOIL LEAD CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SURFACE SOIL LEAD EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF SURFACE SOIL LEAD EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

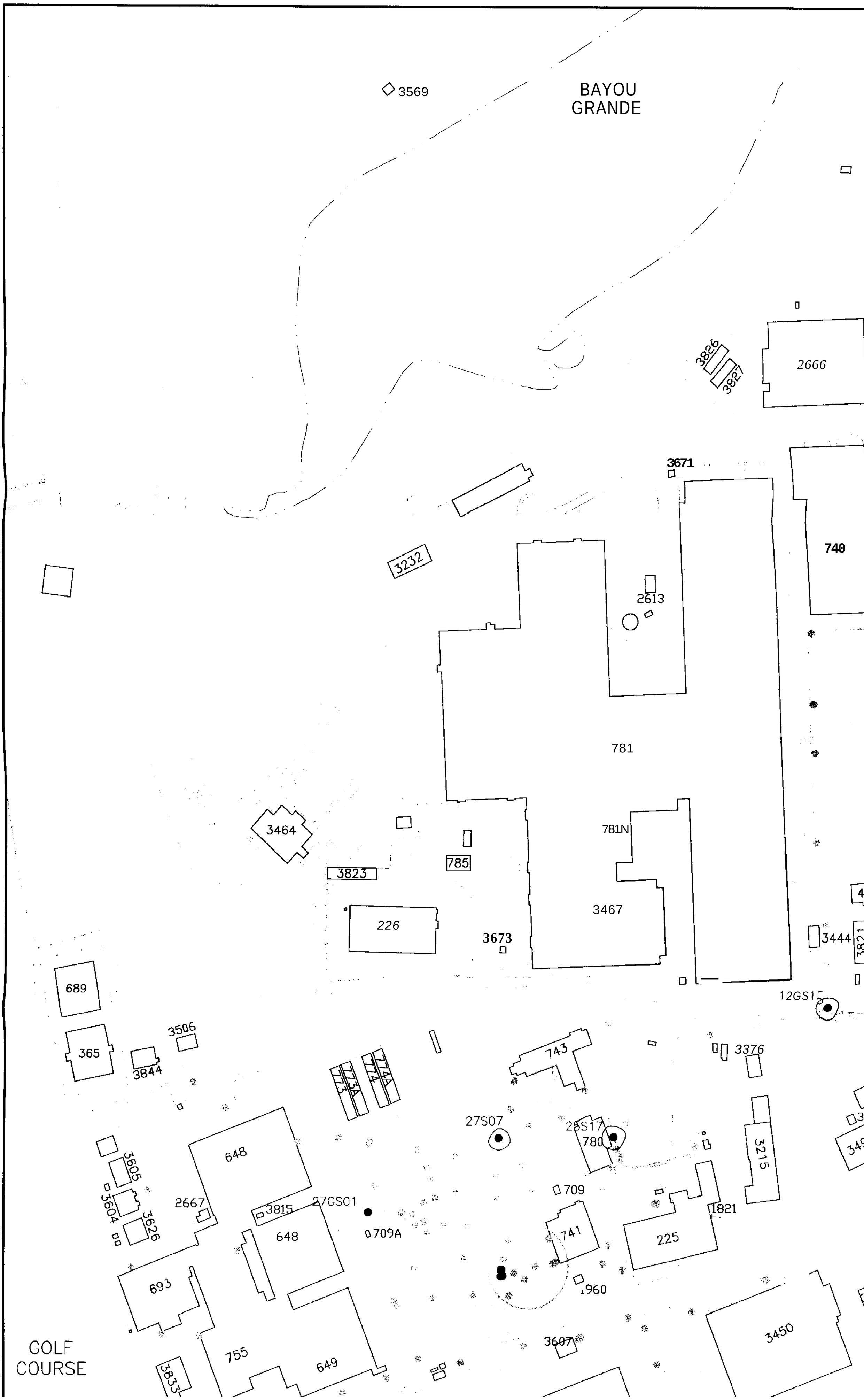
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 14
SURFACE SOIL LEAD
EXGEEDANCES

Dr by KB/E/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/05/97	DWG Name: 590U2F12	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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BAYOU
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3826
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12GS12
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3376
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773A
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774A
27S07
25S17
780
3215
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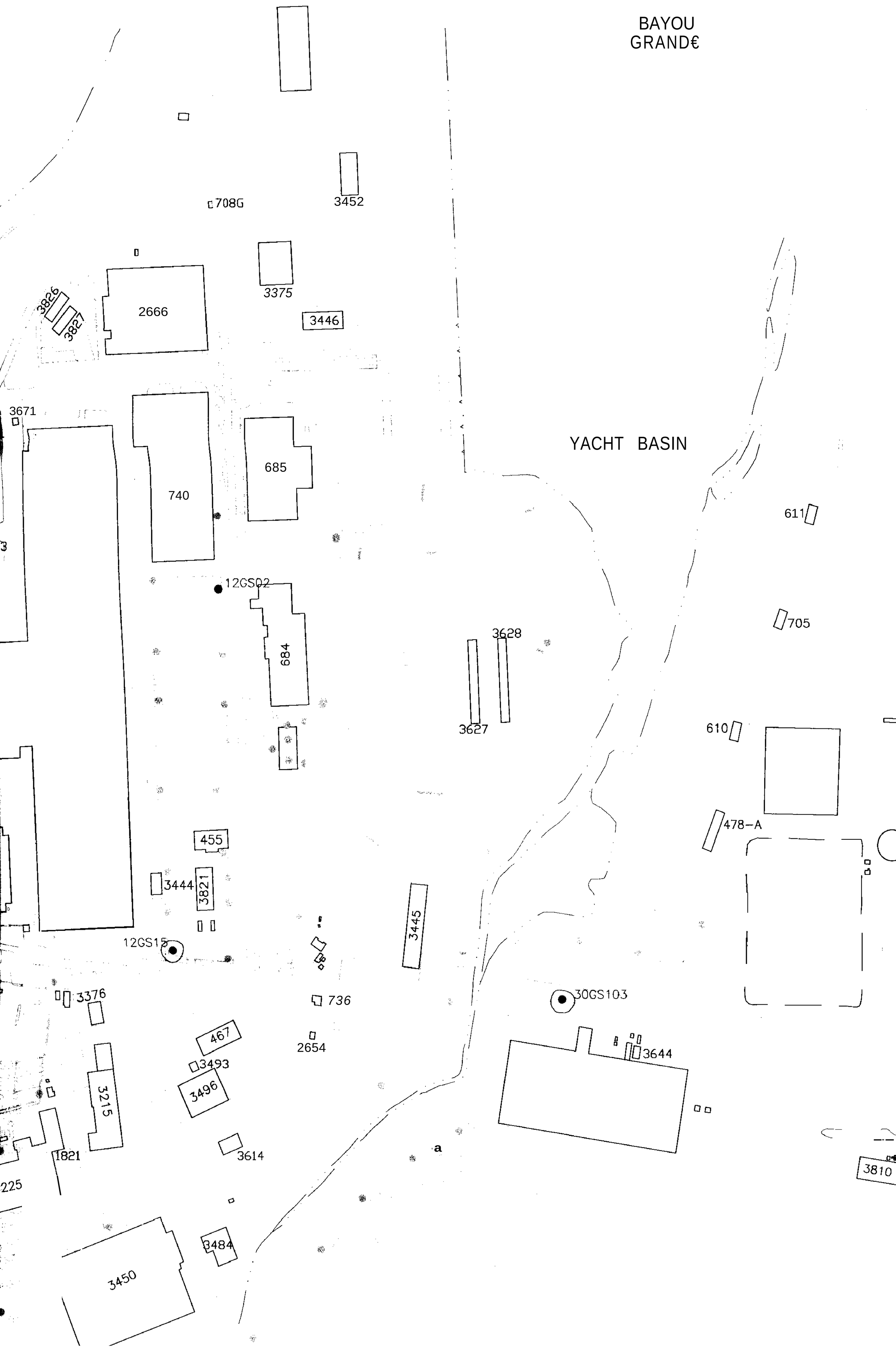
3833
GOLF
COURSE


BAYOU
GRAND€
YACHT BASIN
708G
3452
3375
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684
611
705
610
3628
3627
478-A
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3444
3821
3445
12GS15
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30GS103
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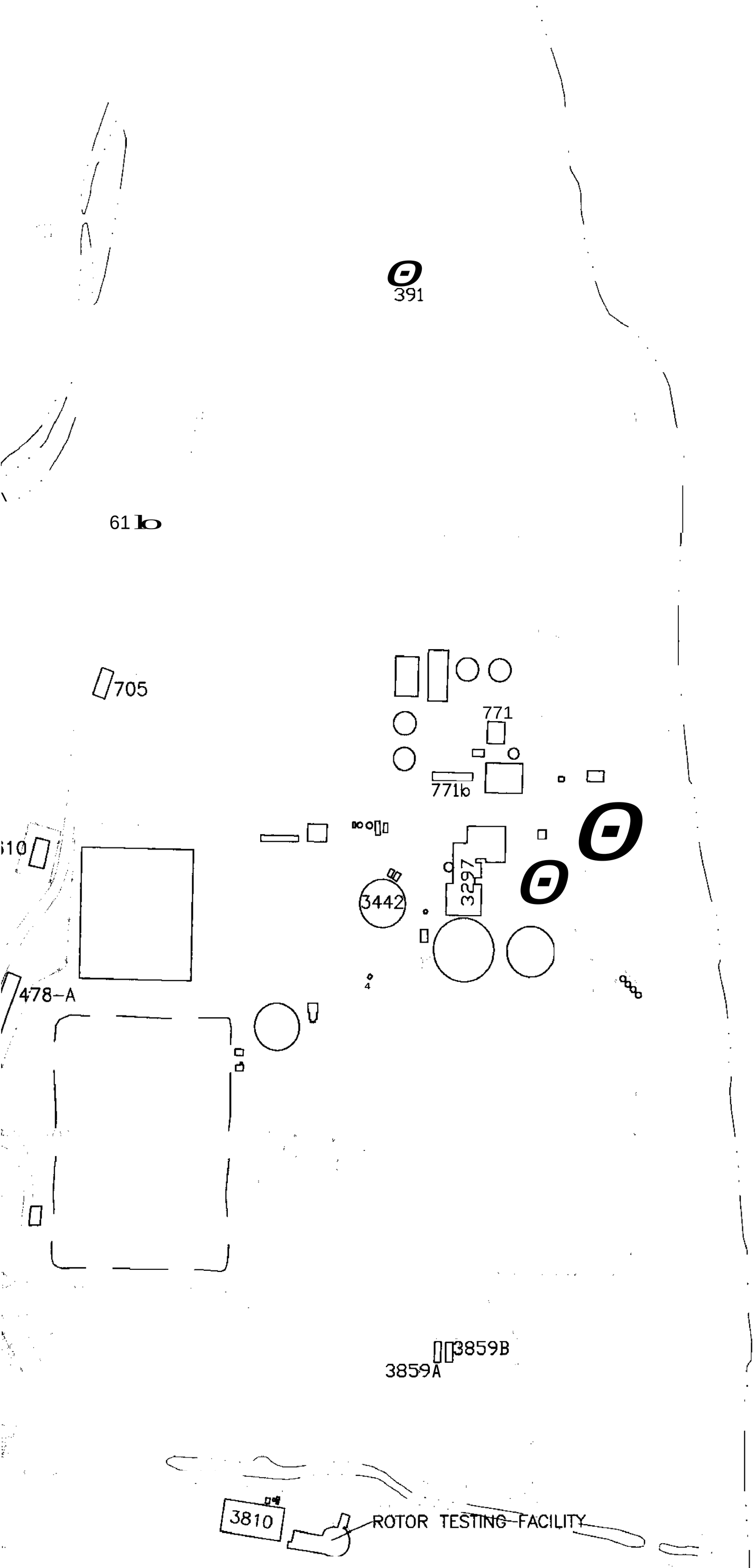
1821
3614
3810
225
3484
3450



SURFACE SOIL ANTIMONY, BERY		
Site	Location ID	Sample ID
PRG (mg/kg)		
12		
	12GS02	12-S-0002-01
	12GS15	12-S-0015-01
25		
	25S17	25-S-S017-00
27		
	27GS01	27-S-0001-00
	27S07	27-S-0007-01
	27GI03	27-S-0019-00
	27S53	27-S-0053-00
	27S53	27-S-0053-01
30		
	305303	30-S-0103-01
	30S137	30-S-0137-01

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

SURFACE SOIL ANTIMONY, BERYLLIUM, AND MERCURY EXCEEDANCES

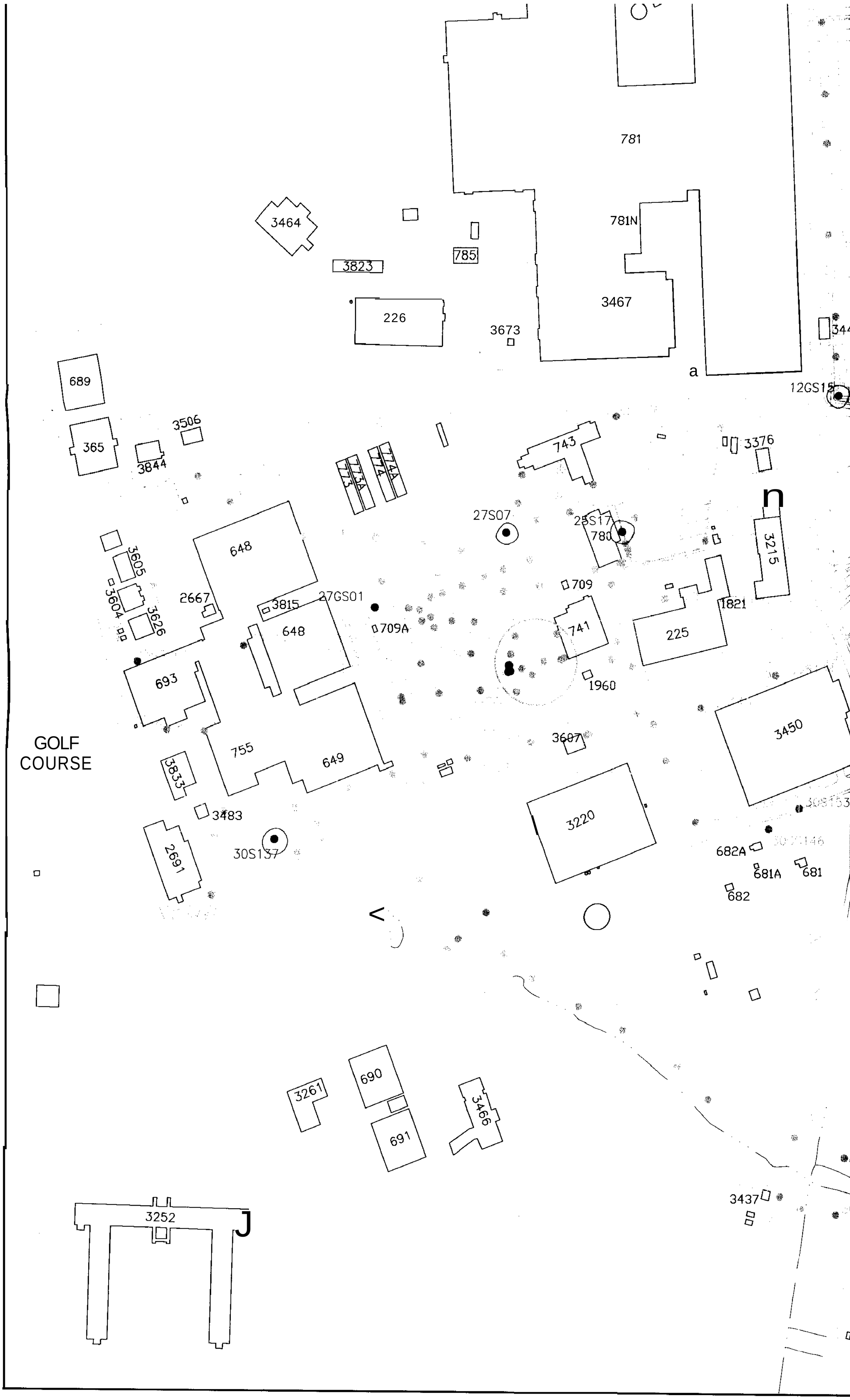
Site	Location ID	Sample ID	Depth ft-bgs	Antimony (Sb)	Beryllium (Be)	Mercury (Hg)
PRG (mg/kg)				9.49 (2)	0.41 (2)	2.3 (1)
12						
	12GS02	12-S-0002-01	1	12.5		
	12GS15	12-S-0015-01	1		0.43 J	
25						
	25S17	25-S-S017-00	0		1	3.7
27						
	27GS01	27-S-0001-00	0	9.5		
	27507	27-S-0007-01	1		0.44 J	
	27GI03	27-S-0019-00	0			7.1
	27553	27-S-0053-00	0			84
	27553	27-S-0053-01	1			21.8
30						
	305103	30-S-0103-01	1		0.42 J	
	305137	30-S-0137-01	1		1.3	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGE"

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES)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774A
27S07
25S17
780
648
3605
3604
3626
2667
3815
27GS01
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709A
741
225
1821
12GS15
693
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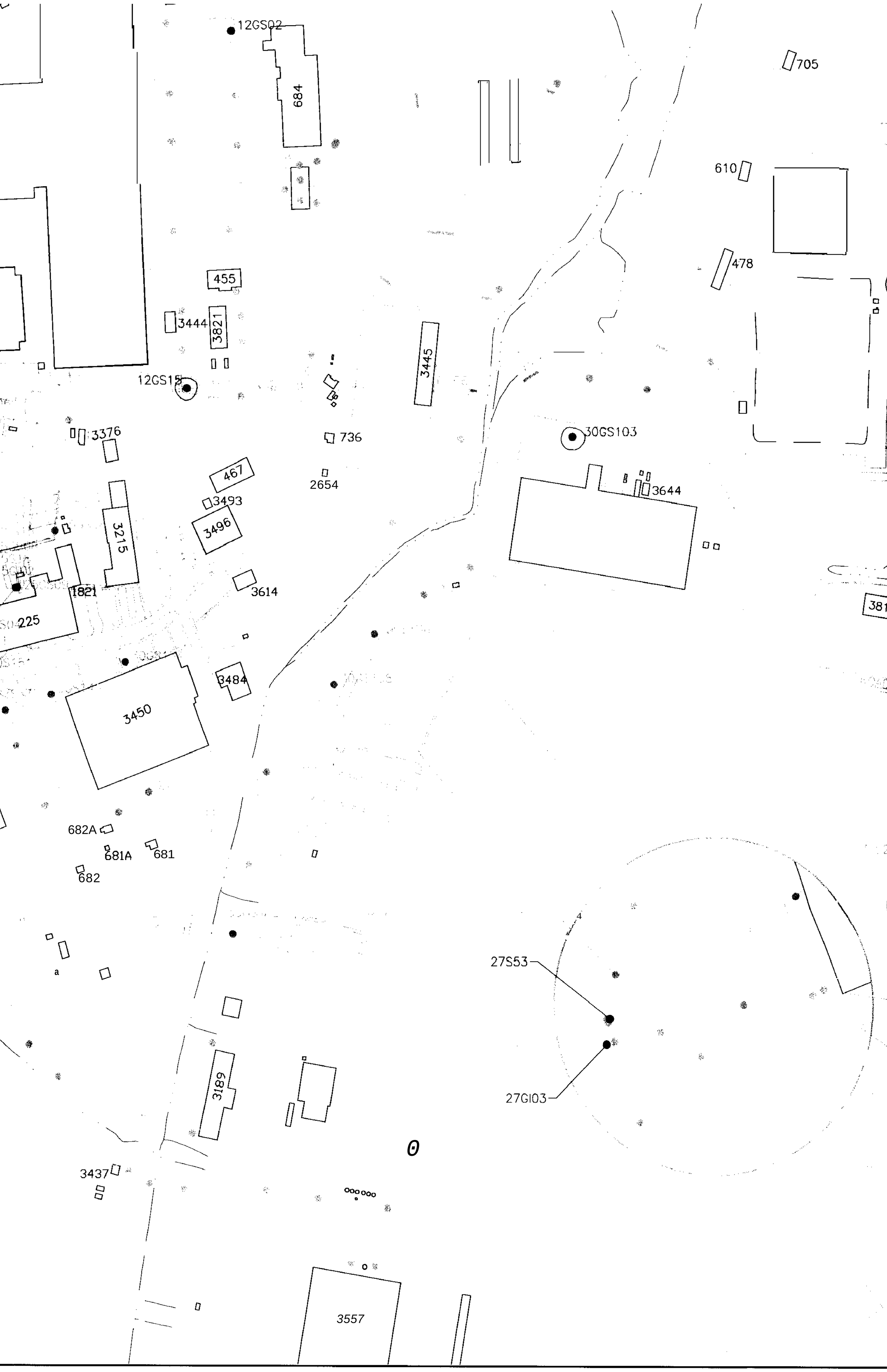
3252
GOLF
COURSE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682A
681A
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682
4
27S53
27GI03
3189
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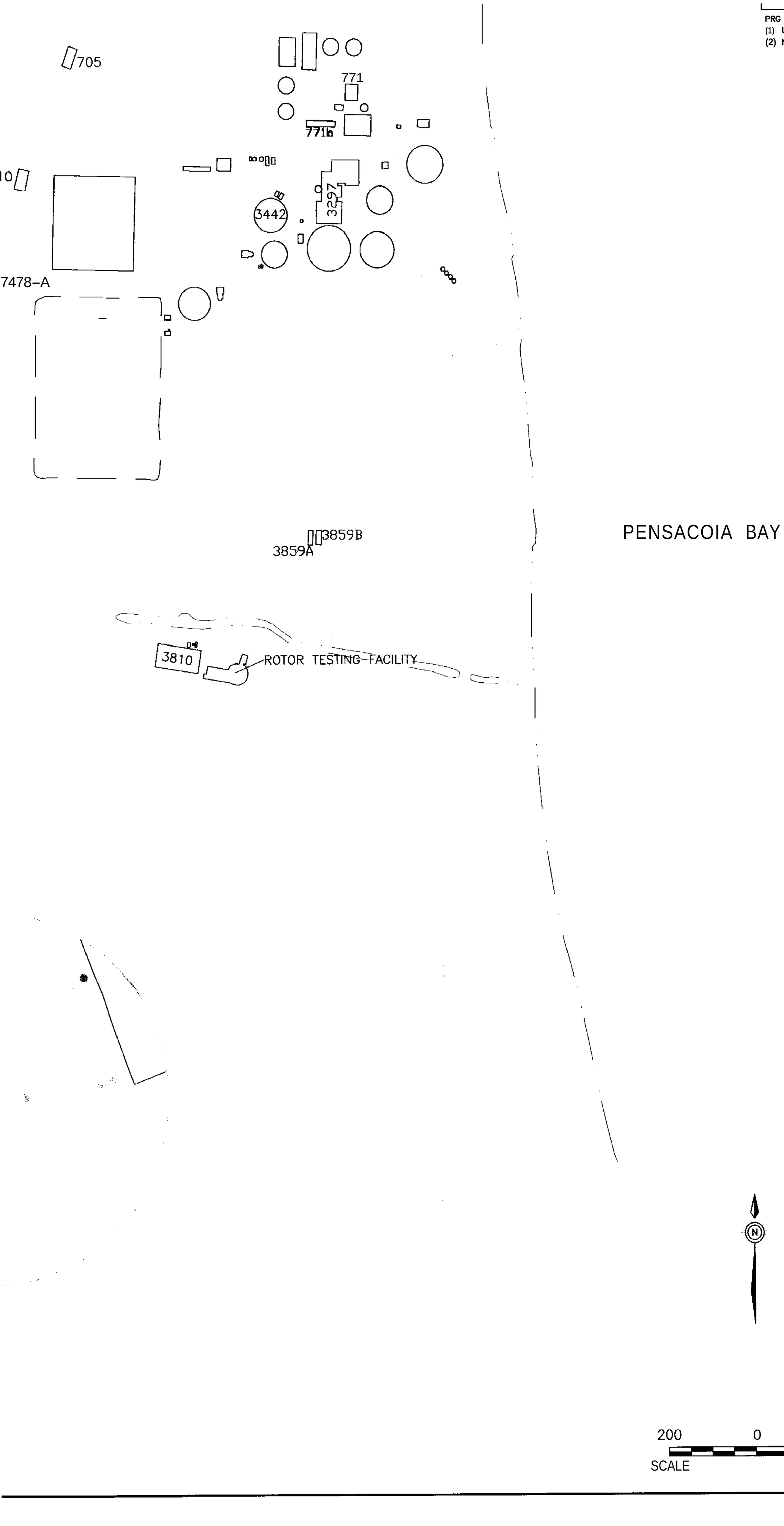
3557

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION



1. HIGHLIGHTED SOIL
ANTIMONY, BERYL1
GRAY SOIL BORIN
BERYLLIUM, **AND/**
2. J VALUE INDICATE
3. ALL CONCENTRATI
4. ALL DEPTHS IN f

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SWRFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- SOIL BORING
- SOIL BORING (EXHIBITING SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES)
- APPROXIMATE AREA OF SURFACE SOIL ANTIMONY CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.
- APPROXIMATE AREA OF SURFACE SOIL BERYLLIUM CONCENTRATIONS EXCEEDING THE USEPA RISK-BASED CONCENTRATION.
- APPROXIMATE AREA OF SURFACE SOIL MERCURY CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 15
SURFACE SOIL ANTIMONY, BERYLLIUM, AND/OR MERCURY EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/07/97	DWG Name: 590U2F14	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES

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774A
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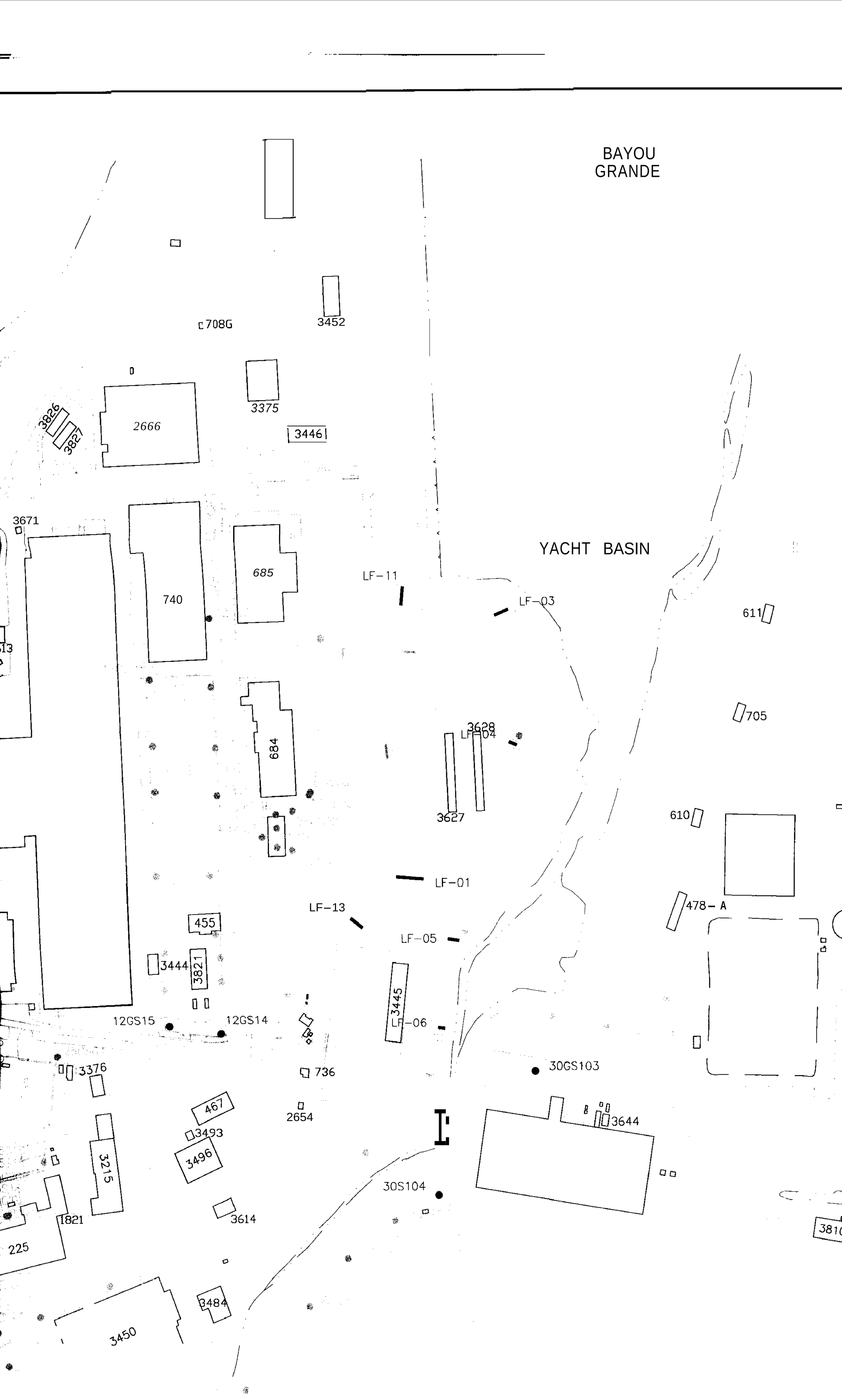
COURSE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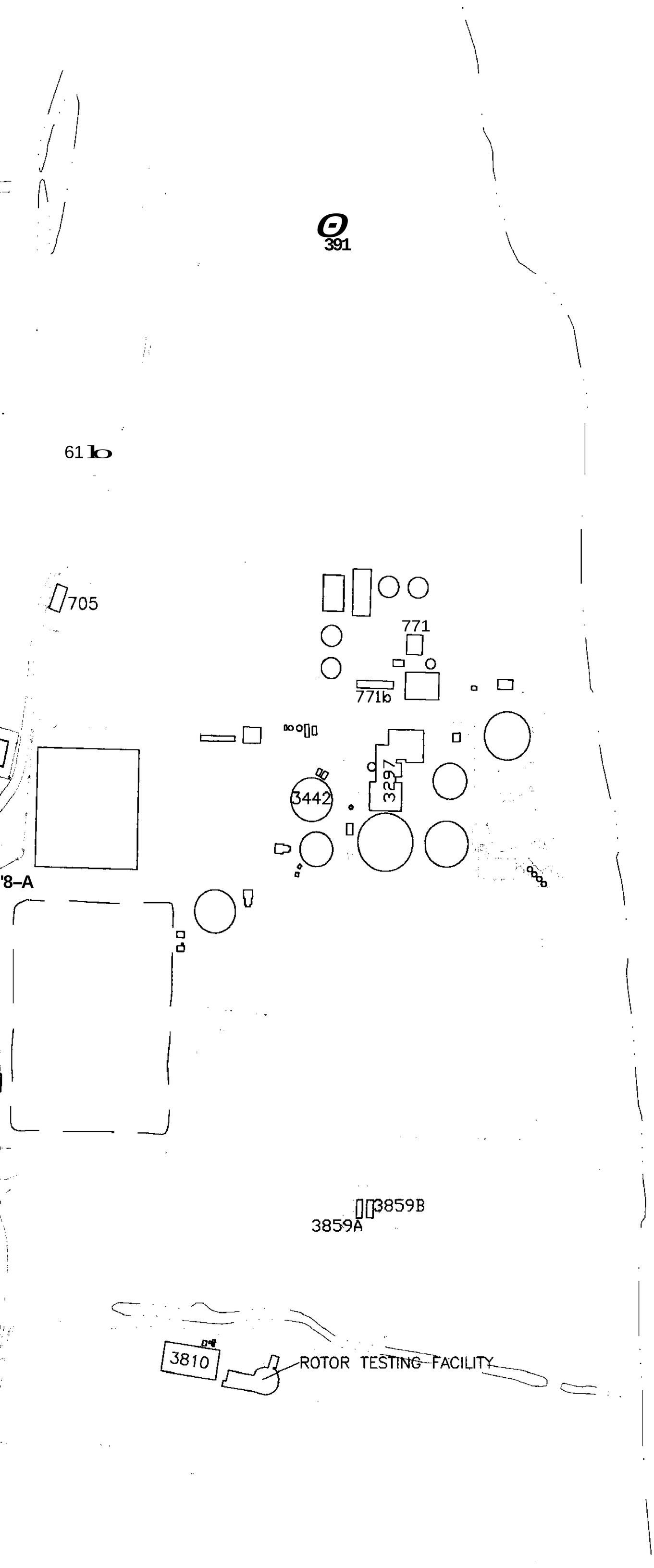
455
LF-05
3444
3821
3445
LF-06
12GS15
12GS14
30GS103
3376
736
467
2654
3493
3496
3644
3215
30S104
1821
3614
225
3484
3450



Site	
PRG (mg/	
11	
12	
30	

PRG = PRELIM

(I) USEPA S

LEGEN

SU

CL

SUBSURFACE SOIL BARIUM EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Barium (Ba)
PRG (mg/kg)				32 (1)
11				
	LF-01	11-S-LF01-09	9	147
	LF-03	11-S-LF03-03	3	482
	LF-04	11-S-LF04-05	5	1150
	LF-05	11-S-LF05-03	3	132
	LF-06	11-S-LF06-04	4	50.4
	LF-11	11-S-LF11-06	6	83.5
	LF-13	11-S-LF13-05	5	383
12				
	12GS14	12-S-0014-05	5	42.6
	12GS15	12-S-0015-05	5	89.1
30				
	30GS20	30-S-0020-06	6	51.3
	30GS103	30-S-0103-04	4	37.7 J
	30GS104	30-S-0104-05	5	53

PRG = PRELIMINARY REMEDIATION GOAL

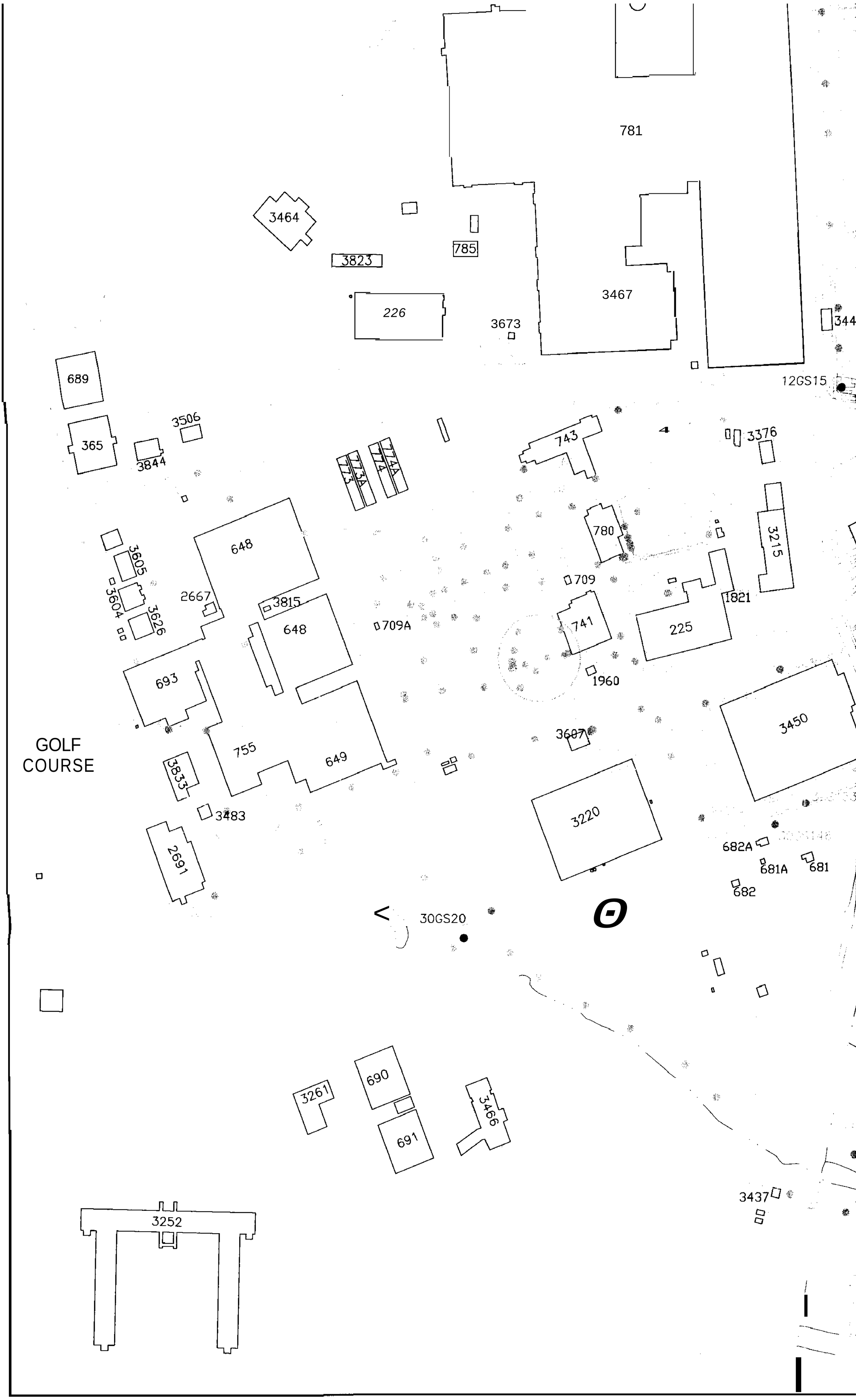
(1) USEPA SOIL SCREENING LEVEL

PENSACOLA BAY

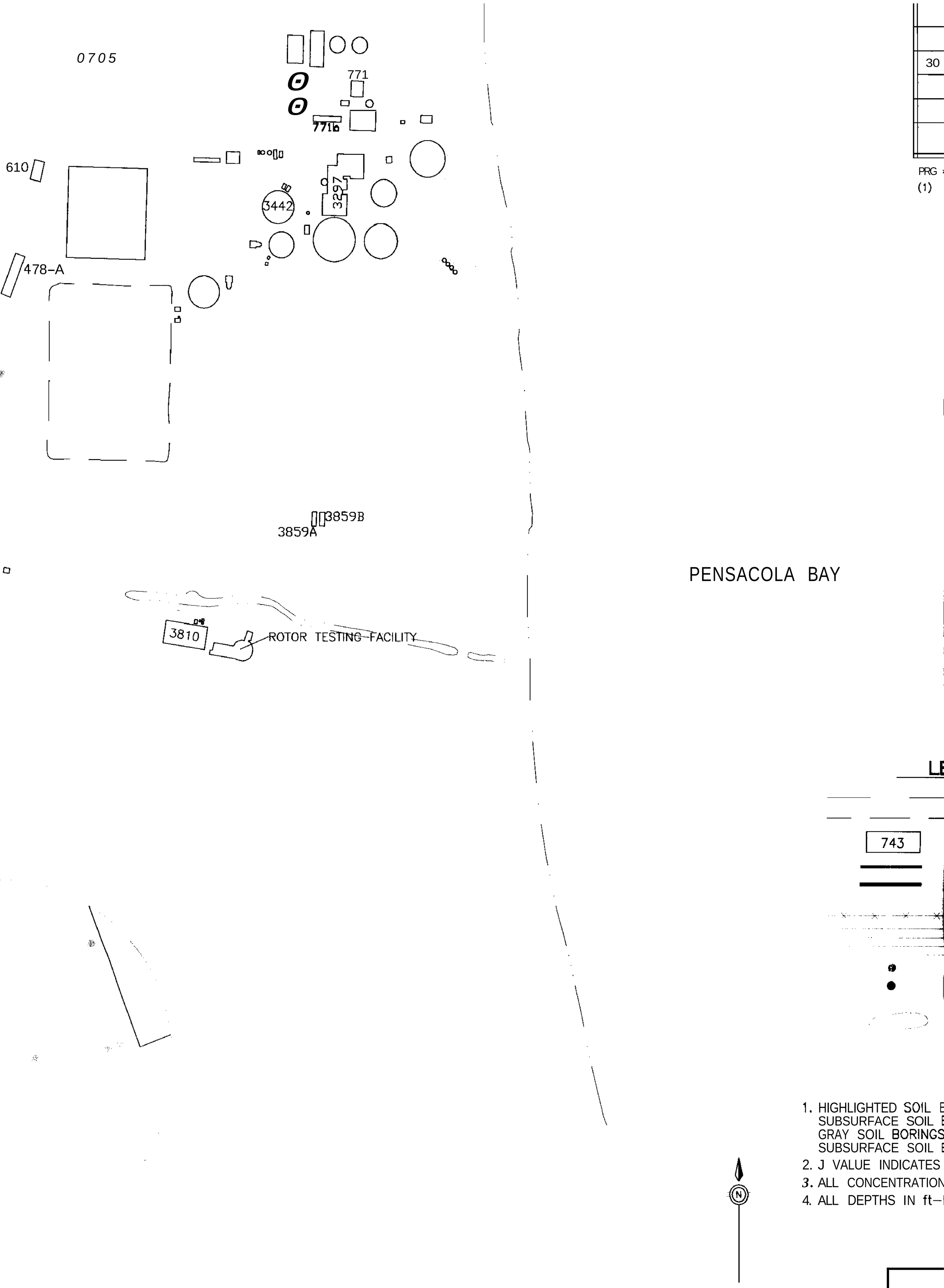
LEGEND

SURFACE WATER BODY

CLOSED LAGOON


781
3464
785
3823
226
3467
3673
344
12GS15
689
365
3506
3844
743
4
3376
773A
774A
780
3215
648
3605
3604
3626
2667
3815
709
1821
709A
741
225
648
693
1960
3450
755
649
3607
GOLF
COURSE
3833
3483
3220
682A
681A
681
682
2691
30GS20
690
3261
691
3466
3437
3252

684
3628
LF-04
3627
705
610
LF-01
LF-13
478-A
455
LF-05
3444
3821
3445
LF-06
12GS15
12GS14
3376
736
30GS103
467
2654
3493
3644
3496
3215
30S104
1821
3614
225
3810
3484
3450
682A
681A
681
682
3189
3437
3557


0705
771
771b
610
3442
3297
478-A
3859B
3859A
3810
ROTOR TESTING FACILITY
PENSACOLA BAY
30
PRG
(1)
743
1. HIGHLIGHTED SOIL
SUBSURFACE SOIL
GRAY SOIL BORINGS
SUBSURFACE SOIL
2. J VALUE INDICATES
3. ALL CONCENTRATION
4. ALL DEPTHS IN ft-
N
200
0
200
SCALE
FEET

	12GS14	12-S-0014-05	5	42.6
	12GS15	12-S-0015-05	5	89.1
30				
	30GS20	30-S-0020-06	6	51.3
	30GS103	30-S-0103-04	4	*37.7* J
	30GS104	30-S-0104-05	5	*53*

PRG = **PRELIMINARY REMEDIATION GOAL**

(1) **USEPA SOIL SCREENING LEVEL**

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH EXHIBITING SUBSURFACE SOIL **BARIUM** EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

SOIL BORING

SOIL BORING (EXHIBITING SUBSURFACE SOIL **BARIUM** EXCEEDANCES)

APPROXIMATE AREA OF SUBSURFACE SOIL BARIUM CONCENTRATIONS EXCEEDING THE USEPA RISK-BASED CONCENTRATION.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SUBSURFACE SOIL BARIUM EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF SUBSURFACE SOIL BARIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200

SCALE FEET

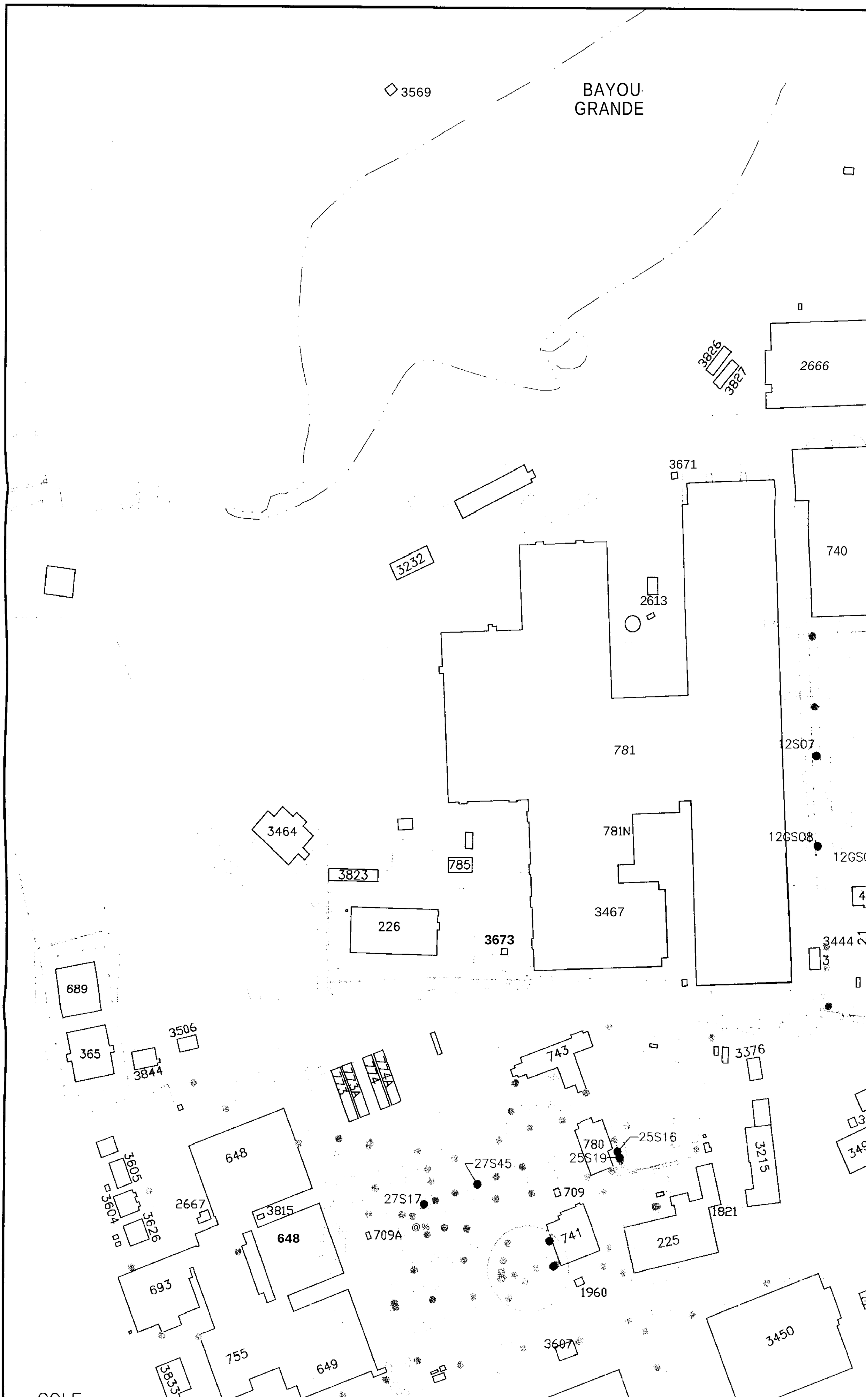
NAS PENSACOLA
OPERABLE UNIT *2*

FIGURE 16
SUBSURFACE SOIL
BARIUM EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
	App by: H. BEIRO	Sheet 1
Date: **07/05/97**	DWG Name: 590U2F15	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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BAYOU
GRANDE
3826
3827
2666
3671
740
3232
2613
781
12S07
3464
781N
12GS08
785
3823
3467
226
3673
3444
689
365
3506
3844
743
3376
773
773A
774
774A
780
25S16
25S19
3215
648
3605
3604
3626
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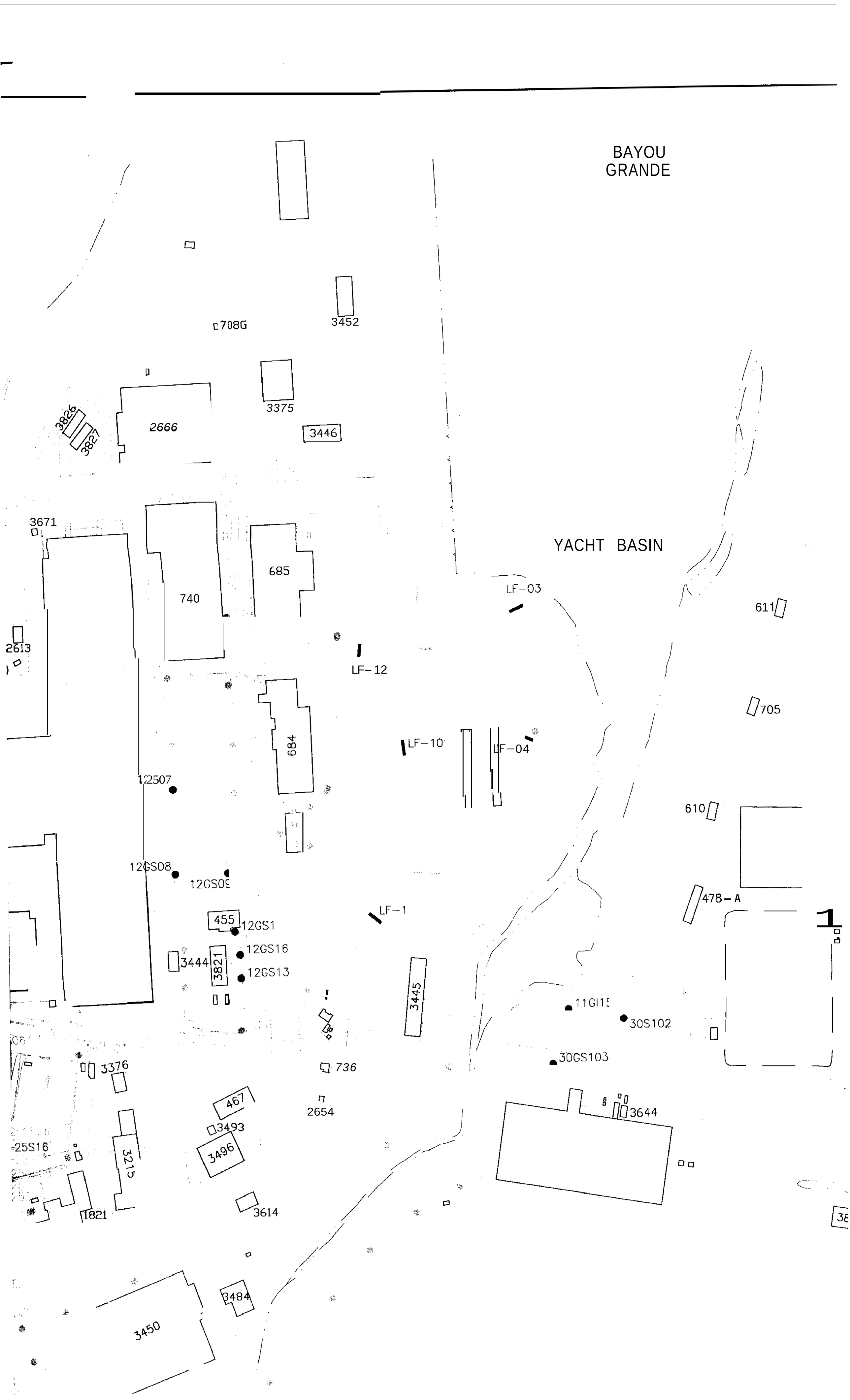
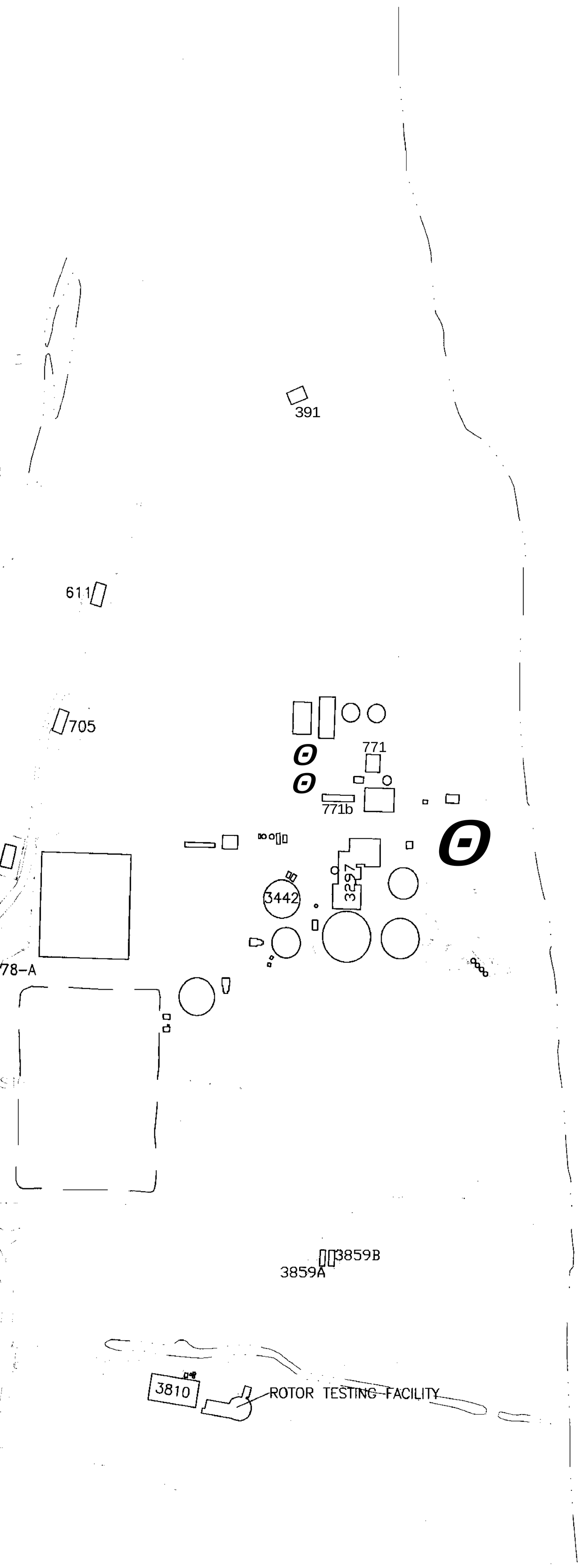
755
649
3607
3450
3833


BAYOU
GRANDE
YACHT BASIN
708G
3452
3375
3826
3827
2666
3446
3671
685
740
LF-03
611
2613
LF-12
705
684
LF-10
LF-04
12507
610
12GS08
12GS09
478-A
LF-1
455
12GS1
12GS16
3444
3821
12GS13
3445
11GI15
30S102
30GS103
3376
736
467
2654
3493
3496
3644
25S16
3215
1821
3614
3484
3450



PENSACOLA BAY

SUBSURFACE	
Site	Location ID
PRG (mg/kg)	
11	
	11GI15
	LF-03
	LF-04
	LF-10
	LF-12
	LF-13
12	
	t 2507
	12GS08
	12GS09
	12GS10
	12GS10
	12GS10
	12GS13
	12GS16
25	
	25S16
	25S19
27	
	27GS04
	27S17
	27S45
	27S52
30	
	30GS102
	30GS103

PRG = PRELIMINARY R
(1) USEPA SOIL SCRE

LE

743

SUBSURFACE SOIL CADMIUM EXCEEDANCES

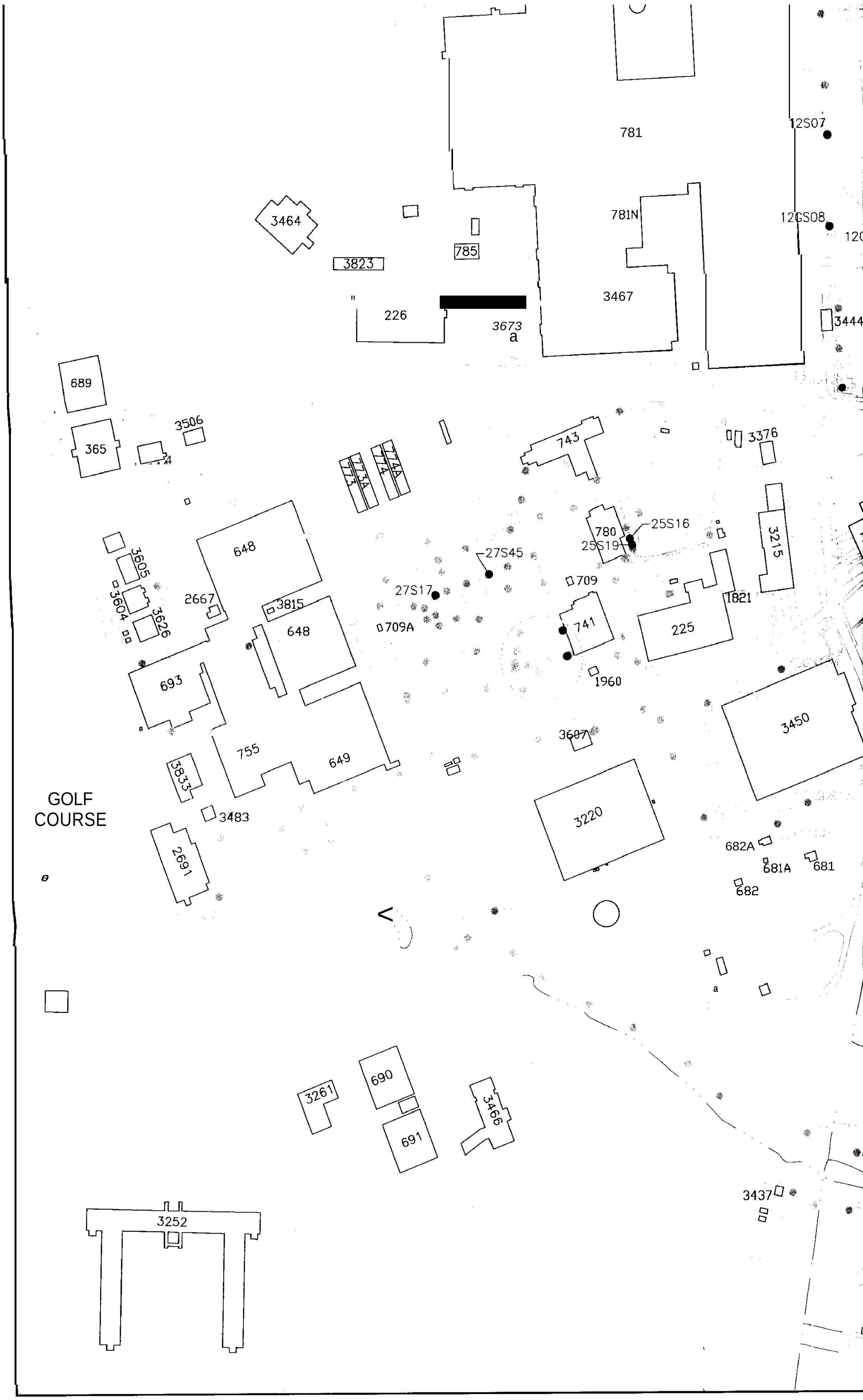
Site	Location ID	Sample ID	Depth ft–bgs	Cadmium (Cd)
PRG (mg/kg)				6 (1)
11				
	11GI15	11–S–I015–06	6	7.4
	LF–03	11–S–LF03–03	3	79.3 J
	LF–04	11–S–LF04–05	5	86.9 J
	LF–10	11–S–LF10–06	6	129
	LF–12	11–S–LF12–06	6	6.4
	LF–13	11–S–LF13–05	5	36.3 J
12				
	12S07	12–S–0007–05	5	10.4
	12GS08	12–S–0008–05	5	6.8
	12GS09	12–S–0009–05	5	13.9 J
	12GS10	12–S–0010–05	5	66.3
	12GS10	12–S–0010–10	10	10.5
	12GS10	12–S–0010–12	12	28.2
	12GS13	12–S–0013–05	5	11.3 J
	12GS16	12–S–0016–10	10	243
25				
	25S16	25–S–0016–02	2	8.7
	25S19	25–S–0019–02	2	6.2
27				
	27GS04	27–S–0004–02	2	12.2
	27S17	27–S–0017–06	6	19.9
	27S45	27–S–0045–02	2	7.9
	27S52	27–S–0052–02	2	19.2
30				
	30GS102	30–S–0102–02	2	14.3 J
	30GS103	30–S–0103–04	4	27.6

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL CADMIUM EXCEEDANCES)
FENCE LINE


781
12S07
781N
12GS08
3464
785
3823
3467
226
3673
a
689
3506
365
743
3376
773A
774A
773
774
780
25S16
25S19
3215
648
3605
27S45
27S17
709
3604
3626
2667
3815
709A
741
1821
225
693
648
1960
3450
3607
755
649
3833
GOLF
COURSE
3220
3483
682A
681A
681
682
2691
a
690
3261
691
3466
3437
3252

LF-12
684
705
LF-10
LF-04
12S07
610
12GS08
12GS09
478
LF-13
455
12GS10
12GS16
3444
3821
12GS13
3445
11GI15
30S102
3376
736
30GS103
467
2654
3493
3644
25S16
3496
3215
1821
3614
225
381
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3450
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681
682
27S52
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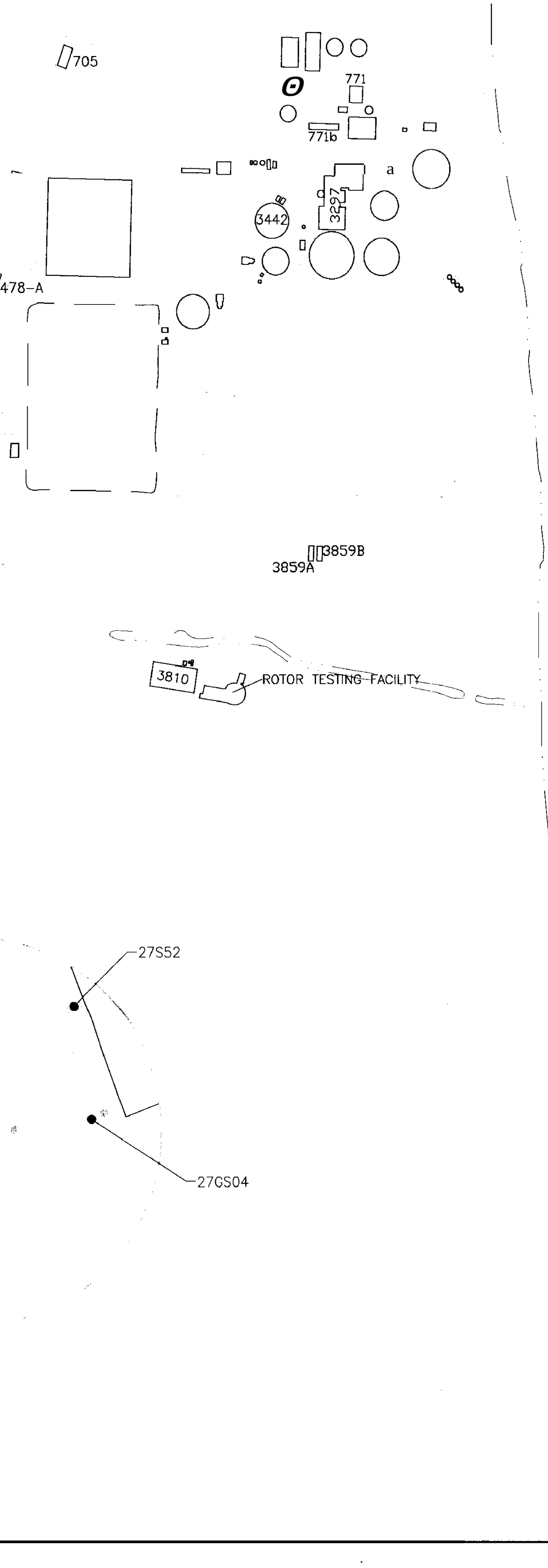
3437
3557



PENSACOLA BAY

	12507
	12GS08
	12GS09
	12GS10
	12GS10
	12GS10
	12GS13
	12GS16
25	
	25S16
	25S19
27	
	27GS04
	27S17
	27S45
	27S52
30	
	30GS10
	30GS10

PRG = PRELIMINARY
(1) USEPA SOIL S

LE

743

1. HIGHLIG
SUBSU
GRAY S
SUBSU
2. J VALU
3. ALL CC
4. ALL DE

200 0 200
SCALE FEET

	12507	12-S-0007-05	5	10.4
	12GS08	12-S-0008-05	5	6.8
	12GS09	12-S-0009-05	5	13.9 3
	12GS10	12-s-0010-05	5	66.5
	12GS10	12-s-0010-10	10	10.5
	12GS10	12-S-0010-12	12	28.2
	12GS13	12-S-0013-05	5 1	11.3 3
	12GS16	12-S-0016-10	10	243
25				
	25516	25-S-0016-02	2	8.7
	25519	25-S-0019-02	2	6.2
27				
	27GS04	27-S-0004-02	2	12.2
	27S17	27-S-0017-06	6	19.9
	27545	27-S-0045-02	2	7.9
	27S52	27-S-0052-02	2	19.2
30				
	30GS102	30-S-0102-02	2	14.3 3
	30GS103	30-S-0103-04	4	27.6

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH {EXHIBITING SUBSURFACE SOIL CADMIUM EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL CADMIUM EXCEEDANCES)
APPROXIMATE AREA OF SUBSURFACE SOIL CADMIUM CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SUBSURFACE SOIL CADMIUM EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF SUBSURFACE SOIL CADMIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

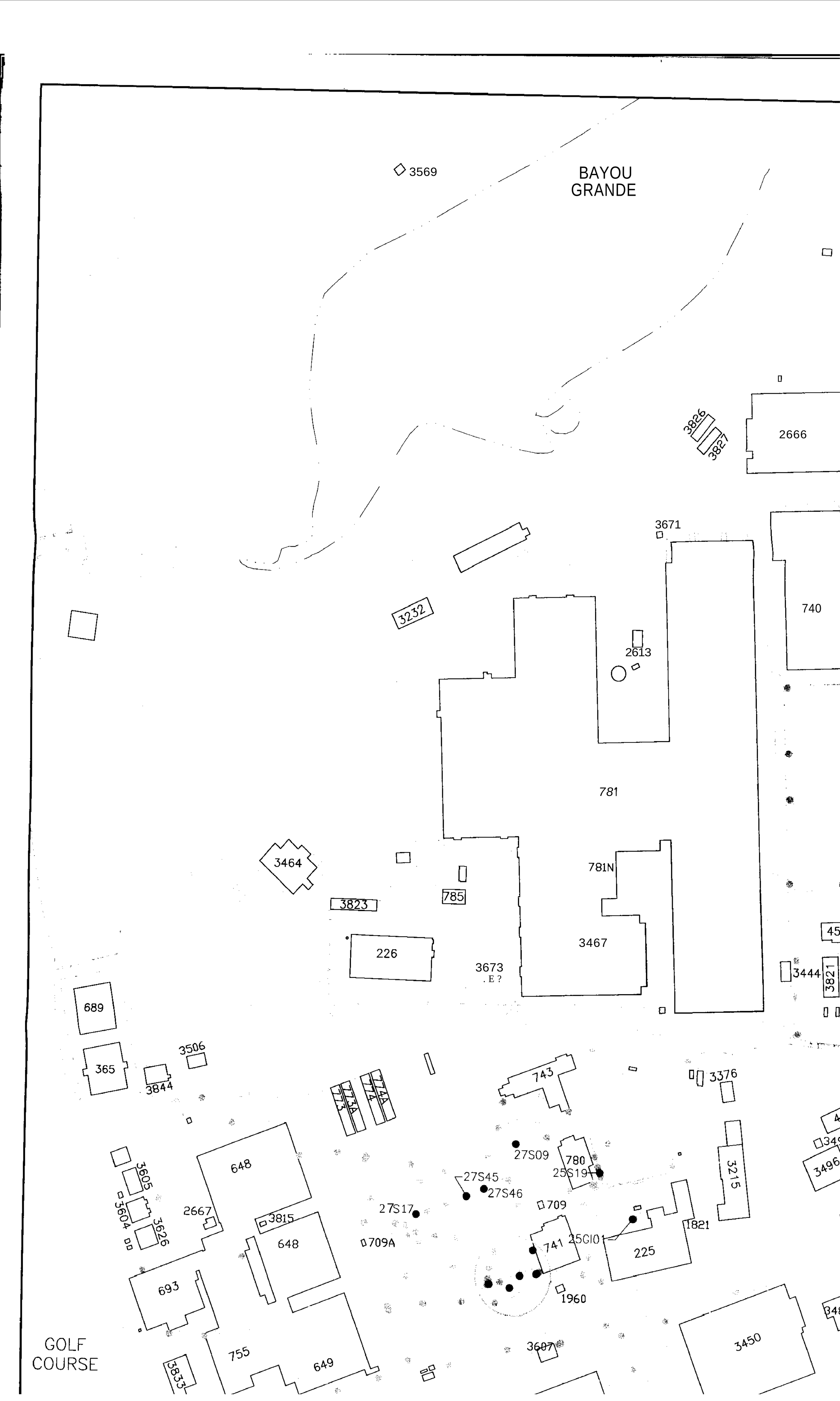
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 17
SUBSURFACE SOIL CADMIUM EXCEEDANCES

Dr by KB/E/A&H	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/05/97	DWG Name: 590U2F79	Of 1

SECTIONS TO FOLLOW ON


3569
BAYOU
GRANDE
3826
3827
2666
3671
740
3232
2613
781
781N
3464
785
3823
226
3467
3673
. E ?
3444
3821
689
365
3506
3844
773A
773
774A
774
743
3376
27S09
780
25S19
27S45
27S46
3215
3496
648
3605
3604
3626
2667
3815
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1960
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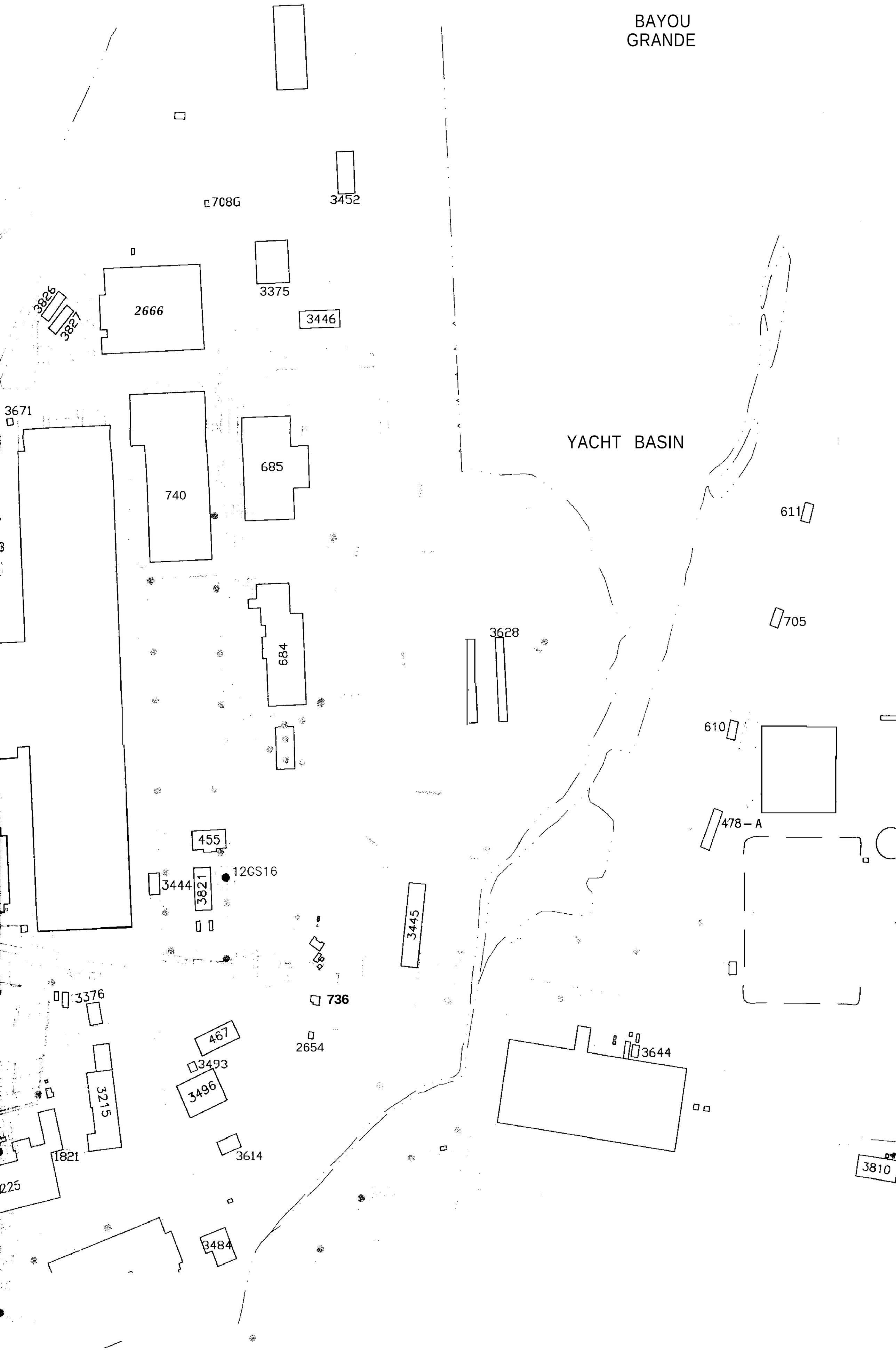
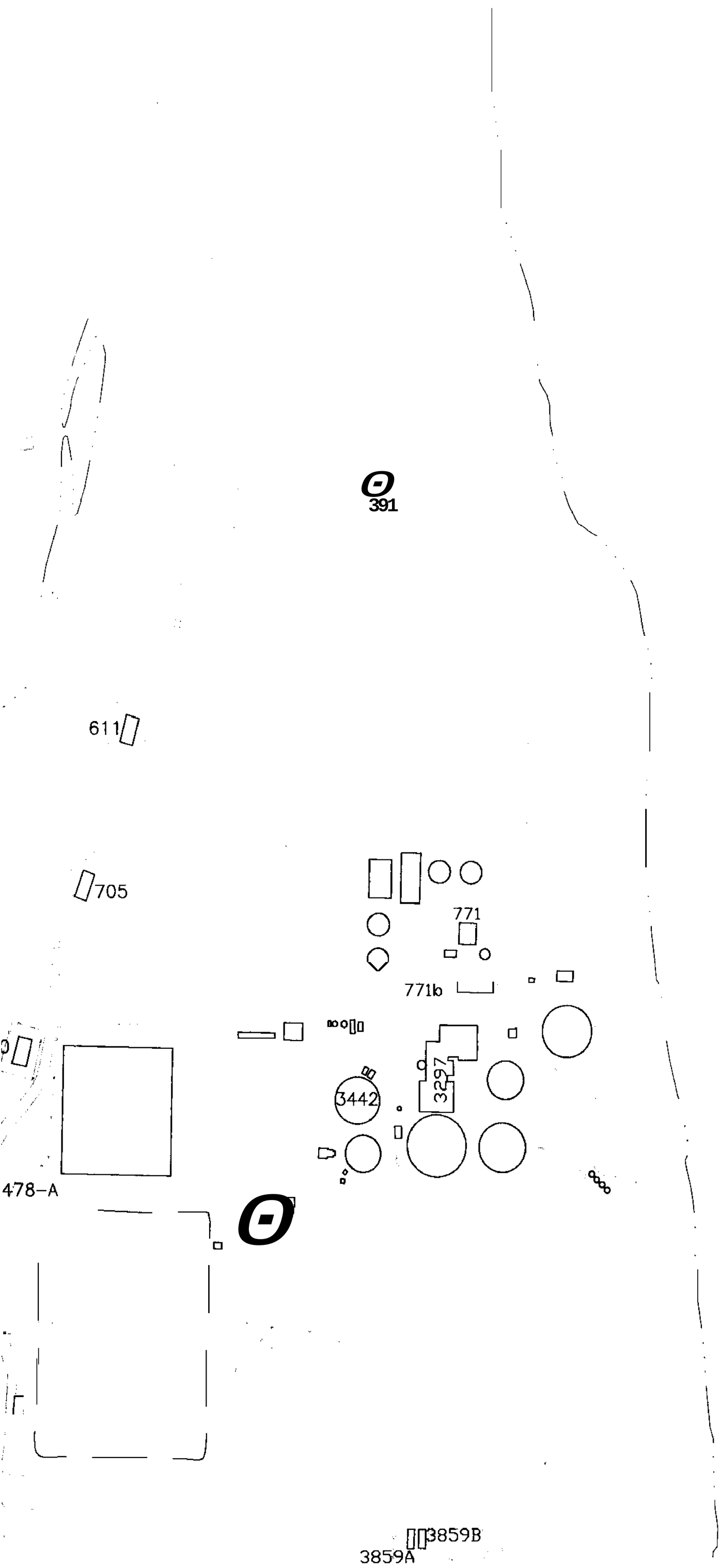
3607
3450
3833
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
708G
3452
3375
3826
3827
2666
3446
3671
740
685
611
705
684
3628
610
478 – A
455
12GS16
3444
3821
3445
3376
736
467
2654
3493
3496
3644
3215
1821
3614
3810
225
3484



SUBS	
Site	
PRG (mg/k	
12	
25	
27	

PRG = PREC
(1) USEPA

743

SUBSURFACE SOIL CHROMIUM EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Chromium (Cr)
PRG (mg/kg)				19 (1)
12				
	12GS16	12-S-0016-10	10	*203* J
25				
	25S19	25-S-0019-02	2	**34.7**
	25GI01	25-S-0008-57	57	28.4
27				
	27GS04	**27-S-0004-02**	**2**	120
	27GS04	27-S-0004-14	14	40.6
	27S09	**27-S-0009-02**	2	20.1
	27S17	27-S-0017-02	2	21
	27S17	27-S-0017-04	4	25.4
	27GS08	27-S-0020-02	2	29.5
	27S21	27-5-0021-02	2	**53.4**
	27522	27-S-0022-14	14	*32*
	27S45	27-S-0045-02	2	31.8
	27S46	27-S-0046-02	2	20.9
	27552	27-S-0052-02	2	*253*
	27552	27-S-0052-04	**4**	146

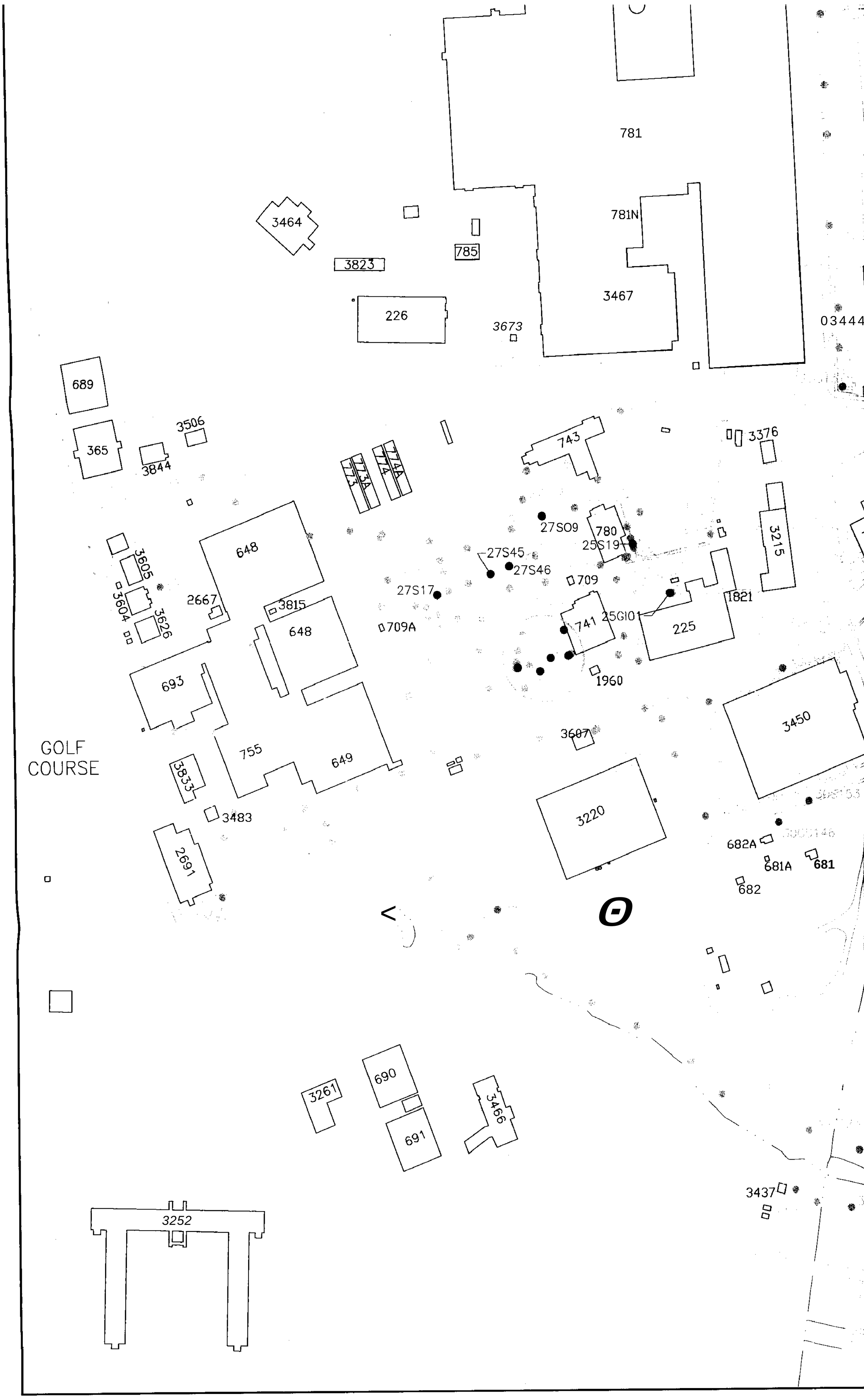
PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATIONS

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL CHROMIUM EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL CHROMIUM EXCEEDANCES)

APPROXIMATE **AREA** OF SUBSURFACE SOIL CHROMIUM CONCENTRATIONS EXCEEDING USEPA RISK-BASED CONCENTRATIONS.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774A
773
774
27S09
780
25S19
27S45
27S46
709
3215
3605
648
27S17
3604
2667
3815
3626
709A
741
25G10
1821
225
648
693
1960
3450
3607
GOLF
COURSE
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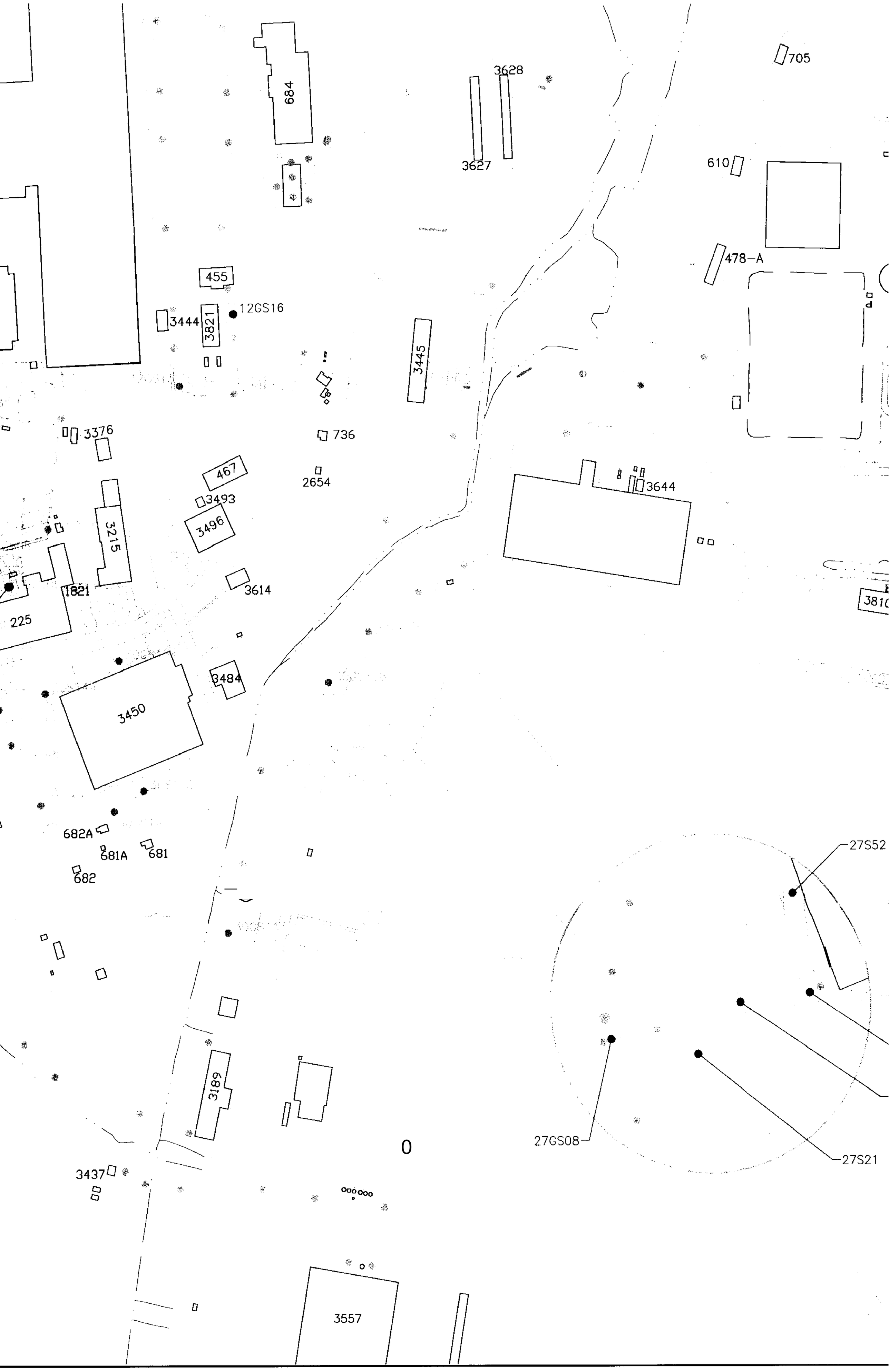
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478-A
455
12GS16
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3821
3445
3376
736
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2654
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3215
3644
1821
3614
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3484
3450
682A
681A
681
682
27S52
27GS08
27S21
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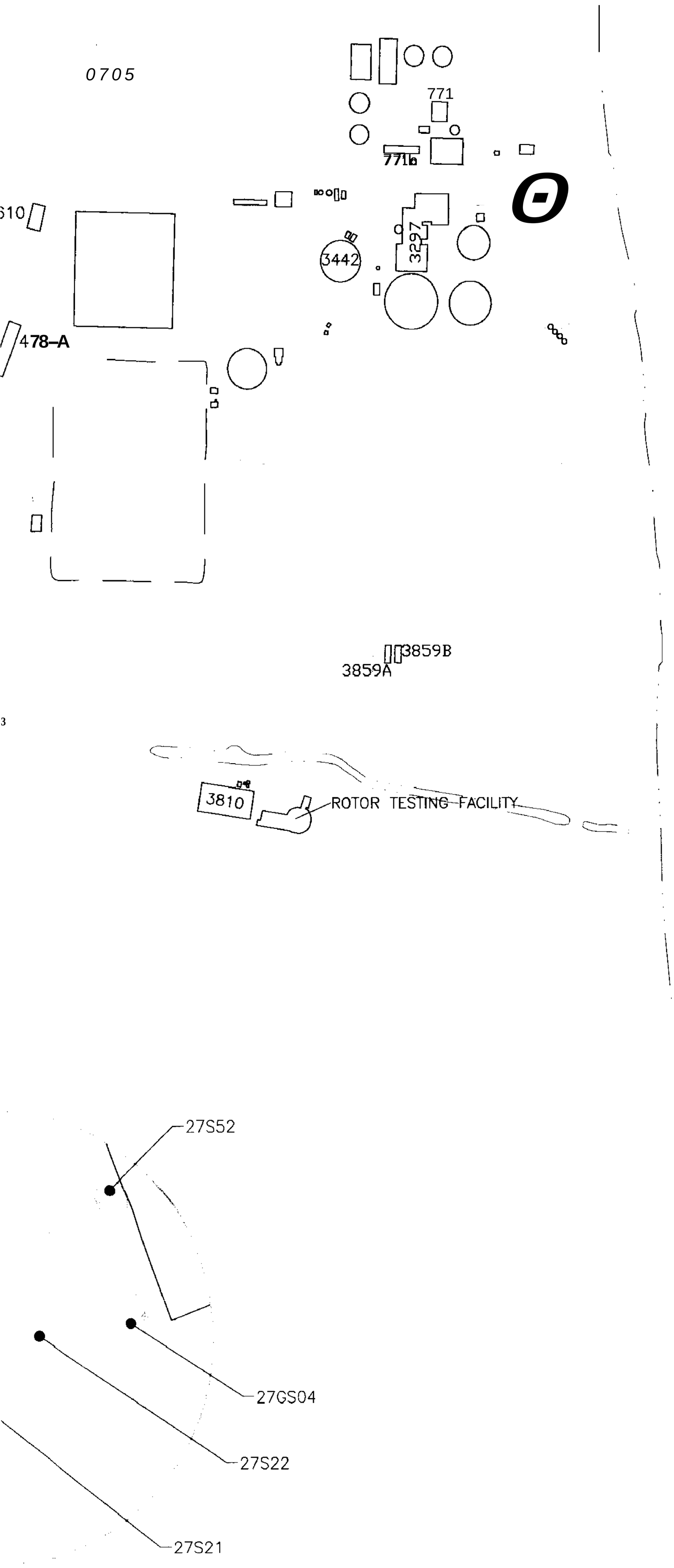
3437
3557



PENSACOLA BAY

743

PRG = P
(1) USEI

1. HIGHLIGHTED
SUBSURFACE
GRAY SOIL BO
SUBSURFACE
2. 3 VALUE INDIC
3. ALL CONCENTI
4. ALL DEPTHS 1

200 0 200
SCALE FEET

	27GS04	27-S-0004-02	2	120
	27GS04	27-S-0004-14	14	**40.6**
	27509	27-S-0009-02	2	20.1
	27517	27-S-0017-02	2	21
	27517	27-S-0017-04	4	**23.4**
	27GS08	27-S-0020-02	2	29.5
	27521	27-S-0021-02	2	**53.4**
	27522	27-S-0022-14	14	32
	27545	27-S-0045-02	2	31.8
	27546	27-S-0046-02	2	20.9
	27552	27-S-0052-02	2	*253*
	27552	27-S-0052-04	4	146

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA RISK-BASED CONCENTRATIONS

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL CHROMIUM EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL CHROMIUM EXCEEDANCES)
APPROXIMATE AREA OF SUBSURFACE SOIL CHROMIUM CONCENTRATIONS EXCEEDING USEPA RISK-BASED CONCENTRATIONS.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF SUBSURFACE SOIL CHROMIUM EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF SUBSURFACE SOIL CHROMIUM EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

200 0 200
SCALE FEET

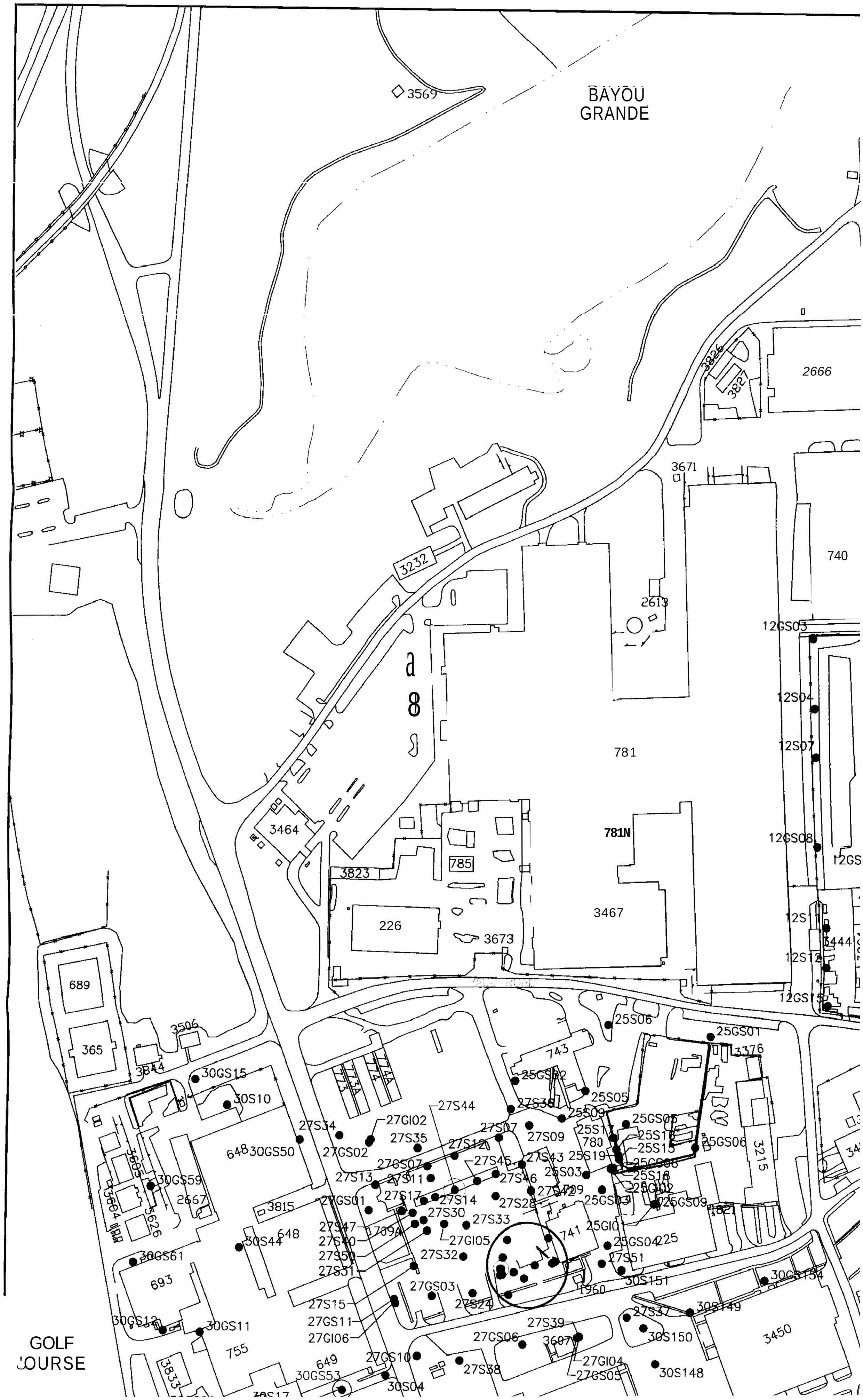
NAS PENSACOLA
OPERABLE UNIT 2

by:

Date: 07/09/97 | DWG Name: 590U2F17 | Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU
GRANDE
3569
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12S04
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12GS08
3464
785
3823
226
3467
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365
3506
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30GS15
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30GS50
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27GI02
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25GI01
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27S51
30S151
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30S150
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30S148
27GI04
27GS05
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27GS06
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27S39
27GS10
30S04
649
30GS53
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30GS11
30GS12
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30GS61
30S44
27S47
27S40
27S50
27S31
27S15
27GS11
27GI06
27GS03
27S24
27S32
27GI05
27S30
27S33
27S14
27S28
27S17
27GS01
27S13
27S11
27S46
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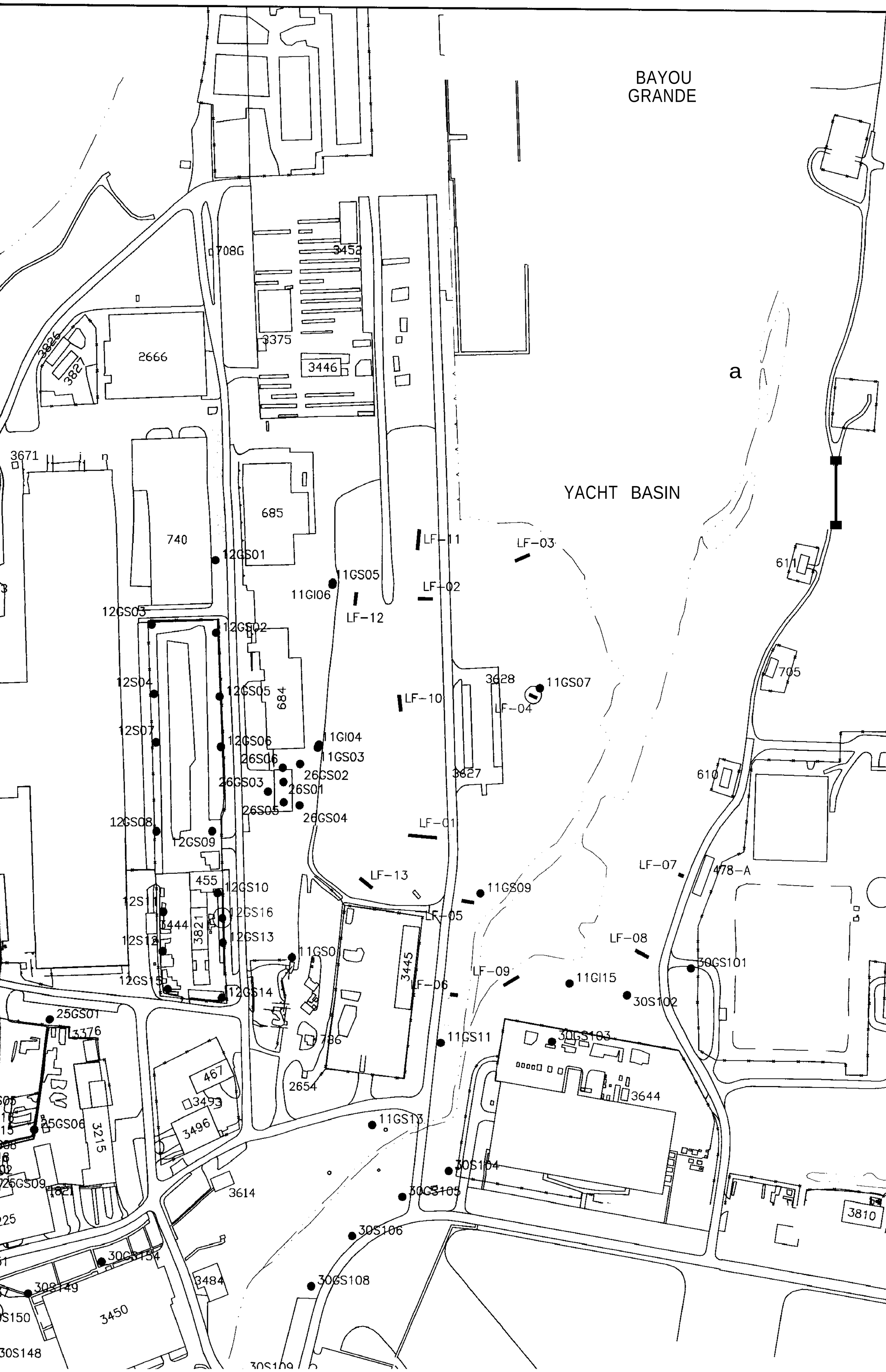
3815
3605
3604
3626
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
a
708G
3452
3375
3446
2666
3826
3827
3671
740
685
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11GS05
11GI06
LF-12
LF-11
LF-03
LF-02
12GS03
12GS02
12S04
12GS05
684
12S07
12GS06
11GI04
11GS03
26S06
26GS02
26GS03
26S01
26S05
26GS04
12GS08
12GS09
LF-10
3628
11GS07
LF-04
3627
LF-01
611
705
610
478-A
LF-07
LF-13
11GS09
455
12GS10
12S11
12GS16
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12GS13
LF-05
11GS0
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LF-06
LF-09
LF-08
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12GS15
12GS14
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3376
786
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467
2654
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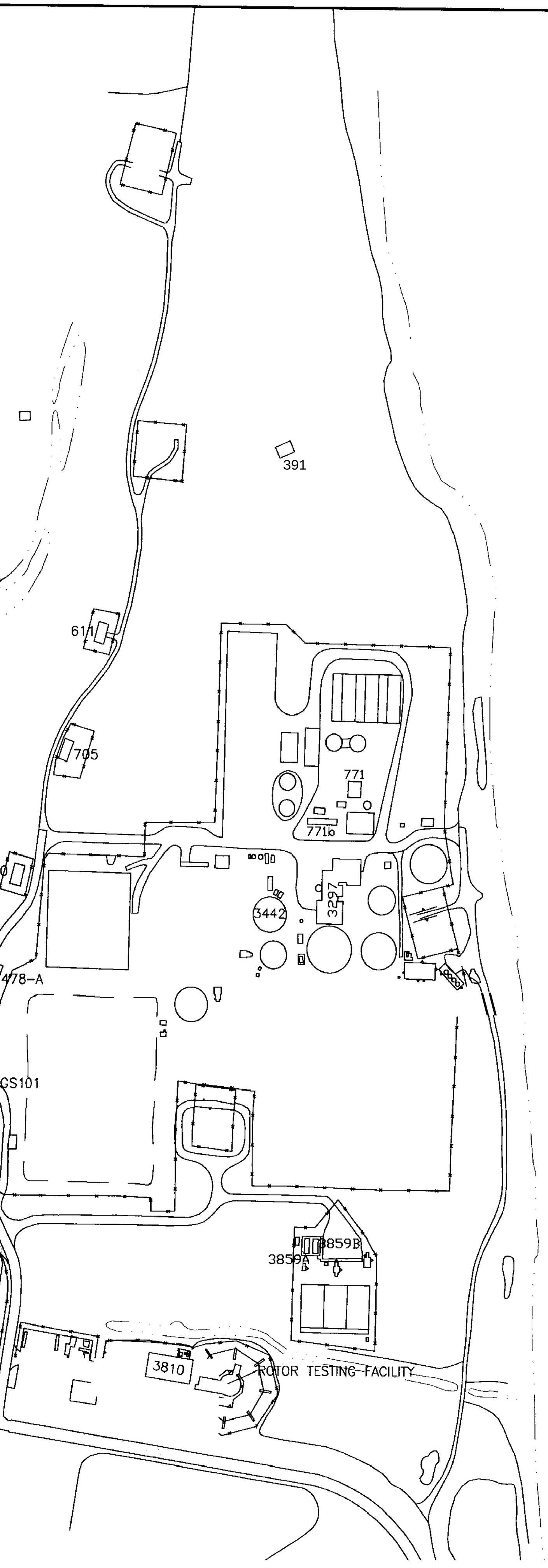


SUBSURFACE SOIL ARSENIC, MERCURY,

Site	Location ID	Sample ID	Depth ft-bgs	
PRG (mg/kg)				
11				
	LF-01	11-S-LF01-09	9	1
	LF-04	11-S-LF04-05	5	
12				
	12GS16	12-S-0016-10	10	
[illegible]				
	27S44	27-S-0044-02	2	
	27S53	27-S-0053-02	2	
30				
	30GS53	30-S-0053-10	10	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL

LE

743

PENSACOLA BAY

1. H
M

SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL, AND SELENIUM EXCEEDANCES

Site	Location ID	Sample ID	Depth ft-bgs	Arsenic (As)	Mercury (Hg)	Nickel (Ni)	Selenium (Se)
PRG (mg/kg)				0.43 (1)	3 (1)	21 (1)	3 (1)
11							
	LF-01	11-S-LF01-09	9 1	15.8			**20.1**
	LF-04	11-S-LF04-05	5			43.3	
12							
	12GS16	12-S-0016-10	10			50.7	
27							
	27544	27-S-0044-02	2		10.2		
	27S53	27-S-0053-02	2		3.4		
30							
	30GS53	30-S-0053-10	10			21.2	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL

SACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

SOIL BORING

SOIL BORING (EXHIBITING SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM EXCEEDANCES)

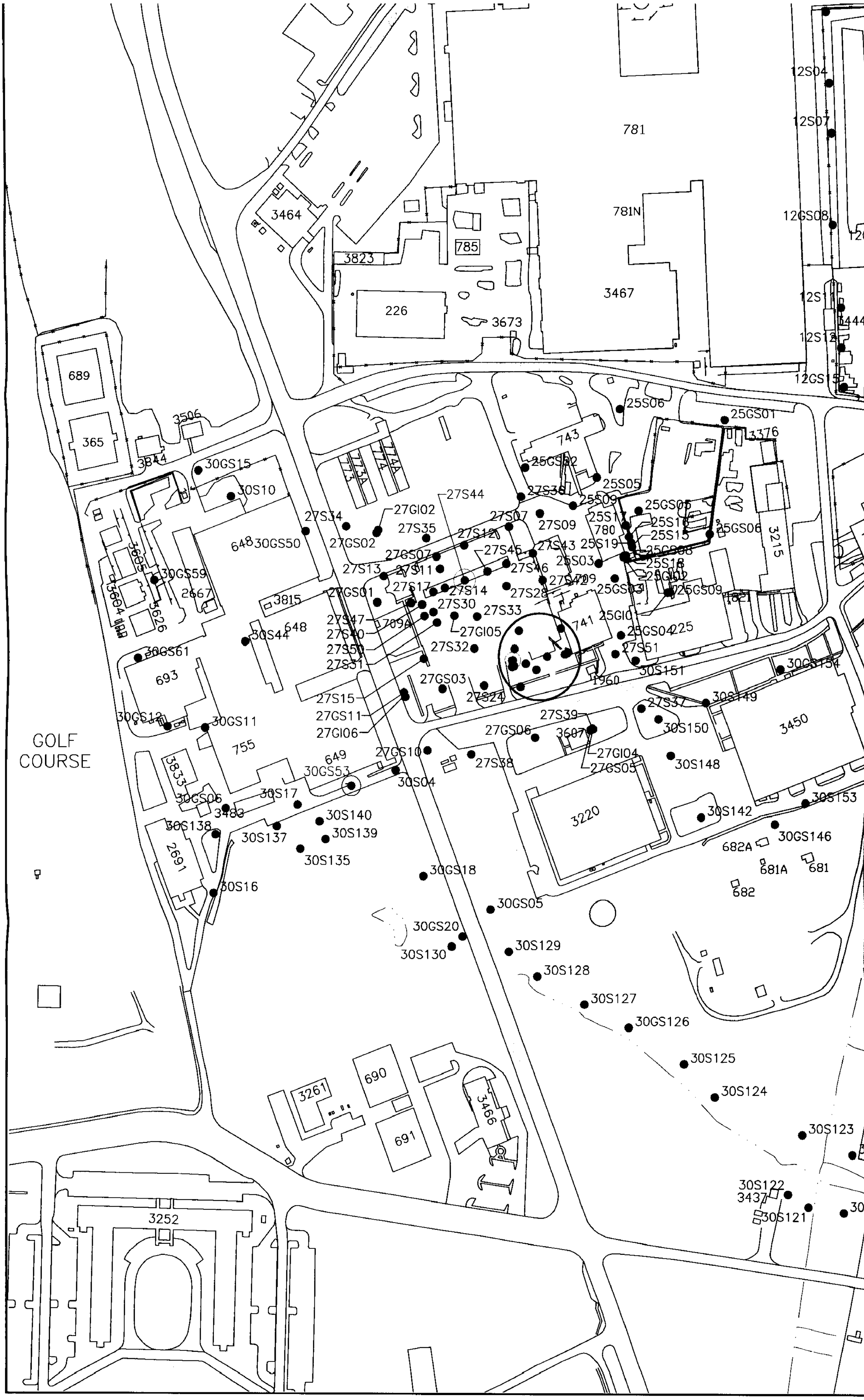
APPROXIMATE AREA OF SUBSURFACE SOIL ARSENIC AND SELENIUM CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL MERCURY CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL NICKEL CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM SUBSURFACE SOIL EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY ARSENIC, MERCURY,


781
781N
3467
12S04
12S07
12GS08
12S11
12S12
12GS15
3464
3823
785
226
3673
689
365
3506
3844
30GS15
30S10
648
30GS50
27S34
27GI02
27S35
27GS02
27S44
27S07
27S09
27S12
27S43
27S45
27S46
27S13
27S11
27GS07
27S17
27S14
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27S33
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3815
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2667
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3604
3626
30S44
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693
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27S40
27S50
27S31
709A
27GI05
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27GS03
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27S15
27GS11
27GI06
30GS12
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755
649
30GS53
27GS10
30S04
27S38
27S39
27GS06
3607
27GI04
27GS05
30S17
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3483
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30GS126
30S125
30S124
30S123
30S122
3437
30S121
3261
690
691
3466
3252
GOLF
COURSE
25S06
25GS01
3376
743
25GS02
25S05
25S09
25GS05
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25S16
25S15
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25GS08
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25GS09
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1960
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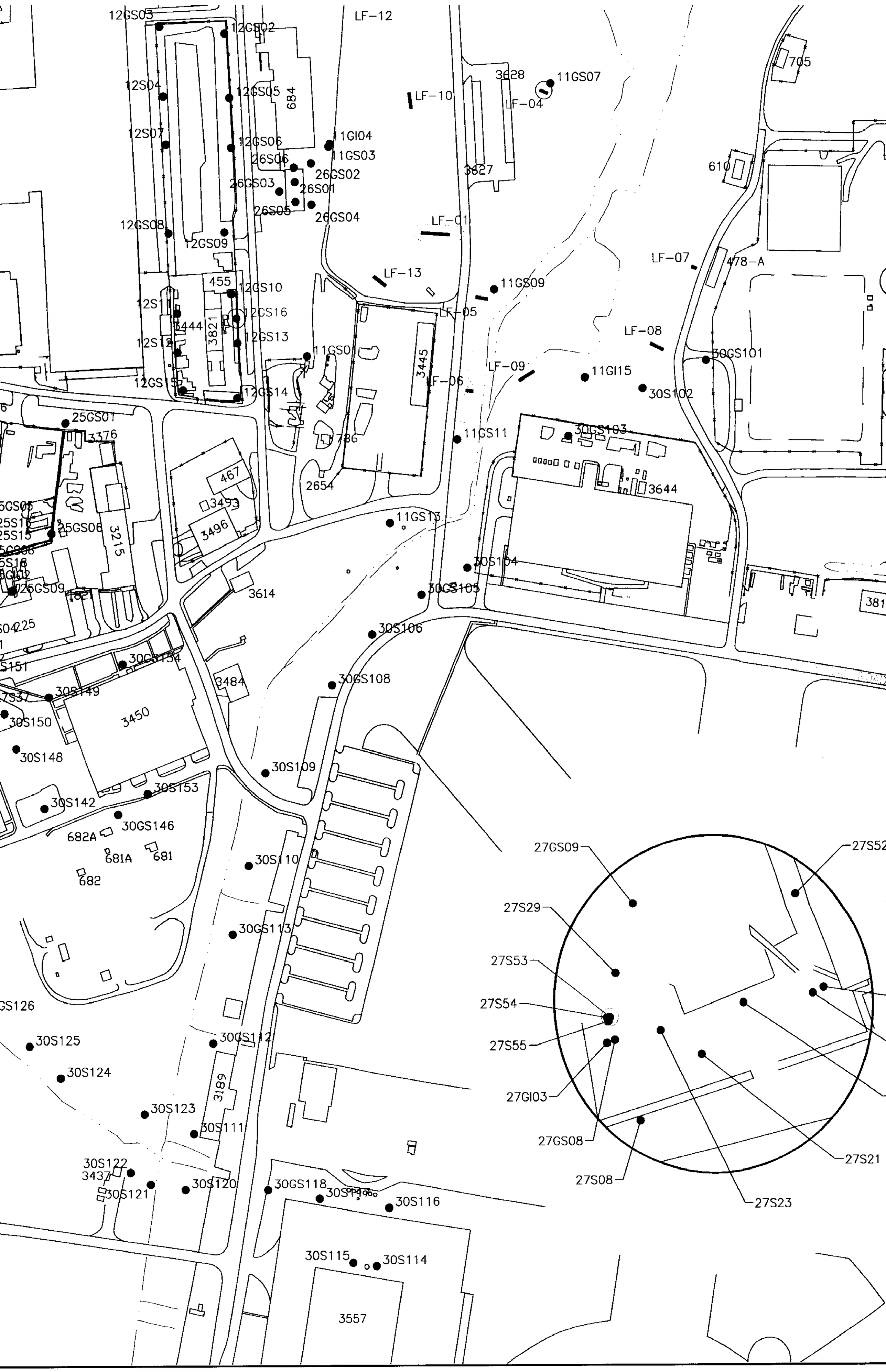
3220
30GS146
682A
681A
681
682
3215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12GS02
LF-12
12S04
12GS05
684
12S07
12GS06
11GI04
11GS03
26GS06
26GS02
26GS03
26S01
26GS05
26GS04
12GS08
12GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
12GS15
12GS14
11GS0
3445
LF-06
LF-13
LF-05
3628
11GS07
LF-10
LF-04
3627
LF-01
11GS09
LF-07
705
610
478-A
LF-08
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LF-09
11GI15
30S102
11GS11
30GS103
3644
25GS01
3376
467
3493
3496
2654
11GS13
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3614
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30S149
3450
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30S153
30S142
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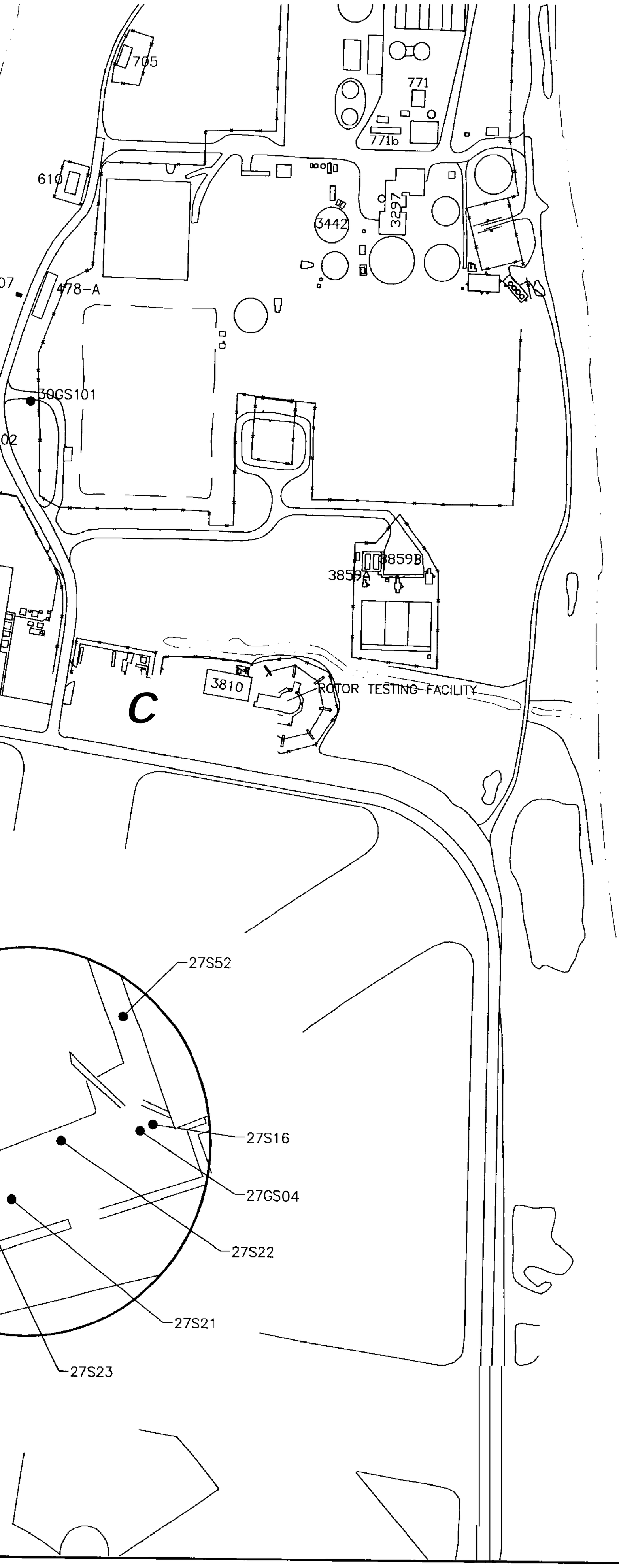
682A
681A
681
682
30S110
30GS113
30S125
30GS112
30S124
3189
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S116
30S115
30S114
3557
27GS09
27S52
27S29
27S53
27S54
27S55
27GI03
27GS08
27S08
27S21
27S23

	12GS16	12-S-0016-10
27		
	27S44	27-S-0044-02
	27S53	27-S-0053-02
30		
	30GS53	30-S-0053-10

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA SOIL SCREENING LEVEL



PENSACOLA 8AY

	12GS16	12-S-0016-10	10			***50.7***	
27							
	27544	27-S-0044-02	2		10.2		
	27S53	27-S-0053-02	2		3.4		
30							
	30GS53	30-S-0053-10	10			21.2	

PRG = PRELIMINARY **REMEDIATION GOAL**
(1) **USEPA SOIL SCREENING** LEVEL

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
SOIL BORING
SOIL BORING (EXHIBITING SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM EXCEEDANCES)

ENSACOLA BAY

APPROXIMATE **AREA** OF SUBSURFACE SOIL ARSENIC **AND** SELENIUM CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL MERCURY CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL.

APPROXIMATE AREA OF SUBSURFACE SOIL NICKEL CONCENTRATIONS EXCEEDING THE USEPA SOIL SCREENING LEVEL,

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM SUBSURFACE SOIL EXCEEDANCES. GRAY SOIL BORINGS INDICATE THE ABSENCE OF **ANY** ARSENIC, MERCURY, NICKEL, AND/OR SELENIUM SUBSURFACE SOIL EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

N

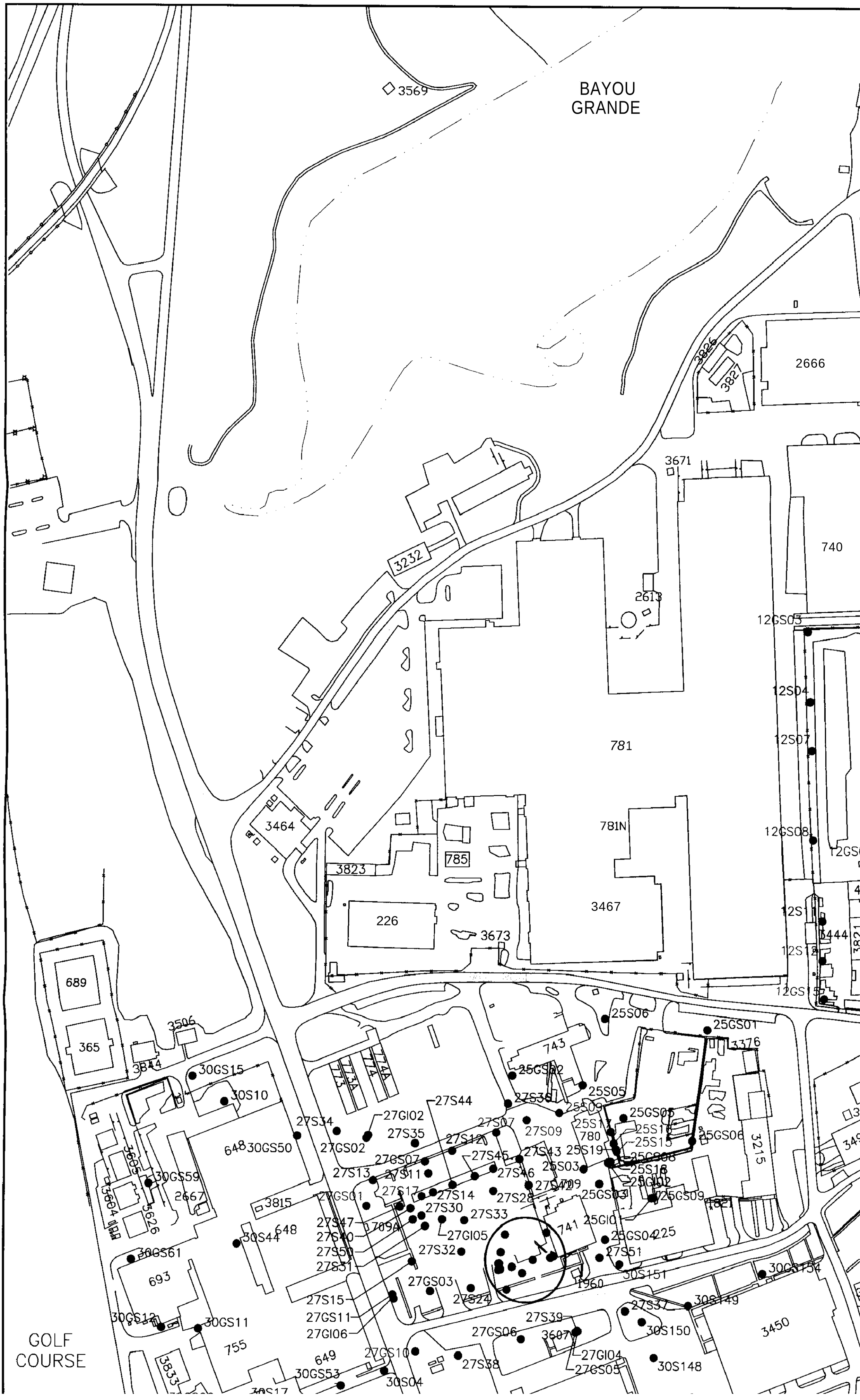
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 19
SUBSURFACE SOIL ARSENIC, MERCURY, NICKEL AND/OR SELENIUM EXCEEDANCES

Dr by: K. BRONSON	Proj. **Code: 0059-00037**	
Ck by: JPG	App by: H. BEIRO	**Sheet** 1
Dote: **07/05/97**	DWG Name: 590U2F80	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
2613
3232
12GS03
12S04
12S07
781
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12GS08
3464
785
3823
226
3467
3673
12S11
3444
12S12
12GS15
689
365
3506
3844
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25S06
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27S44
27S36
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25GS05
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27S07
27S09
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25S15
25GS06
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25S18
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3626
27S47
709A
741
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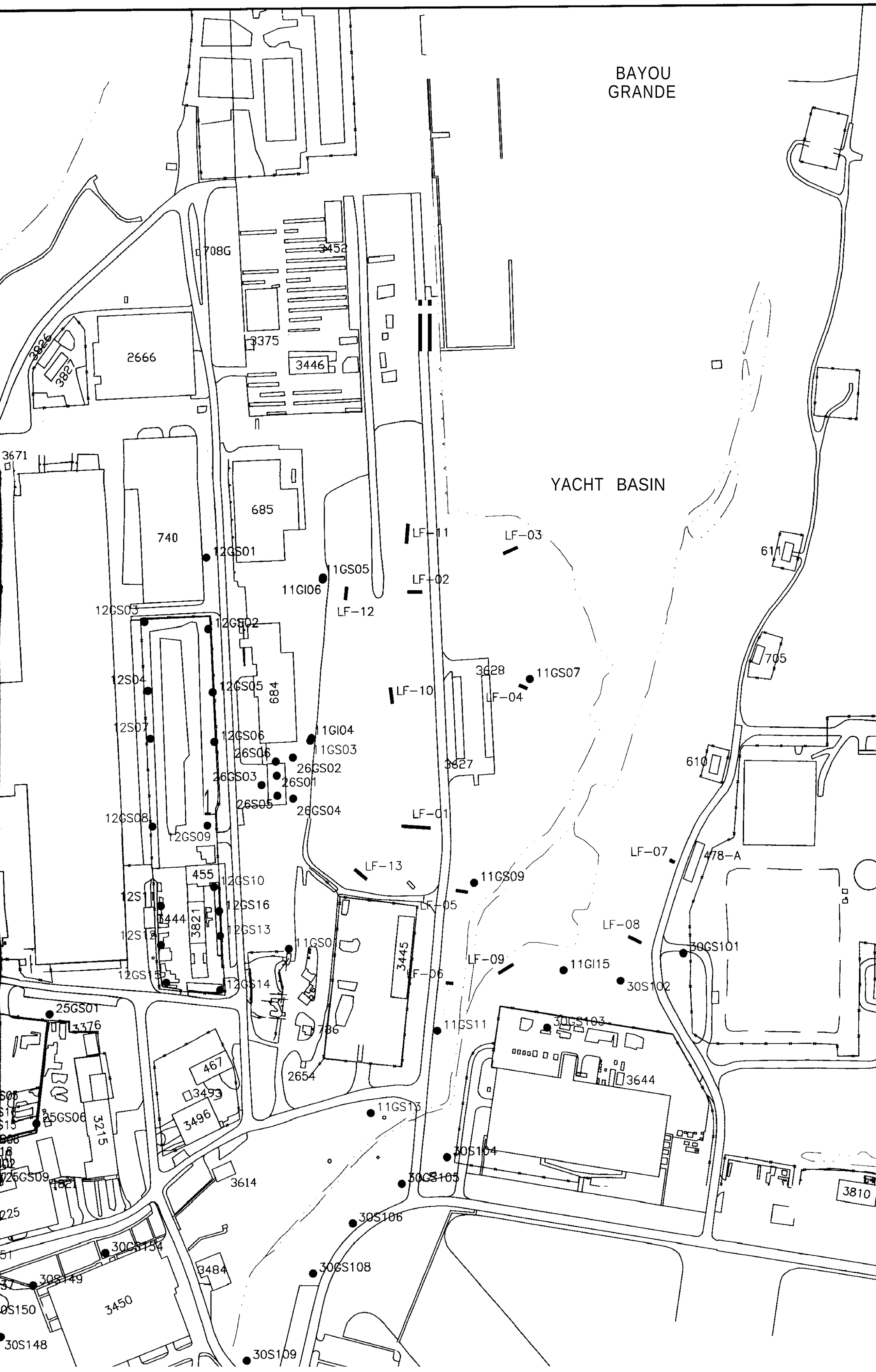
GOLF
COURSE


BAYOU
GRANDE
YACHT BASIN
708G
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3375
3446
2666
3826
3827
3671
685
740
12GS01
11GS05
11GI06
LF-12
LF-11
LF-03
LF-02
12GS03
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12S04
12GS05
684
LF-10
3628
11GS07
LF-04
12S07
12GS06
11GI04
26S06
11GS03
26GS02
26GS03
26S01
26S05
26GS04
3627
LF-01
12GS08
12GS09
611
705
610
LF-07
478-A
LF-13
11GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
LF-05
LF-08
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11GS0
3445
LF-09
11GI15
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LF-06
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25GS06
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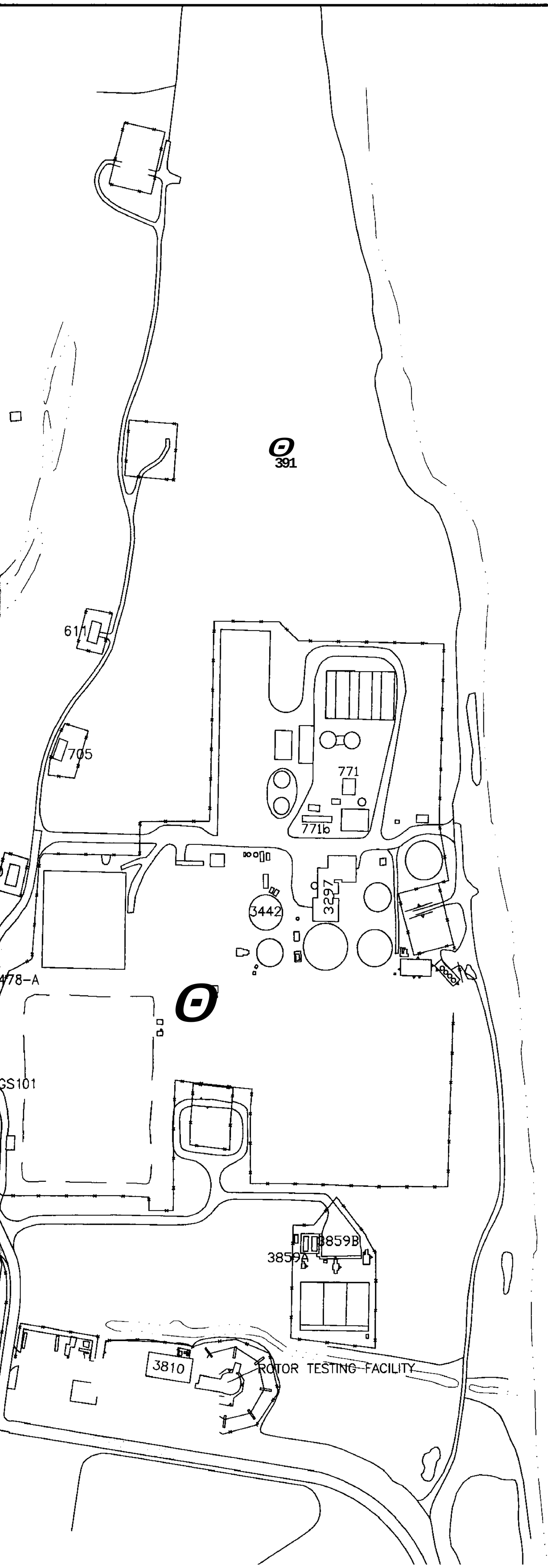
30S109



SURFACE SOIL SECONDARY

Site	Location ID	Sample ID	Depth ft-bgs	Aluminum (Al)	C
PRG (mg/kg)				**7800** (1)	31
11					
	LF-05	11-S-RA05-01	1		
	LF-06	11-S-RA06-01	1		
	LF-08	11-S-RA08-01	1		
	LF-13	11-S-RA13-01	1		
	11GS01	11-S-S001-01	1	9910	
	11GS03	11-S-S003-01	1		
	11GS11	11-S-S011-01	1	26700	
	11GS13	11-S-S013_01	1	21700	
12					
	12GS03	12-S-0003-01	1		
	12507	12-S-0007-01	1		
	12GS08	12-S-0008-01	1		
	12GS09	12-S-0009-01	1		3
	12GS10	12-S-0010-01	1	15100	5
	12GS12	12-S-0012-01	1		
	12GS13	12-S-0013-01	1		
	12GS14	12-S-0014-01	1	16100 J	
	12GS15	12-S-0015-01	1	15300 J	
25					
	25S09	25-S-S009-00	0	15300	
	25S15	25-S-S015-00	0	9270	
	25S16	25-S-S016-00	0		
	25S16	25-S-S016-01	1		
	25S17	25-S-S017-00	0		
27					
	27GS01	27-S-0001-00	0		
	27GS01	27-S-0001-01	1		
	27S07	27-S-0007-01	1	13900	
	27S08	27-S-0008-01	1	10800	
	27509	27-S-0009-01	1	17200	
	27S17	27-S-0017-01	1		
	27GS08	27-S-0020-00	0		
	27GS10	27-S-0041-00	0		
	27552	27-S-0052-01	1	9130	
	27553	27-S-0053-00	0		
	27553	27-S-0053-01	1		
30					
	305102	30-S-0102-01	1	12700	
	30GS103	30-S-0103-01	1	9380 J	
	30S137	30-S-0137-01	1	12400 J	
	305138	30-S-0138-01	1		
	30S140	30-S-0140-01	1	**9880** J	
	20S143	30-S-0143-01	1	15900 J	
	305151	30-S-0151-01	1	11500 J	

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA-RBC = USEPA RISK-BASED CONCENTR
(2) NASP REFERENCE CONCENTRATION

SURFACE SOIL SECONDARY METALS EXCEEDANCES

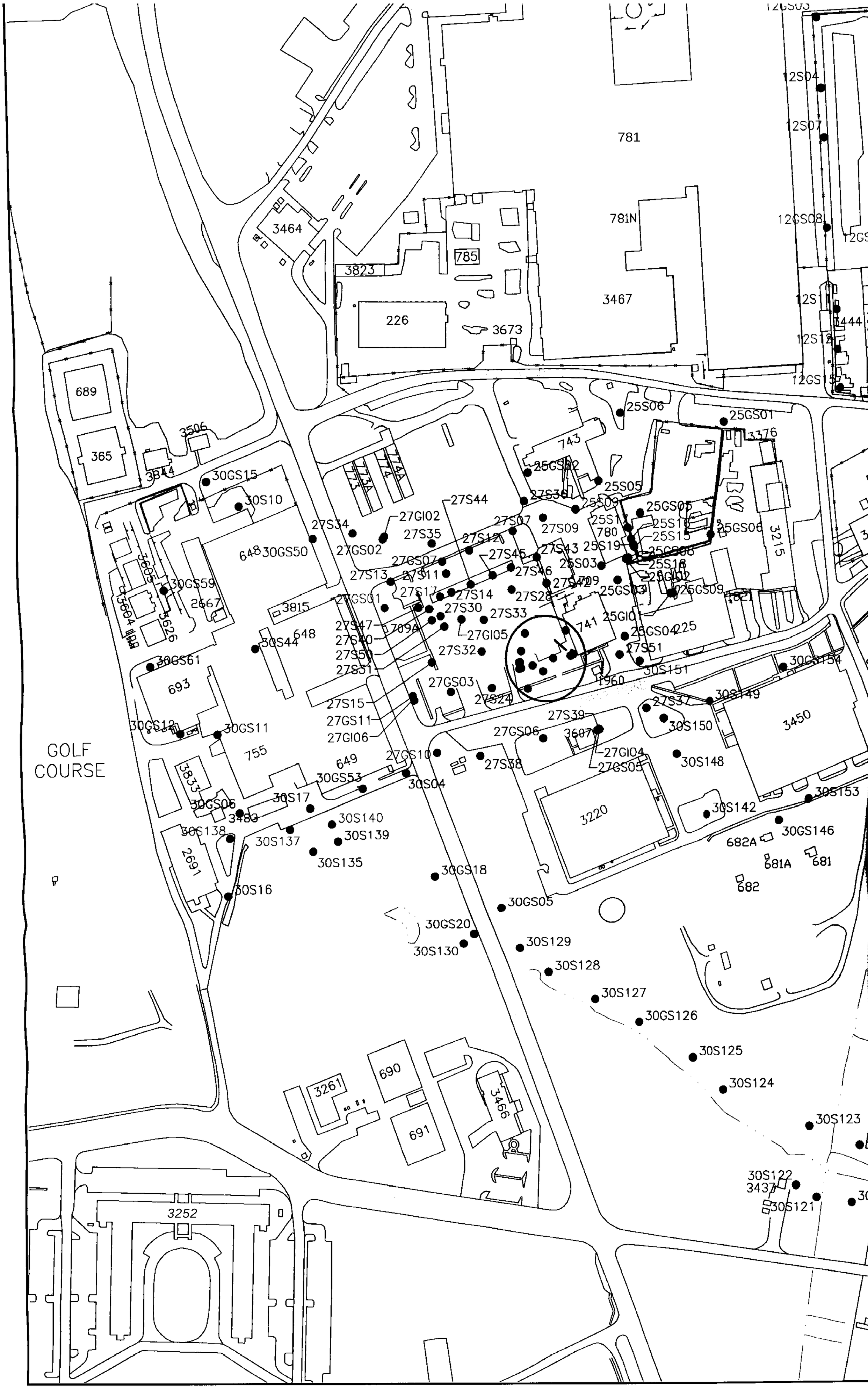
Site	Location ID	Sample ID	Depth ft-bgs	Aluminum (Al)	Copper (Cu)	Iron (Fe)	Manganese (Mn)	Silver (Ag)	Zinc (Zn)
PRG (mg/kg)				7800 (1)	310 (1)	2745 (2)	180 (1)	39 (1)	2300 (1)
11									
	LF-05	11-S-RA05-01	1			5980 J			
	LF-06	11-S-RA06-01	1			5930 J			
	LF-08	11-S-RA08-01	1			5030 J			
	LF-13	11-S-RA13-01	1			5460 J			
	11GS01	11-S-S001-01	1	9910		6600 J			
	11GS03	11-S-S003-01	1			4300 J			
	11GS11	11-S-S011-01	1	26700		21100			
	11GS13	11-S-S013-01	1	21700		12700			
12									
	12GS03	12-S-0003-01	1			6760			
	12507	12-S-0007-01	1			3560			
	12GS08	12-S-0008-01	1			5760 J			
	12GS09	12-S-0009-01	1		370 J	15700	182		
	12GS10	12-S-0010-01	1	15100	516	20800	272		
	12GS12	12-S-0012-01	1			3910			
	12GS13	12-S-0013-01	1			3540 J			
	12GS14	12-S-0014-01	1	16100 J		8030 J	390 J		
	12GS15	12-S-0015-01	1	15300 J		9220 J			
25									
	25S09	25-S-S009-00	0	15300		8280			
	25S15	25-S-S015-00	0	9270		17300	288	45.5	
	25S16	25-S-S016-00	0			5300			
	25S16	25-S-S016-01	1			3520			
	25517	25-S-S017-00	0			27400	359		4360
27									
	27GS01	27-S-0001-00	0			3170 J			
	27GS01	27-S-0001-01	1			2780 J			
	27S07	27-S-0007-01	1	13900		11800			
	27508	27-S-0008-01	4	10800		6190	636		
	27S09	27-S-0009-01	1	17200		9100			
	27517	27-S-0017-01	1			3640			
	27GS08	27-S-0020-00	0			4150			
	27GS10	27-S-0041-00	0			4480			
	27S52	27-S-0052-01	1	9130		10300			
	27S53	27-S-0053-00	0			7010	273		
	27553	27-S-0053-01	1			5970			
30									
	30S102	30-S-0102-01	1	12700		8620			
	30GS103	30-S-0103-01	1	9380 J		16100			
	30s137	30-S-0137-01	1	12400 J		7080	266 J		
	30S138	30-S-0138-01	1			2820 J			
	30S140	30-S-0140-01	1	9880 J		4760			
	20S143	30-S-0143-01	1	15900 J		7720			
	30S151	30-S-0151-01	1	11500 J		7020 J			

PRG = PRELIMINARY REMEDIATION GOAL
(1) USEPA-RBC = USEPA RISK-BASED CONCENTRATION
(2) NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743.1 BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL SECONDARY METAL EXCEEDANCES)
- FENCE LINE
- ROADS


781
781N
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785
3823
3467
226
3673
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3506
3844
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30S10
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3605
30GS59
3604
2667
3626
3815
30S44
648
30GS61
693
30GS12
30GS11
755
3833
30GS06
3483
30S138
2691
30S17
30S137
30S140
30S139
30S135
30S16
30GS53
649
30S04
27S34
27GI02
27S35
27GS02
27S44
27S07
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27S45
27S43
27S46
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27S17
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27S30
27S33
27S47
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27S51
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27S38
27GS06
27S39
3607
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27GS05
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30S151
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741
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25GS04
225
27S51
743
25GS02
25S06
25S05
25S09
25GS01
3376
25GS05
25S17
780
25S16
25S15
25GS06
25S19
25GS08
25S18
25GI02
25S03
27S42
25GS03
25GS09
1021
3215
3450
3220
30S142
30S153
30GS146
682A
681A
681
682
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30GS18
30GS20
30S130
30S129
30S128
30S127
30GS126
30S125
30S124
30S123
30S122
3437
30S121
690
691
3261
3466
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GOLF
COURSE
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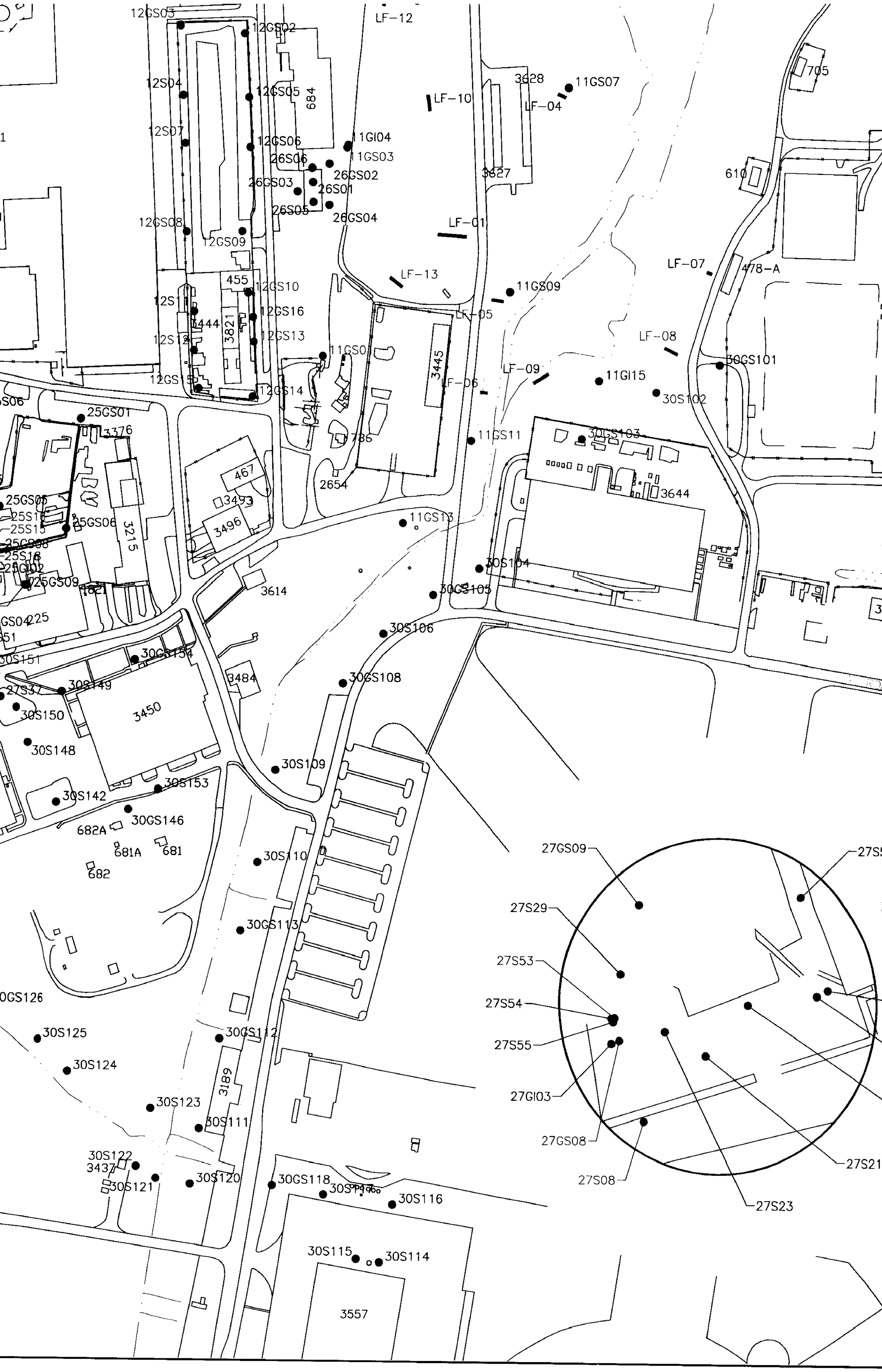
12S04
12S07
12GS08
12S
3444
12S12
12GS15

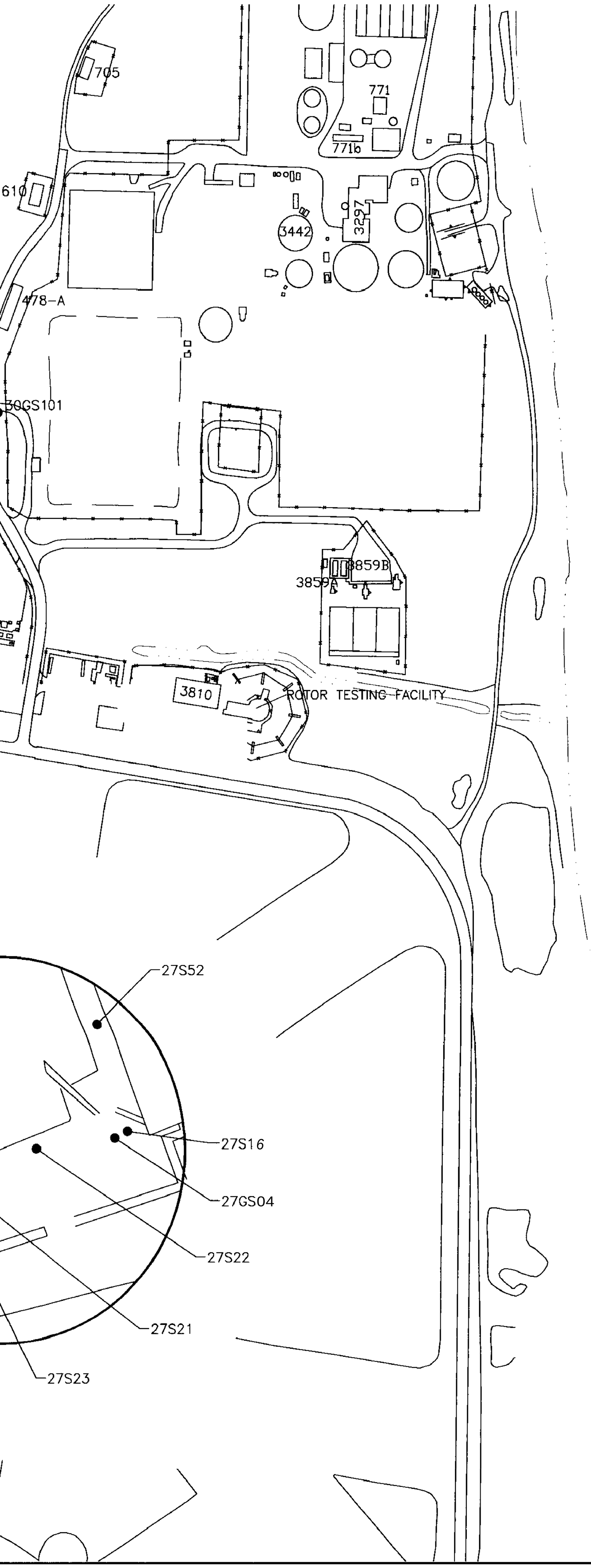

12GS03
12GS02
LF-12
12S04
12GS05
684
12S07
12GS06
11GI04
26S06
11GS03
26GS02
26GS03
26S01
26S05
26GS04
12GS08
12GS09
455
12GS10
12S11
12GS16
3444
3821
12S12
12GS13
11GS01
12GS15
12GS14
3445
LF-06
25GS01
3376
786
467
3493
2654
25GS05
25S16
25S15
25GS06
3215
3496
25GS08
25S18
25GS02
25GS09
1621
3614
3484
30GS154
30S149
3450
30S150
30S148
30S153
30S142
30GS146
682A
681A
681
682
30S151
27S37
LF-10
3628
11GS07
LF-04
3627
LF-01
LF-13
11GS09
LF-05
LF-08
LF-09
11GI15
30S102
11GS11
30GS103
3644
30S104
30GS105
30S106
30GS108
30S109
30S110
30GS113
30GS126
30S125
30GS112
30S124
3189
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S116
30S115
30S114
3557
705
610
478-A
LF-07
30GS101
27GS09
27S29
27S53
27S54
27S55
27GI03
27GS08
27S08
27S23
27S21

30				
	305102	30-S-0102-01	1	12700
	30GS103	30-S-0103-01	1	9380
	305137	30-S-0137-01	1	112400
	30S138	30-S-0138-01	1	
	30S140	30-S-0140-01	1	9880
	20S143	30-S-0143-01	1	15900
	30S151	30-S-0151-01	1	11500

PRG = PRELIMINARY REMEDIATION GOAL

(1) USEPA-RBC = USEPA RISK-BASED CONC

(2) NASP REFERENCE CONCENTRATION



	305102	30-S-0102-01	1	12700		**8620**			
	30GS103	30-S-0103-01	1	**9380** J		16100			
	30S137	30-S-0137-01	1	12400 J		7080	266 J		
	30S138	30-S-0138-01	1			2820 J			
	30S140	30-S-0140-01	1	9880 J		4760			
	20S143	30-S-0143-01	1	15900 J		7720			
	30S151	30-S-0151-01	1	11500 J		7020 J			

PRG = PRELIMINARY REMEDIATION GOAL

(1) USEPA-RBC = USEPA RISK-BASED CONCENTRATION

(2) NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SURFACE SOIL SECONDARY METAL EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- SOIL BORING
- SOIL BORING (EXHIBITING SURFACE SOIL SECONDARY METAL EXCEEDANCES)

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF ONE OR MORE SECONDARY METALS SURFACE SOIL SECONDARY METALS EXCEEDANCES.
   GRAY SOIL BORINGS INDICATE THE ABSENCE OF ANY SECONDARY METALS SURFACE SOIL SECONDARY METALS EXCEEDANCES.
2, 3 VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN mg/kg.
4. ALL DEPTHS IN ft-bgs (FEET BELOW GROUND SURFACE).

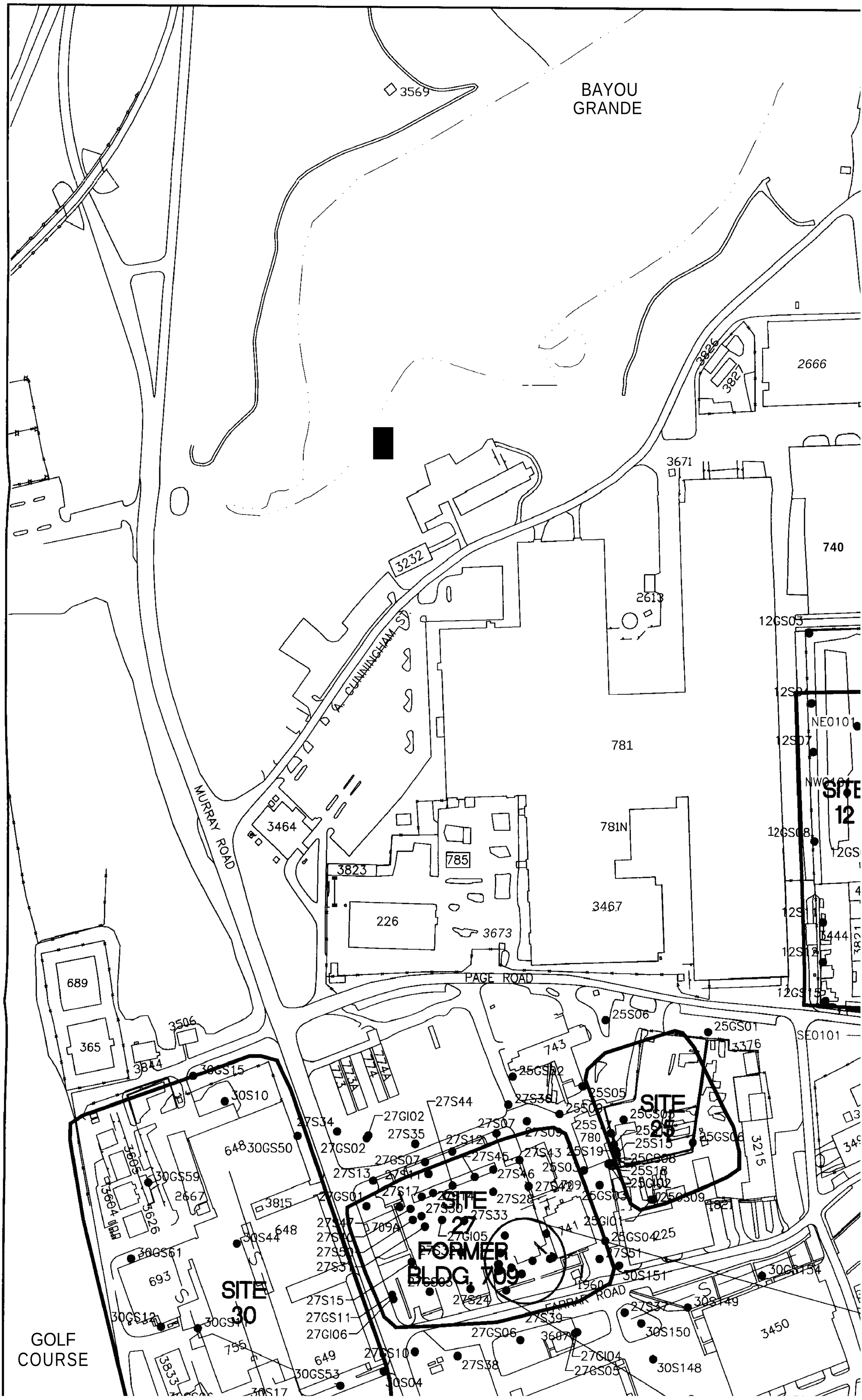
200 0 200
SCALE FEET

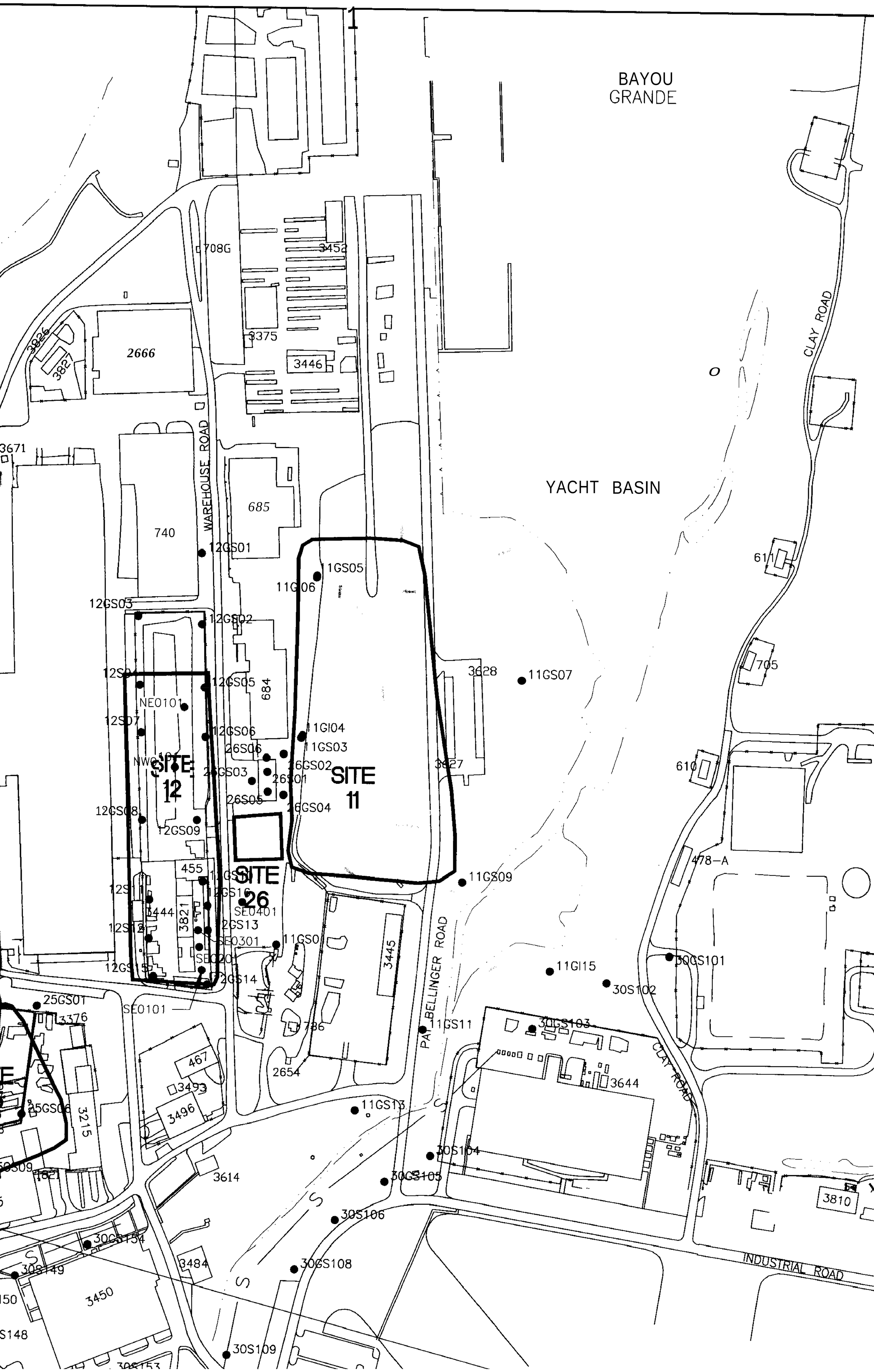
NAS PENSACOLA
OPERABLE UNIT 2

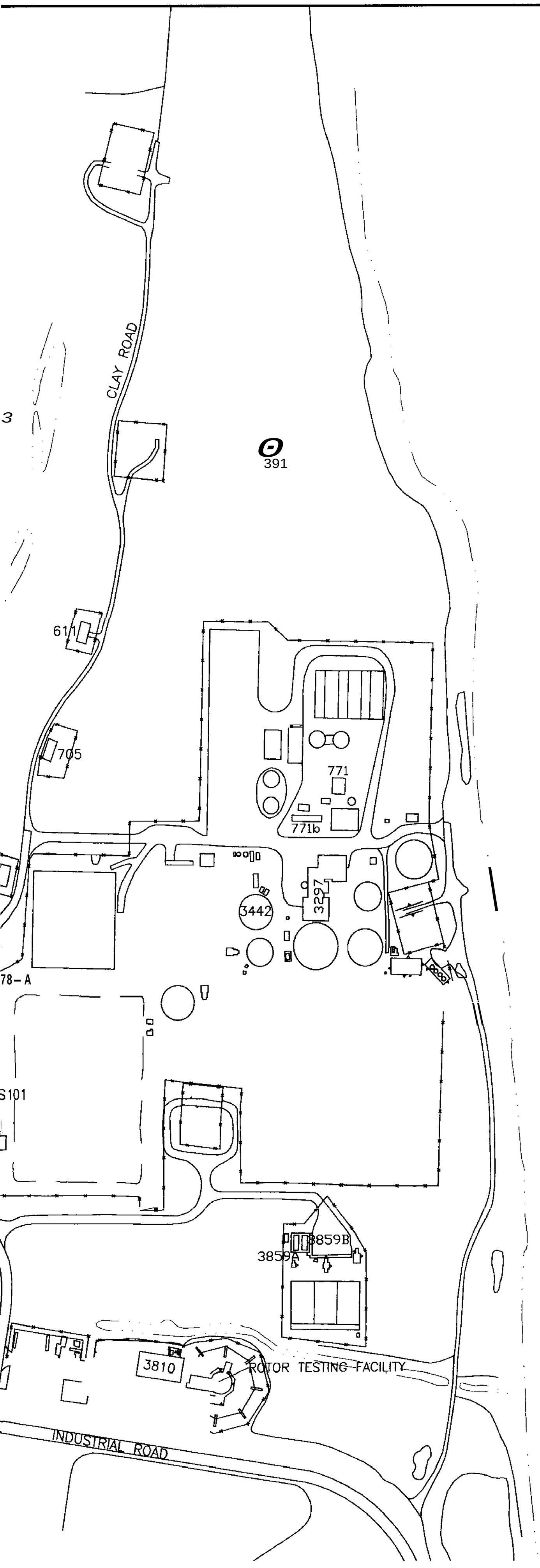
FIGURE 20
SURFACE SOIL
SECONDARY METALS EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59SMEOU2	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
2666
3826
3827
3671
740
3232
2613
12GS03
A. CUNNINGHAM ST.
781
NE0101
12S07
MURRAY ROAD
3464
781N
12GS08
SITE 12
785
3823
226
3467
3673
PAGE ROAD
689
365
3506
3844
25S06
25GS01
3376
743
SE0101
30GS15
30S10
27S44
27GI02
27S34
27S35
27S07
27S09
25S05
SITE 25
648
30GS50
27GS02
27S12
27S45
27S43
25S19
25S15
25GS06
3215
30GS59
27S13
27S46
27S42
2667
3815
27GS01
27S17
27S28
25GS03
25GS09
3626
SITE 27
27S33
30S44
27S47
709A
27GI05
25GS04
225
30GS61
27S51
FORMER BLDG. 709
30S151
693
SITE 30
27S15
27GS11
27GI06
27S24
FARRAR ROAD
27S32
30S149
30GS12
27S39
27GS06
30S150
3450
755
649
27GS10
27S38
27GI04
30S148
30GS53
30S04
GOLF COURSE


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
SITE 12
SITE 11
SITE 26
2666
708G
3452
3375
3446
3826
3827
3671
740
685
684
12GS01
11GS05
11GS06
12GS03
12GS02
12GS05
NE0101
12GS06
11GI04
11GS03
26GS06
26GS02
26GS03
26GS01
26GS05
26GS04
12GS08
12GS09
455
3444
3821
SE0401
2GS13
SE0301
11GS0
2GS14
SE0101
25GS01
3376
3628
11GS07
3627
611
705
610
478-A
11GS09
11GI15
30GS101
30S102
11GS11
30GS103
3644
467
3493
3496
2654
736
3445
11GS13
3215
30S104
30GS105
3614
30S106
3810
30GS154
30S149
3484
30GS108
3450
30S109



SURFACE SOIL		
SITE	Location ID	
PRG (pCi/g)		
12		
	12-NE01	12
	12-NW01	12
	12-SE01	12
	12-SE02	12
	12-SE03	12
	12-SE04	12

* NO USEPA RBC FOR RADIUM 2

N

SURFACE SOIL RADIUM 226 CONCENTRATIONS				
SITE	Location ID	Boring ID	DEPTH FT-BLS	RADIUM 226
PRG (pCi/g)				*
12				
	12-NE01	12-S-NE01-01	1	538900
	12-NW01	12-S-NW01-01	1	26340
	12-SE01	12-S-SE01-01	1	1211000
	12-SE02	12-S-SE02-01	1	18780
	12-SE03	12-S-SE03-01	1	174,200
	12-SE04	12-S-SE04-01	1	0.54

* NO USEPA RBC FOR RADIUM 226

PENSACOLA BAY

LEGEND

SITE 26 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

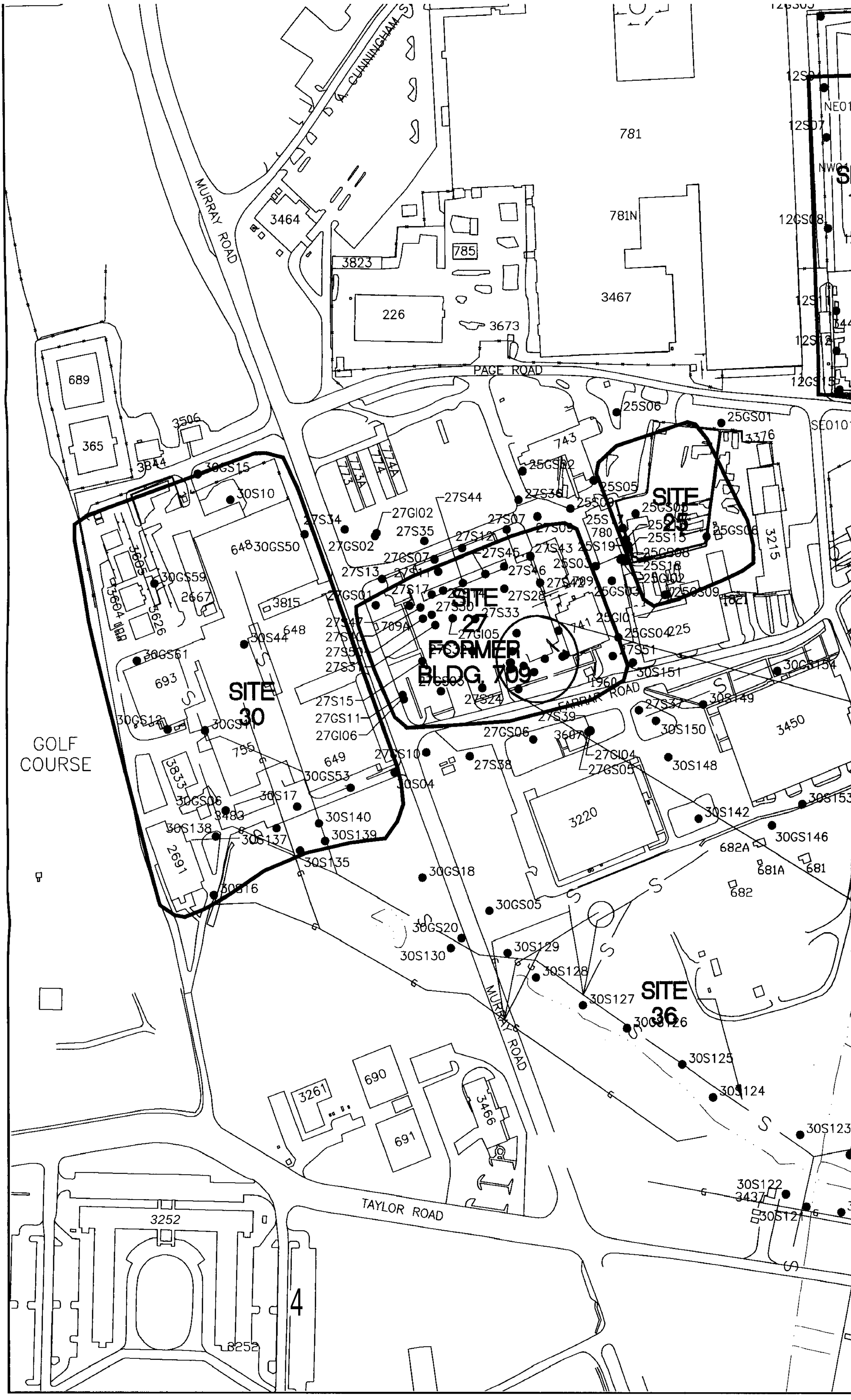
CLOSED LAGOON

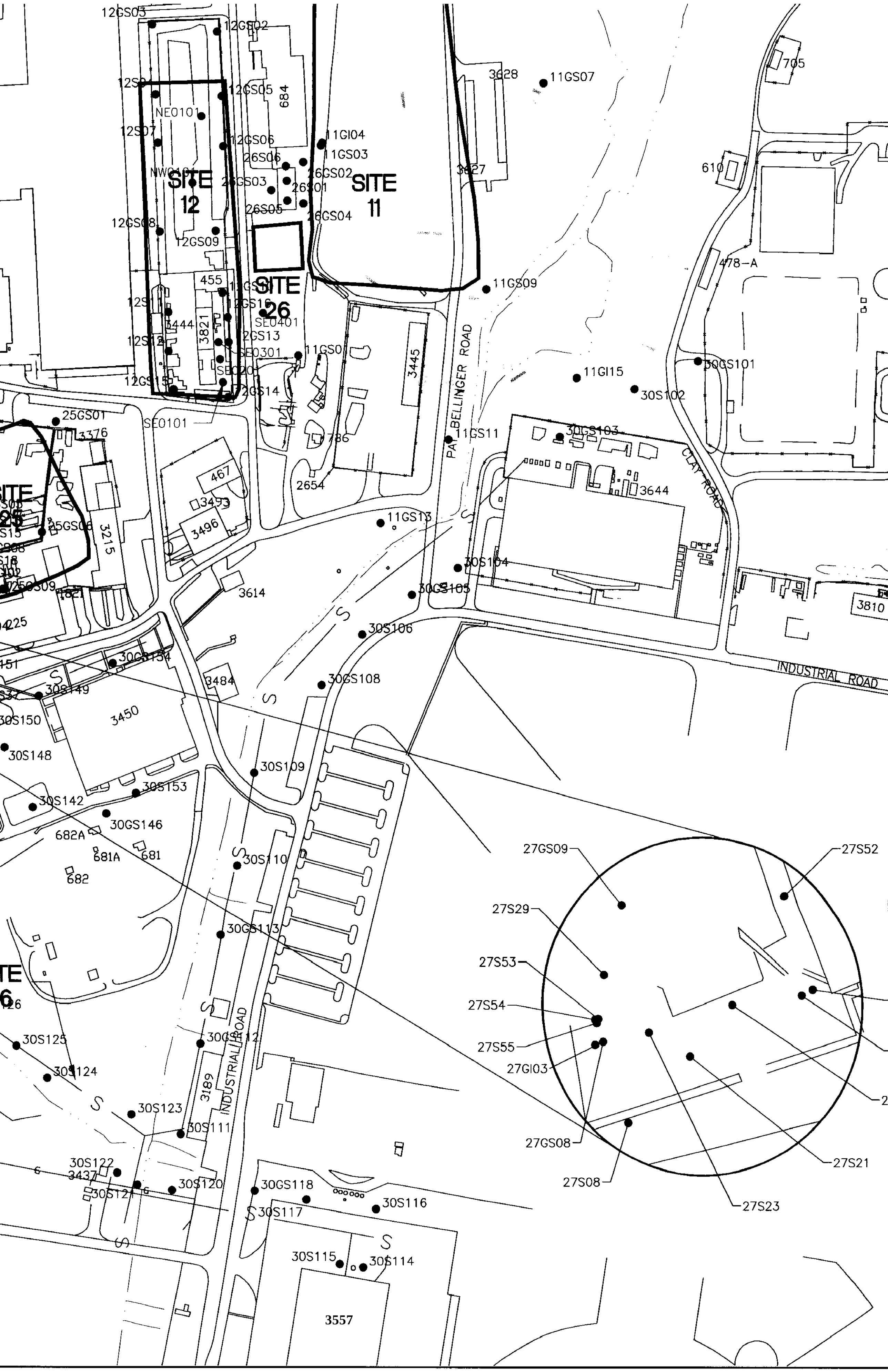
743 — BUILDING

TRENCH LOCATIONS

FENCE LINE

ROADS


MURRAY ROAD
A. CUNNINGHAM
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
SITE 30
SITE 27
FORMER BLDG. 709
SITE 25
SITE 36
781
781N
785
3464
3823
3467
226
3673
689
365
3506
3844
30GS15
30S10
648
30GS50
30GS59
2667
3815
30S44
30GS61
693
30GS12
30GS11
755
3833
30GS06
3483
30S138
30S137
2691
30S17
30S140
30S139
30S135
30S16
649
30GS53
30S04
27S34
27GI02
27S35
27GS02
27S44
27S07
27S12
27S45
27S43
27S46
27S13
27S17
27GS01
27S28
27S30
27S33
27GI05
709A
27S47
27S40
27S52
27S31
27S15
27GS11
27GI06
27S10
27S38
27GS06
27S39
27GI04
27GS05
30S150
30S148
30S149
30S151
30GS154
3450
3220
30S142
30S153
30GS146
682A
681A
681
682
30GS18
30GS05
30GS20
30S130
30S129
30S128
30S127
30S126
30S125
30S124
30S123
30S122
3437
30S121
3261
690
691
3466
3252
4
743
774
774A
773
773A
25S06
25GS01
3376
25GS02
25S05
25S09
25GS03
25GS06
3215
780
25S13
25S19
25S03
25S18
25GI02
25S09
1821
25GI01
25GS04
225
27S51
1960
741
27S36
27S32
27S37
27S24
27GS03
27GS09
12S09
NE01
12S07
NW01
12GS08
12S11
12S12
12GS15
SE010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12S01
12GS05
684
NE0101
12S07
12GS06
11GI04
11GS03
26S06
NW0101
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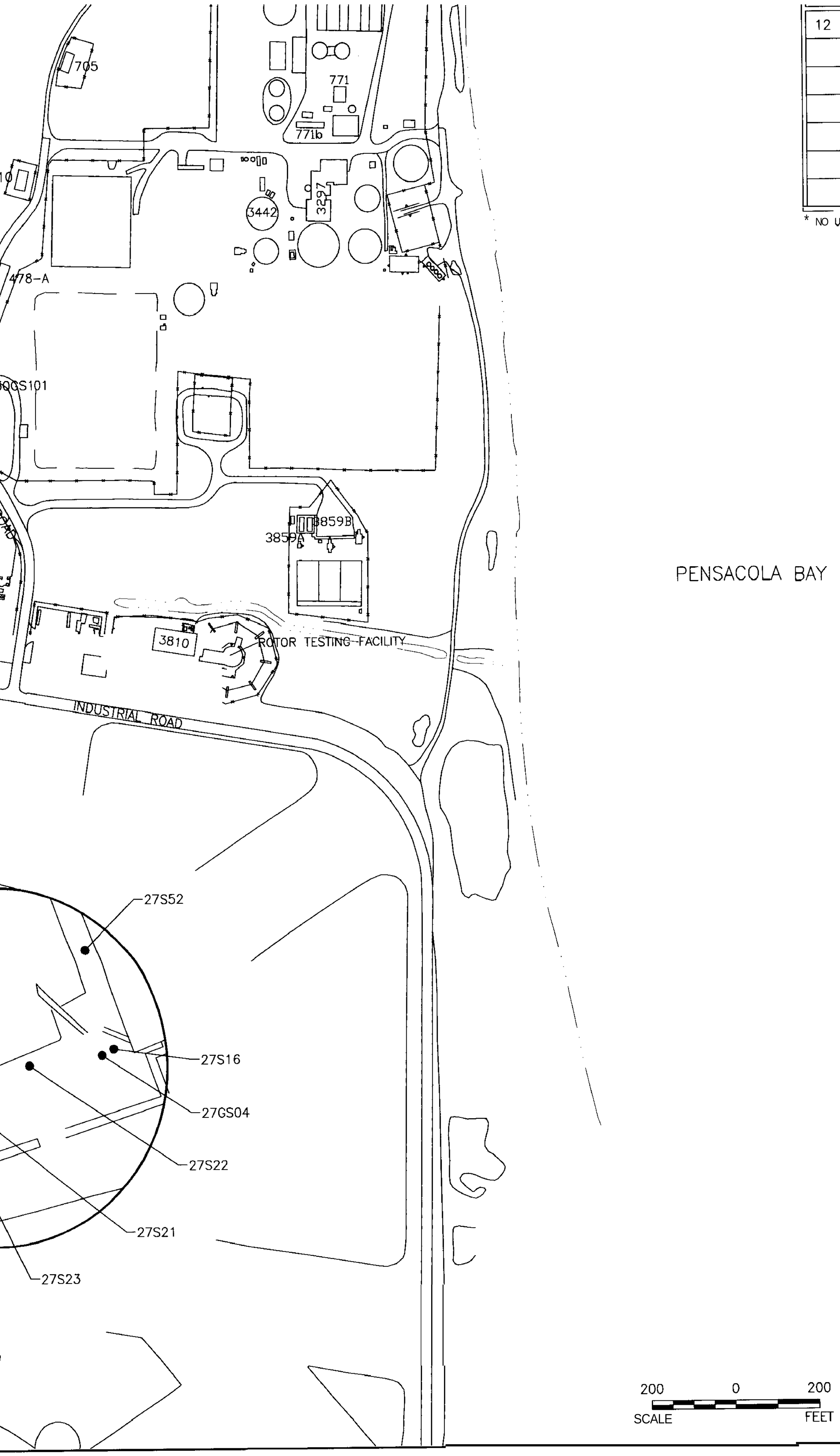
26GS02
26S01
SITE 11
26S05
26GS04
12GS08
12GS09
455
SITE 26
12S11
12GS16
3444
3821
SE0401
12S12
12GS13
SE0301
11GS0
SE0201
12GS15
12GS14
3445
SE0101
25GS01
3376
786
2654
467
3493
3496
SITE 25
25GS06
3215
25GS09
4621
4225
3614
3484
30GS154
30S149
30S150
3450
30S148
30S142
30S153
30GS146
682A
681A
681
682
SITE 26
30S125
30S124
3189
30S123
30S111
30S122
3437
30S121
30S120
30GS118
30S117
30S116
30S115
30S114
3557
INDUSTRIAL ROAD
PAT BELLINGER ROAD
CLAY ROAD
3628
11GS07
3627
705
610
478-A
11GS09
11GI15
30GS101
30S102
30GS103
11GS11
3644
11GS13
30S104
30GS105
30S106
30GS108
30S109
30GS110
30GS113
30GS112
3810
27GS09
27S52
27S29
27S53
27S54
27S55
27GI03
27GS08
27S21
27S23

12	
	12-NE01
	12-NW01
	12-SE01
	12-SE02
	12-SE03
	12-SE04

* NO USEPA RBC FOR RADI



1. HI
CC
NO
2. AL
3. At

12				
	12-NE01	12-S-NE01-01	1	538900
	12-NW01	12-S-NW01-01	1	26340
	12-SE01	12-S-SE01-01	1	1211000
	12-SE02	12-S-SE02-01	1	18780
	12-SE03	12-S-SE03-01	1	174,200
	12-SE04	12-S-SE04-01	1	0.54

* NO USEPA RBC FOR RADIUM 226

PENSACOLA BAY

LEGEND

SITE 26 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

CLOSED LAGOON

743 — BUILDING

TRENCH LOCATIONS

FENCE LINE

ROADS

SIDEWALKS

● SOIL BORING LOCATIONS EXHIBITING SURFACE SOIL RADIUM 226 CONCENTRATIONS.

NOTE

1. HIGHLIGHTED SOIL BORINGS INDICATE THE PRESENCE OF RADIUM 226 CONCENTRATIONS. GRAY SOIL BORING LOCATIONS INDICATE RADIUM 226 NOT SAMPLED AT THAT LOCATION.
2. ALL CONCENTRATIONS ARE IN pCi/g.
3. ALL DEPTHS IN FT-BLS (FEET BELOW LAND SURFACE)

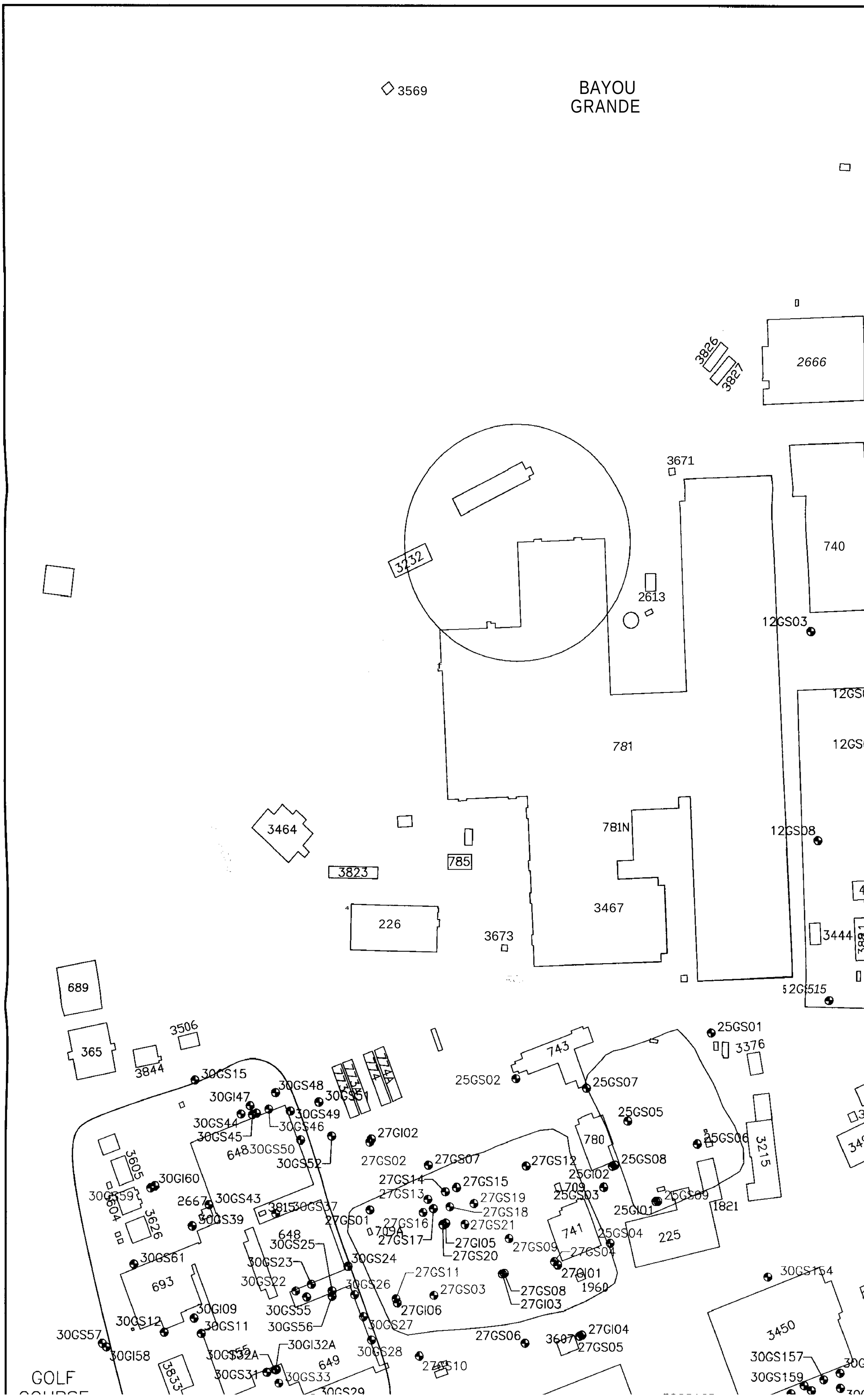
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 21
SURFACE SOIL RADIUM 226 CONCENTRATIONS

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 10/09/97	DWG Name: 590U2SSR	Of 1

SECTIONS TO FOLLOW ON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BAYOU
GRANDE
3826
3827
2666
3671
740
3232
2613
12GS03
781
781N
12GS08
3464
785
3823
3467
226
3673
3444
689
365
3506
3844
743
25GS01
3376
25GS02
25GS07
30GS15
30GS48
30GI47
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30GS49
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30GS45
27GI02
25GS05
780
25GS06
3215
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30GS52
27GS02
27GS07
27GS12
25GS08
25GI02
3605
30GI60
27GS14
27GS15
709
30GS59
27GS13
27GS19
25GS03
25GS09
2667
30GS43
3815
30GS37
27GS18
25GI01
1821
604
3626
30GS39
27GS01
27GS16
27GS21
709A
27GS17
27GI05
741
25GS04
225
648
30GS25
27GS20
27GS09
27GS04
30GS61
30GS23
30GS24
27GS11
27GI01
30GS154
693
30GS22
30GS26
27GS03
27GS08
1960
30GI09
30GS55
27GI06
27GI03
30GS12
30GS11
30GS56
30GS27
27GI04
3450
30GS57
27GS06
3607
27GS05
30GS28
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30GI58
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27GS10
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GOLF
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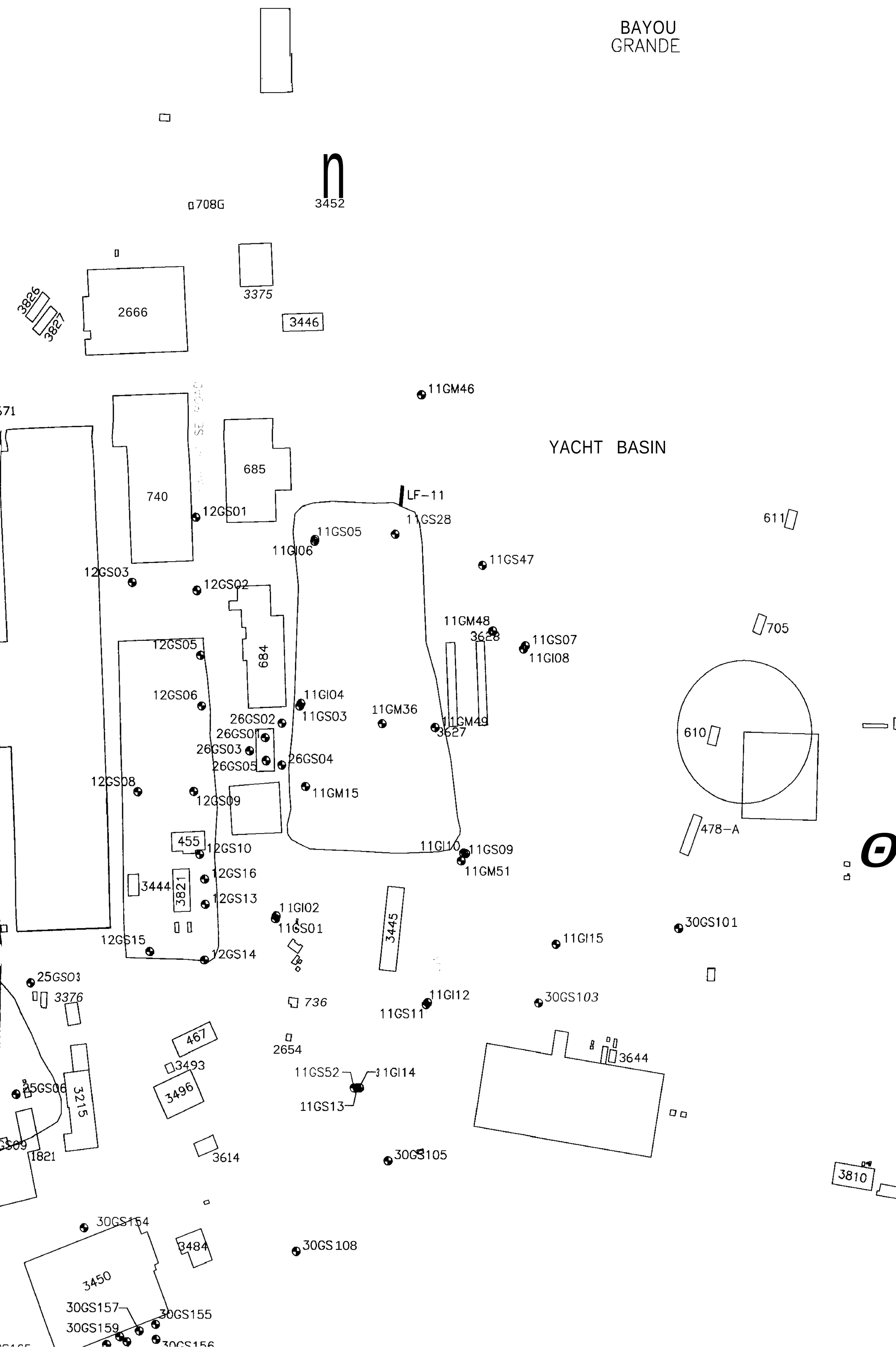
30GS29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GRANDE
708G
3452
3826
3827
2666
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3446
11GM46
YACHT BASIN
685
740
12GS01
LF-11
11GS28
11GS05
11GI06
611
11GS47
12GS03
12GS02
11GM48
3628
11GS07
11GI08
705
12GS05
684
12GS06
11GI04
11GS03
11GM36
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26GS01
26GS03
26GS05
26GS04
11GM49
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30GS159
30GS156

391

611

705

771

771b

3442

3297

178-A

GS101

LEGE

743

BU

3859B

3859A

PENSACOLA BAY

GI

GI

CI

3810

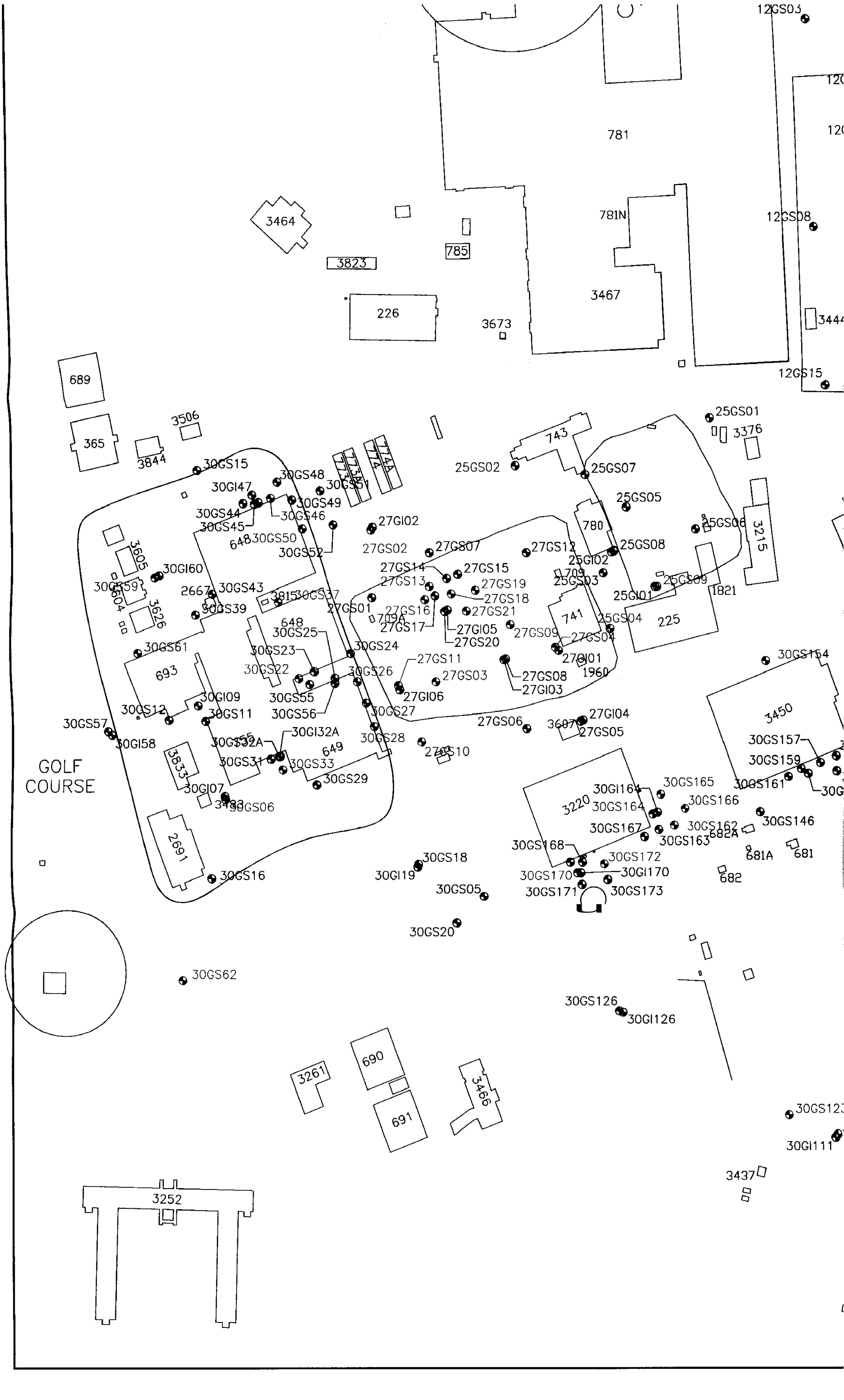
LEGEND

743 BUILDING

COLA BAY

e GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER CHLORINATED **AND** ASSOCIATED VOLATILE ORGANIC COMPOUND EXCEEDANCES)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3376
743
25GS02
25GS07
30GS15
30GS48
30GI47
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
25GS05
780
25GS06
3215
648
30GS50
30GS52
27GS02
27GS07
27GS12
25GS08
25GI02
3605
30GI60
27GS14
27GS15
709
25GS03
25GS09
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27GS13
27GS19
1821
2667
30GS43
3815
30GS37
27GS18
25GI01
3626
30GS39
27GS01
27GS16
27GS21
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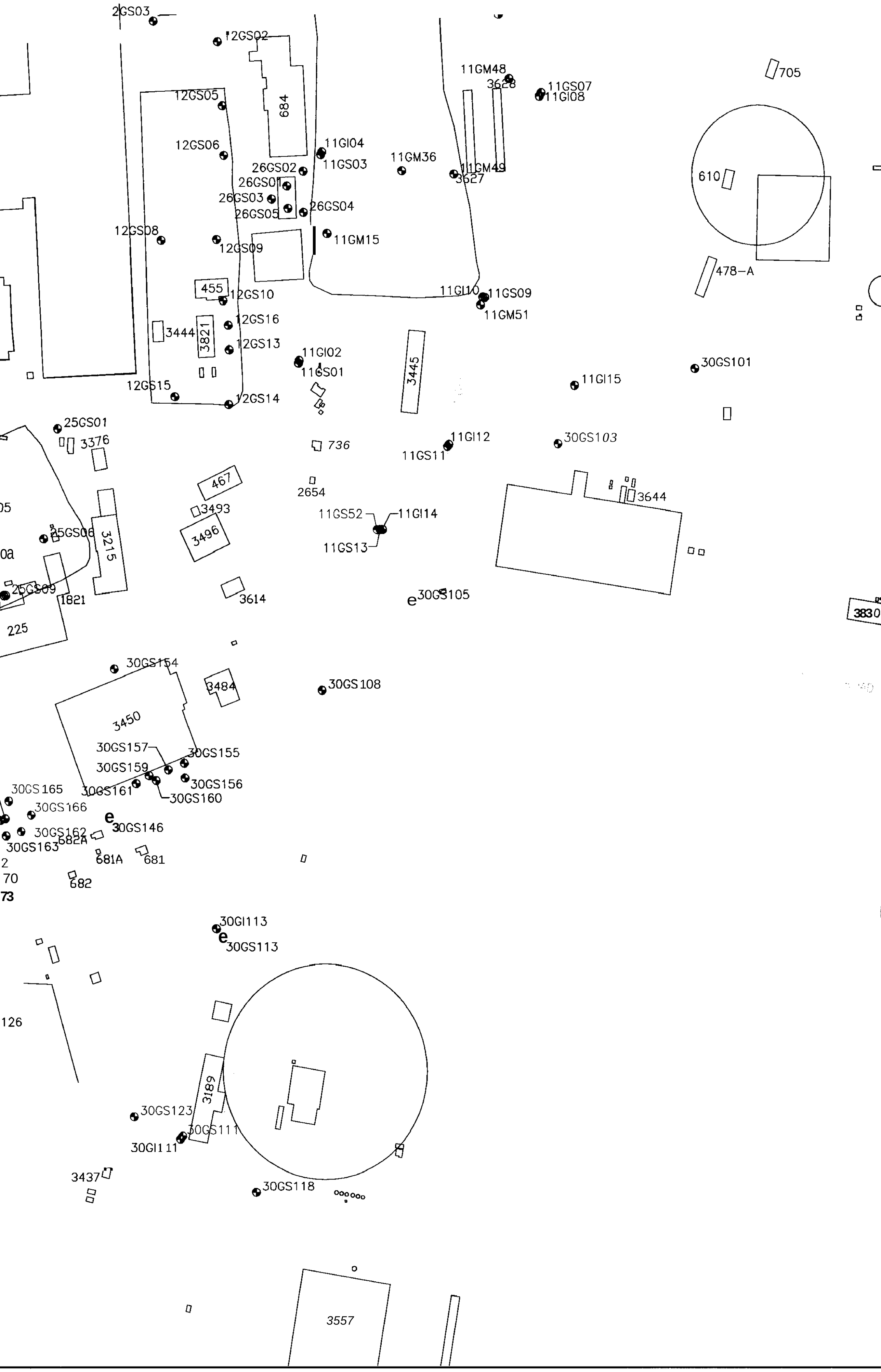
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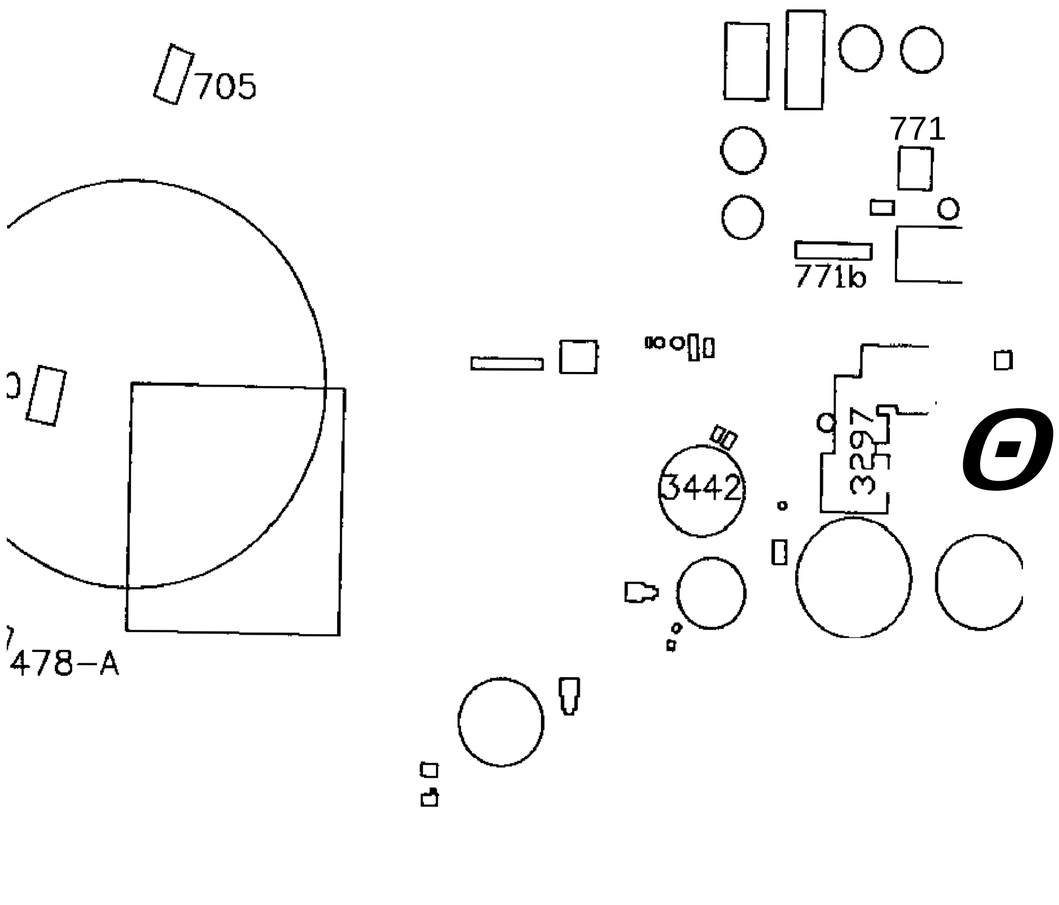

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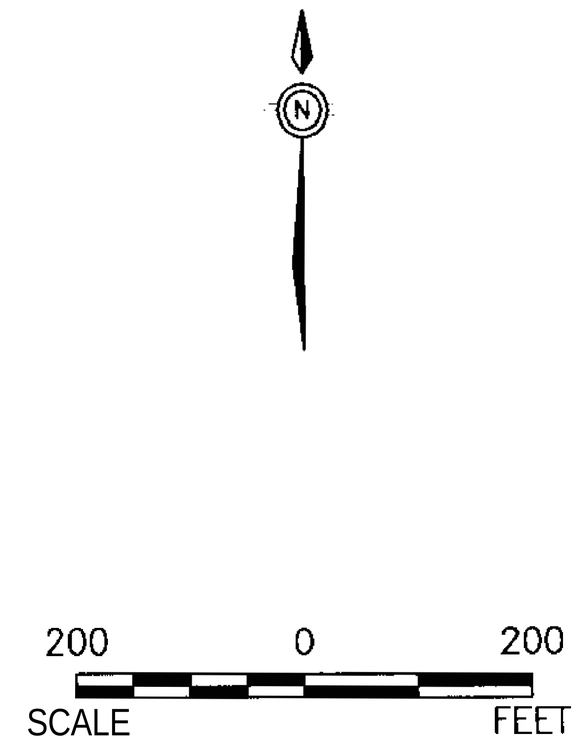

LEGEND

743 BUILDING

SACOLA BAY

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER CHLORINATED **AND** ASSOCIATED VOLATILE ORGANIC COMPOUND EXCEEDANCES)

FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUND EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUND EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES ANALYTICAL VALUE IS DERIVED FROM A DILUTED SAMPLE.
4. ALL CONCENTRATIONS **ARE** IN $\mu g/L$.
5. ANALYTICAL RESULTS FROM **GRAB** GROUNDWATER TRENCH SAMPLES **MAY** BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL **AND** GROUNDWATER, SEE DISCUSSION IN SECTION 7.

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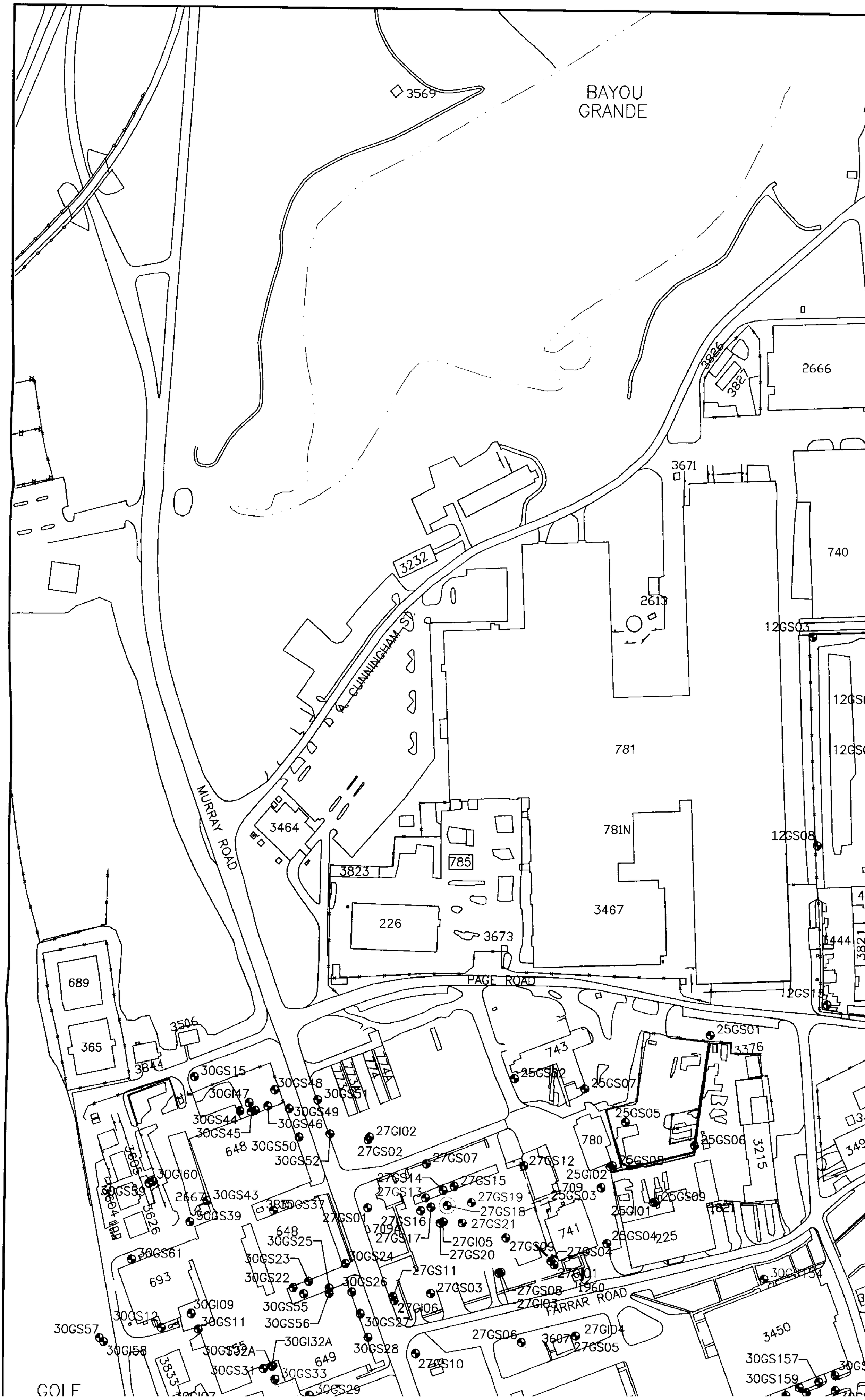
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 22
PHASE I SHALLOW GROUNDWATER
VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES –
CHLORINATED **AND** ASSOCIATED COMPOUNDS

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/08/97	DWG Name: 590U2SVS	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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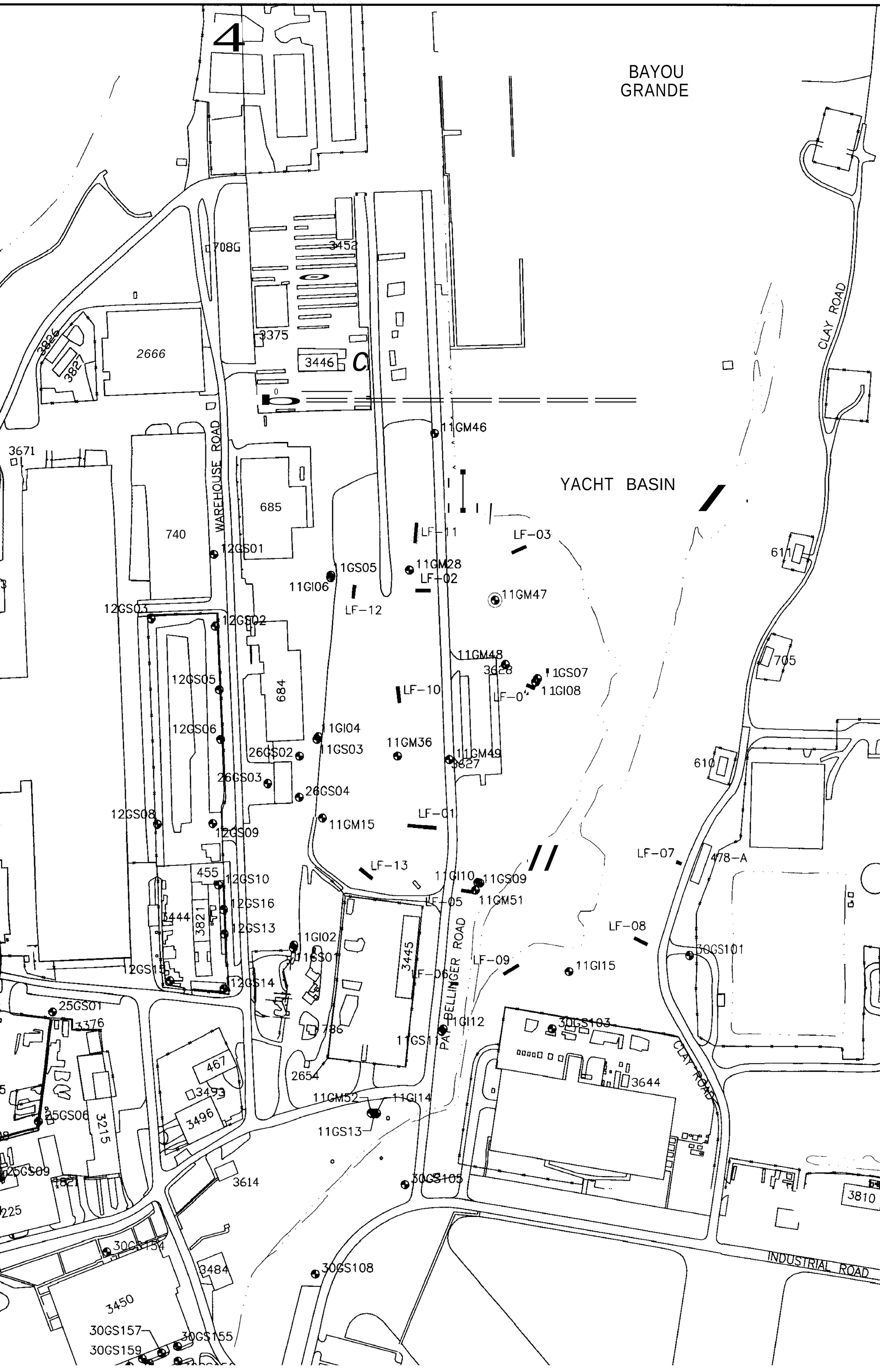
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YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
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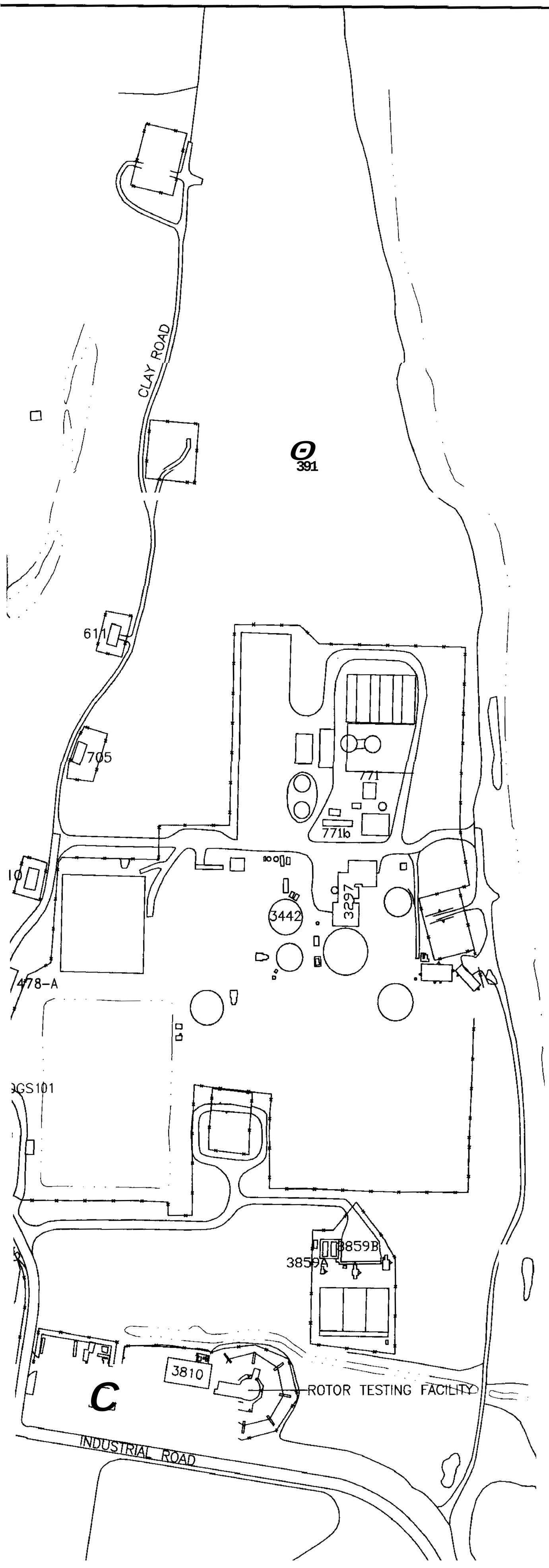


PHASE I SELECTED ORGANIC COMPOU		
SITE	MONITORING WELL ID	Ben
UNITS (µg/L)		1
11		
	11-G-GS47	
	11-G-LF11	2
	11-G-LF12	
27		
	27-G-SO13	
	27-G-SO18	
	27-G-SO19	
	27-G-SO21	
30		
	30-G-SO06	25
	30-G-SO12	
	30-G-SO29	3
	30-G-SO33	1
	30-G-SO37	
	30-G-S101	1
	30-G-S154	
	30-G-S170	2
	30-G-S171	2

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE C
2 = FSDWS-FLORIDA SECONDARY DRINKING WAT

PENSACOLA BAY

743

APPROXIMATE AREA
CONCENTRATIONS E

APPROXIMATE AREA
XYLENE (total) CO
DRINKING WATER S

APPROXIMATE ARE3
TOLUENE, ETHYLBE
THE FLORIDA GROU
FLORIDA SECONDAF

APPROXIMATE AREA
CONCENTRATIONS E

PHASE I SELECTED SHALLOW GROUNDWATER-VOLITILE ORGANIC COMPOUND (VOC)-BETX EXCEEDANCES

SITE	MONITORING WELL ID	Benzene	Ethylbenzene	Toluene	Xylene (total)
UNITS (µg/L)		1 (1)	30 (2)	40 (2)	20 (2)
11					
	1I-G-GS47		58		200
	11-G-LF11	2 J			
	11-G-LF12				200
27					
	27-G-S013				60
	27-G-S018		42 J		480
	27-G-S019		63 J	53 J	640
	27-G-S021				50
30					
	30-G-S006	250	380	140	1200
	30-G-S012				29000
	30-G-S029	3 J			
	30-G-S033	1 J			
	30-G-S037				76
	30-G-S101	1 J			21
	30-G-SI 54				24
	30-G-S170	2 J			
	30-G-Sl71	2 J			

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

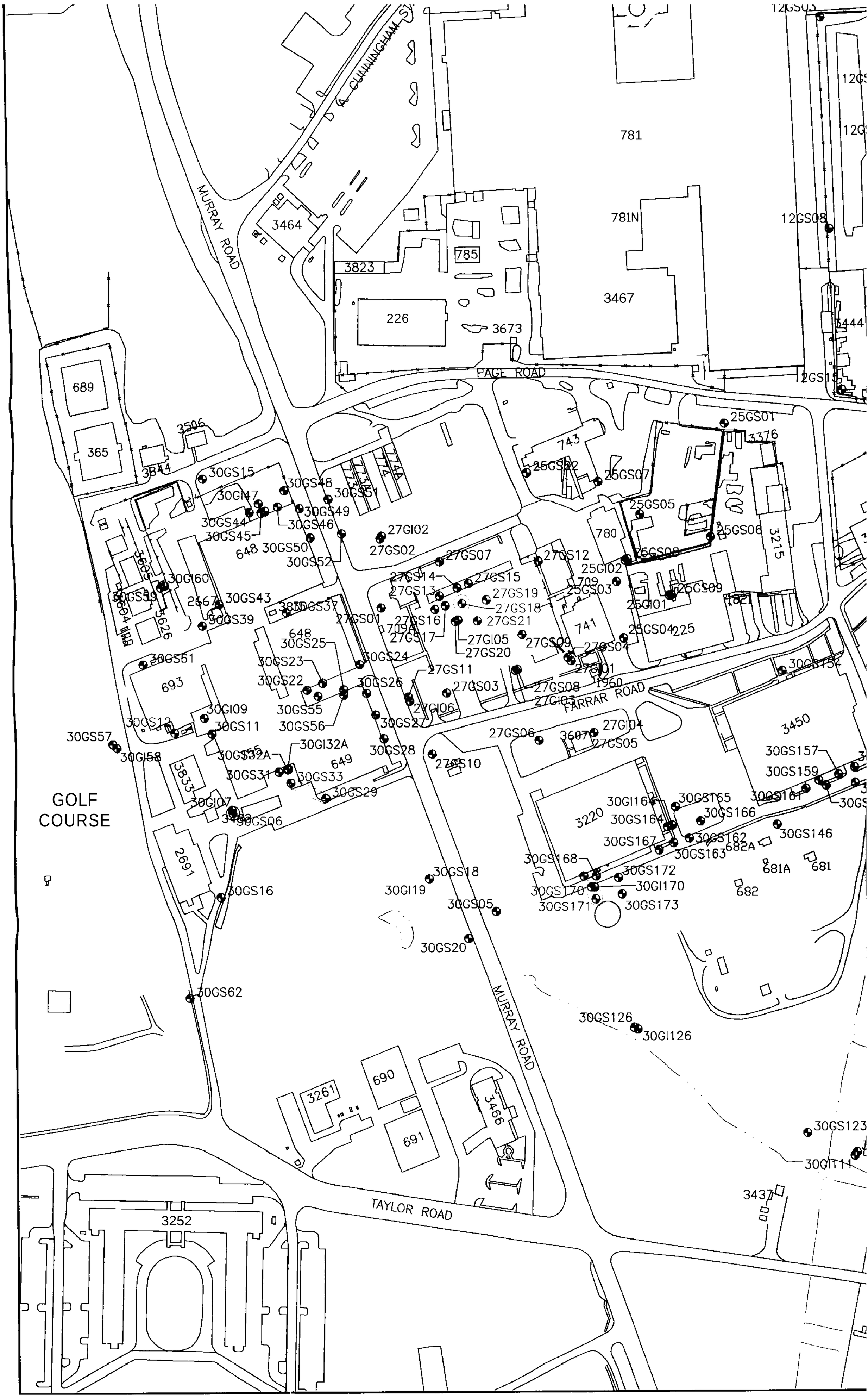
GROUNDWATER MONITORING WELL (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BENZENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER ETHYLBENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND THE FLORIDA SECONDARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER XYLENE CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARD.


CUNNINGHAM ST
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PAGE ROAD
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TAYLOR ROAD
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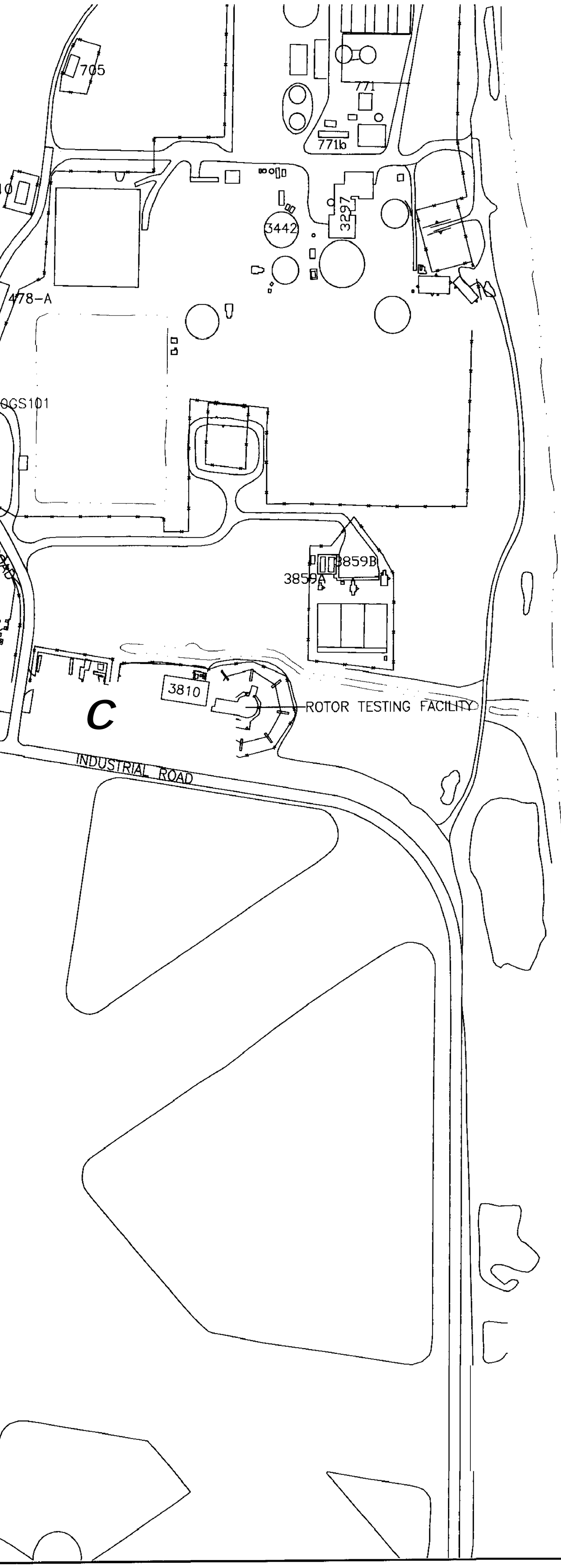
	30-G-S101	1
	30-G-S154	
	30-G-S170	2
	30-G-S171	2

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE C
2 = FSDWS-FLORIDA SECONDARY DRINKING WA



PENSACOLA BAY

743

APPROXIMATE AREA
CONCENTRATIONS

APPROXIMATE AR
XYLENE (total) C
DRINKING WATER

APPROXIMATE ARE
TOLUENE, ETHYLB
THE FLORIDA GRO
FLORIDA SECOND

APPROXIMATE ARE
CONCENTRATIONS

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SECONDARY DRIN

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XYLENE (total) C
GUIDANCE CONCE
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METALS EXCEEDANC
2. J VALUE INDICATES
3. ALL CONCENTRATION
4. ANALYTICAL RESULT
REFLECTIVE OF CO
SEE DISCUSSION IN

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	30-G-S101	1 J			21
	30-G-S154				24
	30-G-S170	2 J			
	30-G-S171	2 J			

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BENZENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION,

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER ETHYLBENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BENZENE, TOLUENE, ETHYLBENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND THE FLORIDA SECONDARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER XYLENE CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER ETHYLBENZENE, TOLUENE, AND XYLENE (total) CONCENTRATIONS EXCEEDING FLORIDA SECONDARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND THE FLORIDA SECONDARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SELECTED PHASE I PRIMARY DRINKING WATER METALS EXCEEDANCES, GRAY WELLS INDICATE THE ABSENCE OF SELECTED PHASE I PRIMARY DRINKING WATER METALS EXCEEOANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER, SEE DISCUSSION IN SECTION 7.

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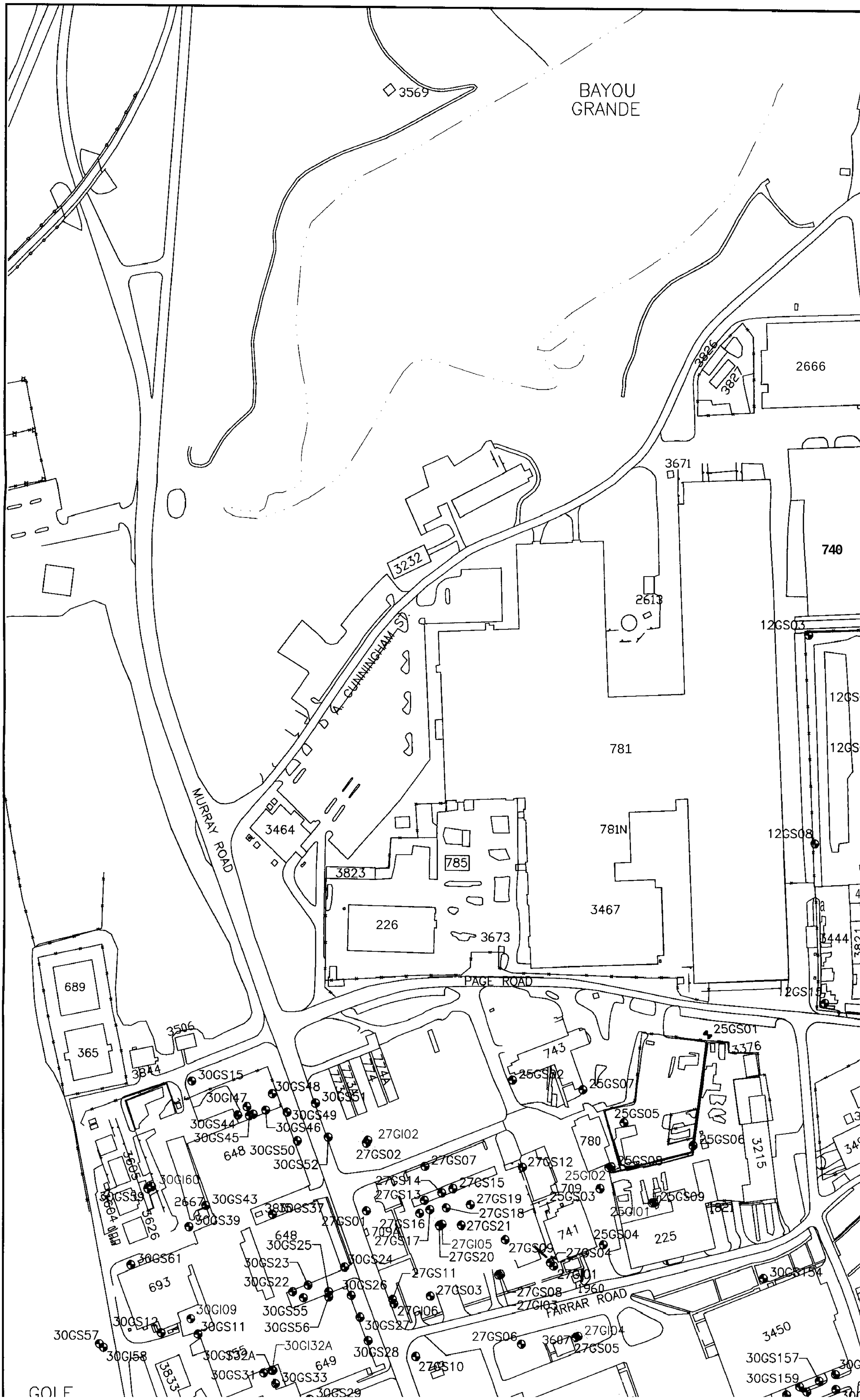
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 23
PHASE I SHALLOW GROUNDWATER
VOLATILE ORGANIC COMPOUNDS (VOCs) –
BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total)

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/08/97	DWG Name: 590U2SCP	Of 1

SECTIONS TO FOLLOW ON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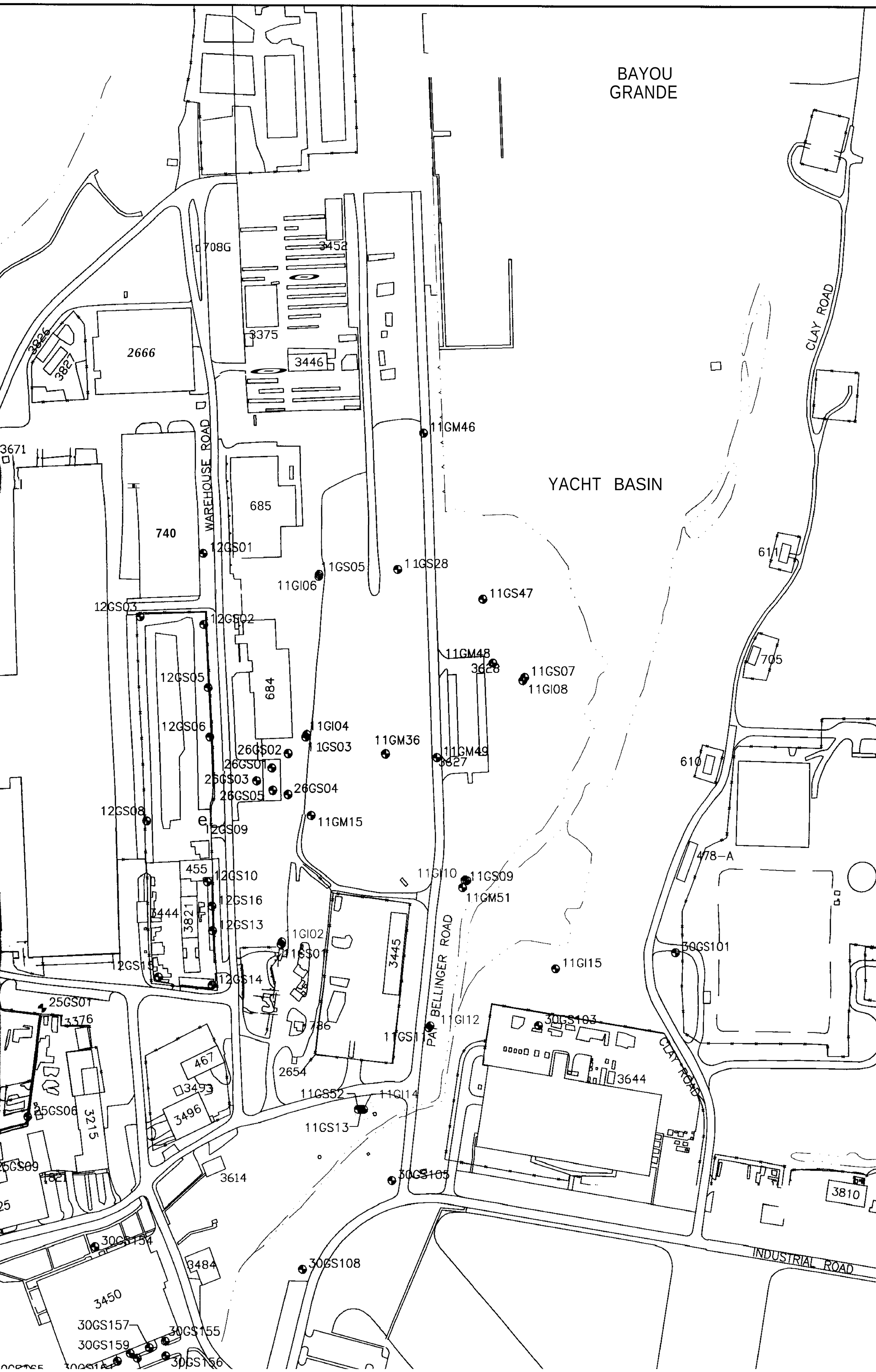
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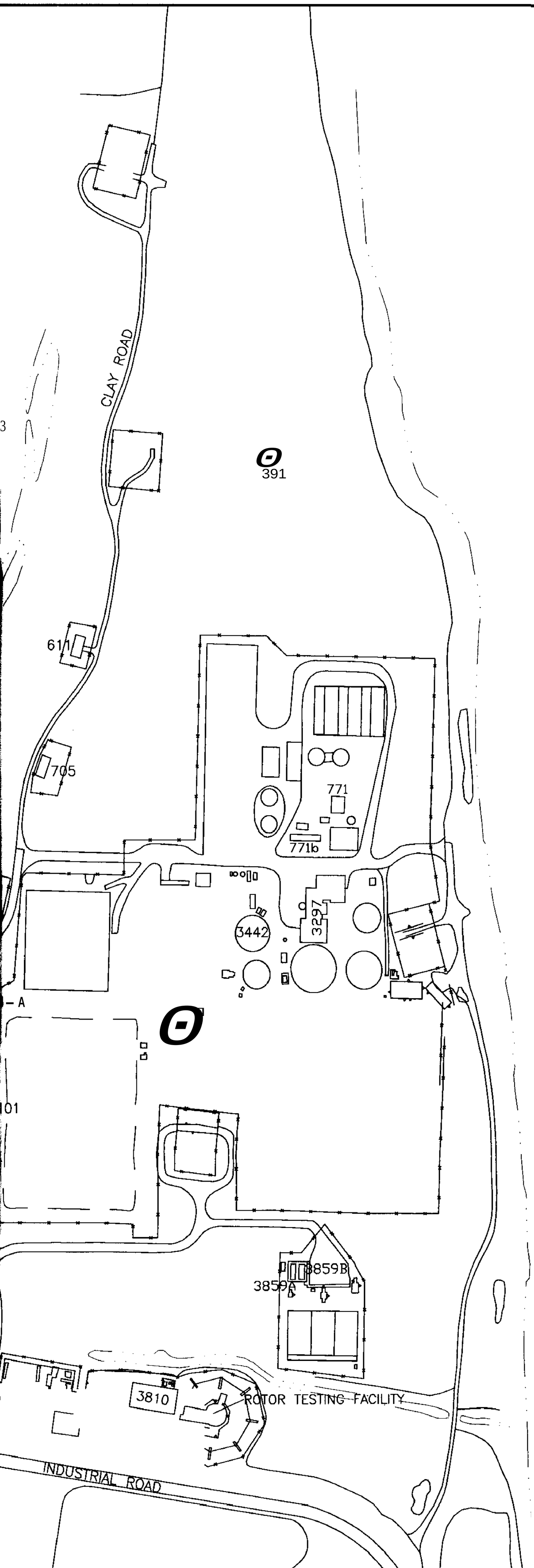
11GM48
3628
11GS07
11GI08
12GS05
12GS06
11GI04
11GS03
11GM36
11GM49
3627
26GS02
26GS01
26GS03
26GS04
26GS05
12GS08
12GS09
11GM15
12GS10
12GS16
12GS13
11GI10
11GS09
11GM51
11GI02
11GS01
12GS15
12GS14
11GI15
11GI12
11GS11
2654
11GS52
11GI14
11GS13



PHASE I INTERMEDIATE GROUNDWATER-VO
- CHLORINATED

SITE	MONITORING WELL ID	1,2-DCA	1,1-DCE	1,2-DCE (total)	Bromodichlo-romethane	Chloromethane	Chlorob
UNITS	(µg/L)	3 (2)	7 (2)	70 (2)	0.6 (1)	2.7 (1)	3.9
11							
	11-G-I002						
	11-G-I010	9 J					
	11-G-I012			110			
	11-G-I014			580			
25							
	25-G-I001						
	25-G-I002						
27							
	27-G-I002						95
	27-G-I004		14				
	27-G-I005					3 J	
30							
	30-GI009						6
	30-G-I111						62C
	30-G-I164		410				
	30-G-I170						
	30-G-I32A		14 J				
	30-G-I019						
	30-G-I060				1 J		

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP-RISK-BASED CONCENTRATION FOR TAP WATER

PENSACOLA BAY

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743

e

1,2-DCA
1,1-DCE
1,2-DCE(total)
PCE
TCE
1,1,1-TCA

PHASE I INTERMEDIATE GROUNDWATER-VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES - CHLORINATED AND ASSOCIATED COMPOUNDS

ITORING WELL ID	1,2-DCA	1,1-DCE	1,2-DCE (total)	Bromodichlo-romethane	Chloromethane	Chlorobenzene	Dibromochlo-romethane	Methylene Chloride	PCE	TCE	1,1,1-TCA	Vinyl Chloride
ıg/L)	3 (2)	7 (2)	70 (2)	0.6 (1)	2.7 (1)	3.9 (3)	1 (1)	5 (2)	3 (2)	3 (2)	200 (2)	1 (2)
-G-1002										3 J		
-G-1010	9 J											
-G-1012			110							14		
-G-1014			580									88
5-G-1001										14		
5-G-1002										5 J		
7-G-1002						95						4 J
7-G-1004		14										
7-G-1005					3 J							
0-G-1009						6 J						
0-G-1111						*620* D						*20*
0-G-1164		410						11 *3*			950	
0-G-1170									3 J	**34**		
0-G-132A		14 J									300	
0-G-1019										*22*		
0-G-1060				1 J			2 J					

GC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
DWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3C TAP-RISK-BASED CONCENTRATION FOR TAP WATER

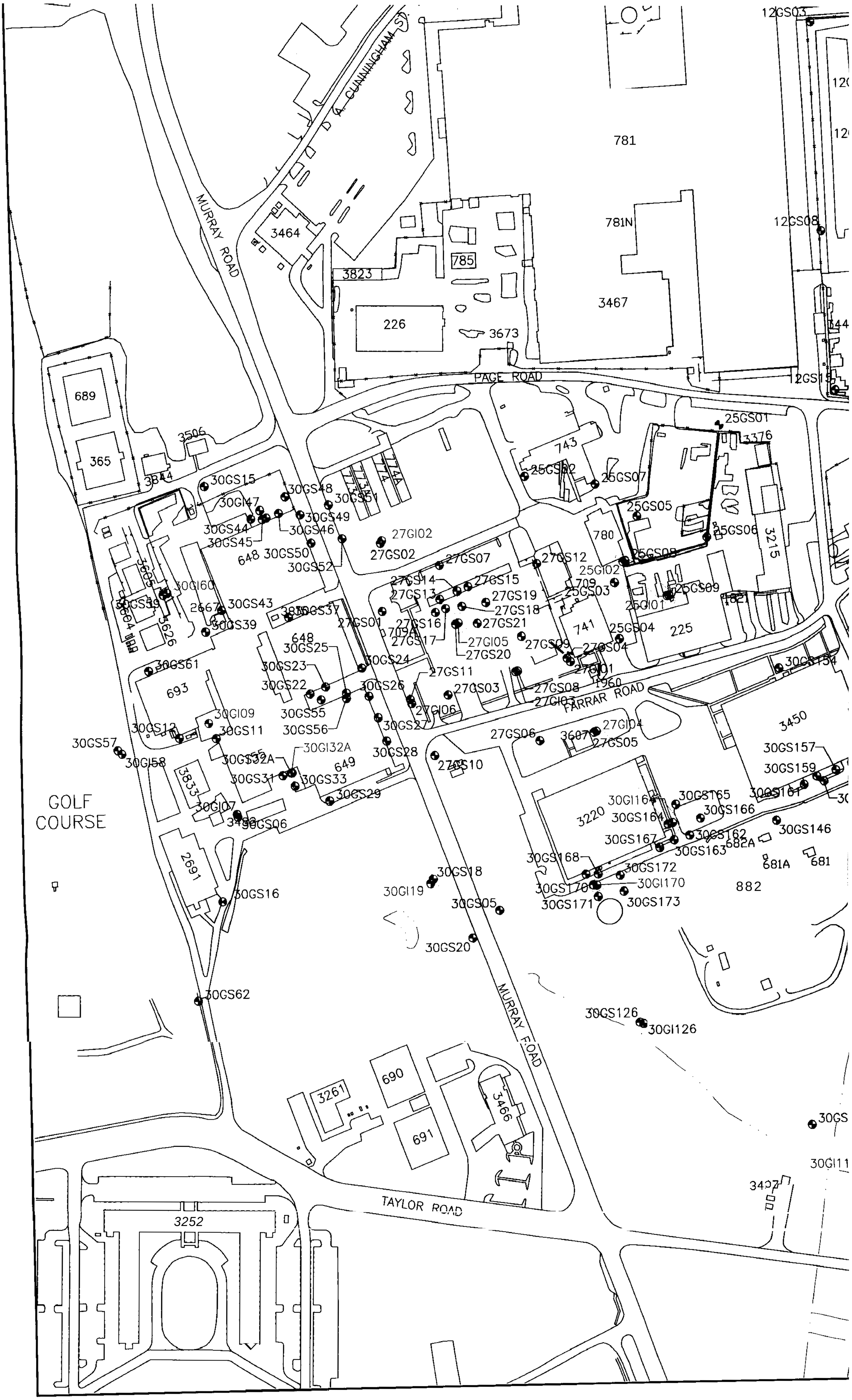
PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 — BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING PHASE I INTERMEDIATE GROUNDWATER CHLORINATED **AND** ASSOCIATED COMPOUND EXCEEDANCES)

1,2-DCA	1,2-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
1,2-DCE(total)	1,2-DICHLOROETHENE(total)
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE

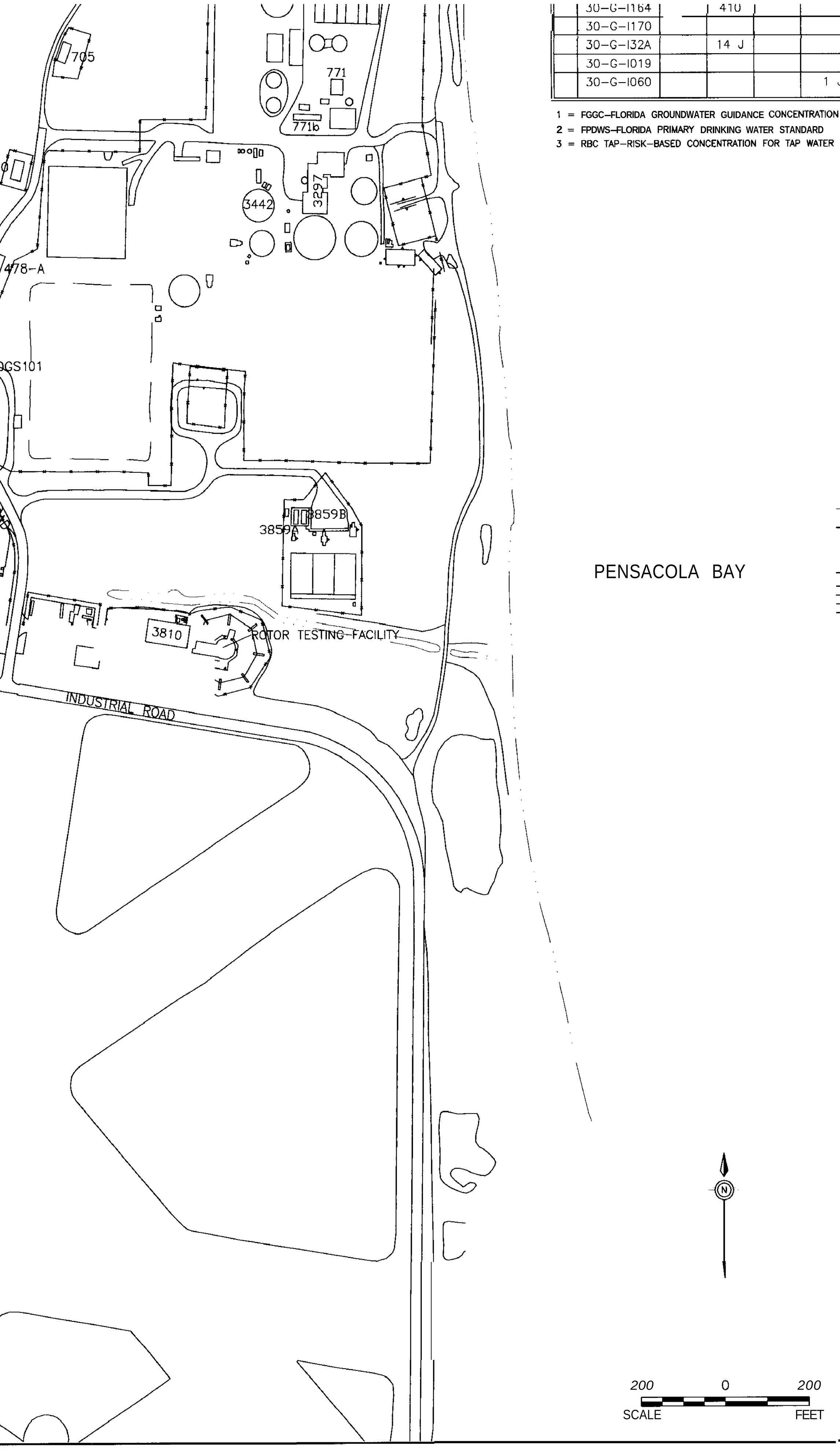
APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER CHLORINATED AND ASSOCIATED VOLATILE ORGANIC COMPOUND


A. CUNNINGHAM ST.
MURRAY ROAD
3464
3823
785
226
3673
781
781N
3467
12GS03
12GS08
12GS15
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
774A
774
743
25GS02
25GS07
25GS05
25GS06
25GS08
25GS01
3376
780
3215
25GI02
709
25GS03
25GS09
25GI01
1821
741
25GS04
225
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
1960
FARRAR ROAD
30GS154
30GI60
30GS39
2667
30GS43
3835
30GS37
27GS01
709A
3626
3604
3605
30GS61
693
648
30GS25
30GS23
30GS24
30GS22
30GS26
27GS11
27GS03
27GS08
27GI03
27GI06
30GI09
30GS55
30GS56
30GS27
30GS12
30GS11
30GS57
30GI58
30GS32A
30GI32A
30GS31
30GS33
649
30GS28
27GS10
27GS06
3607
27GI04
27GS05
3450
30GS157
30GS159
30GS161
3833
30GI07
30GS29
30GS06
GOLF
COURSE
30GI164
30GS165
30GS166
3220
30GS164
30GS167
30GS162
30GS163
682A
30GS146
681A
681
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
882
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
MURRAY ROAD
30GS126
30GI126
690
3261
691
3466
30GS
30GI11
3437
TAYLOR ROAD
3252

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS01
26GS03
26GS04
26GS05
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
11GI02
11GS01
12GS15
12GS14
3445
25GS01
3376
786
11GS11
467
2654
3493
3496
11GS52
11GI14
25GS06
3215
11GS13
25GS09
3621
225
3614
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
30GS163
682A
681A
681
682
30GI113
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
705
610
478-A
11GI10
11GS09
11GM51
30GS101
11GI15
BELLINGER ROAD
11GI12
30GS103
CLAY ROAD
3644
30GS105
3810
INDUSTRIAL ROAD
INDUSTRIAL ROAD

	30-G-1164		410			
	30-G-1170					
	30-G-132A		14 J			
	30-G-1019					
	30-G-1060				1 J	

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP-RISK-BASED CONCENTRATION FOR TAP WATER



1. HIGHLIGHTED
PHASE I INT
GRAY WELLS
VOLATILE OR
2. J VALUE IND
3. D VALUE IND
4. ALL CONCEN
5. ANALYTICAL
REFLECTIVE
SEE DISCUS

50-G-1164		410						11 J			950	
30-G-1170									3 J	34		
30-G-132A		14 J									300	
30-G-1019										22		
30-G-1060				1 J			2 J					

GC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
PDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
BC TAP-RISK-BASED CONCENTRATION FOR TAP WATER

PENSACOLA BAY

LEGEND,

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE I INTERMEDIATE GROUNDWATER CHLORINATED AND ASSOCIATED COMPOUND EXCEEDANCES)

1,2-DCA	1,2-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
1,2-DCE(total)	1,2-DICHLOROETHENE(total)
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER CHLORINATED AND ASSOCIATED VOLATILE ORGANIC COMPOUND CONCENTRATIONS EXCEEDING FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND FLORIDA PRIMARY DRINKING WATER STANDARDS,

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE PHASE I INTERMEDIATE GROUNDWATER VOLATILE ORGANIC COMPOUND EXCEEDANCES, GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER VOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES ANALYTICAL VALUE IS DERIVED FROM A DILUTED SAMPLE.
4. ALL. CONCENTRATIONS ARE IN $\mu g/L$.
5. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

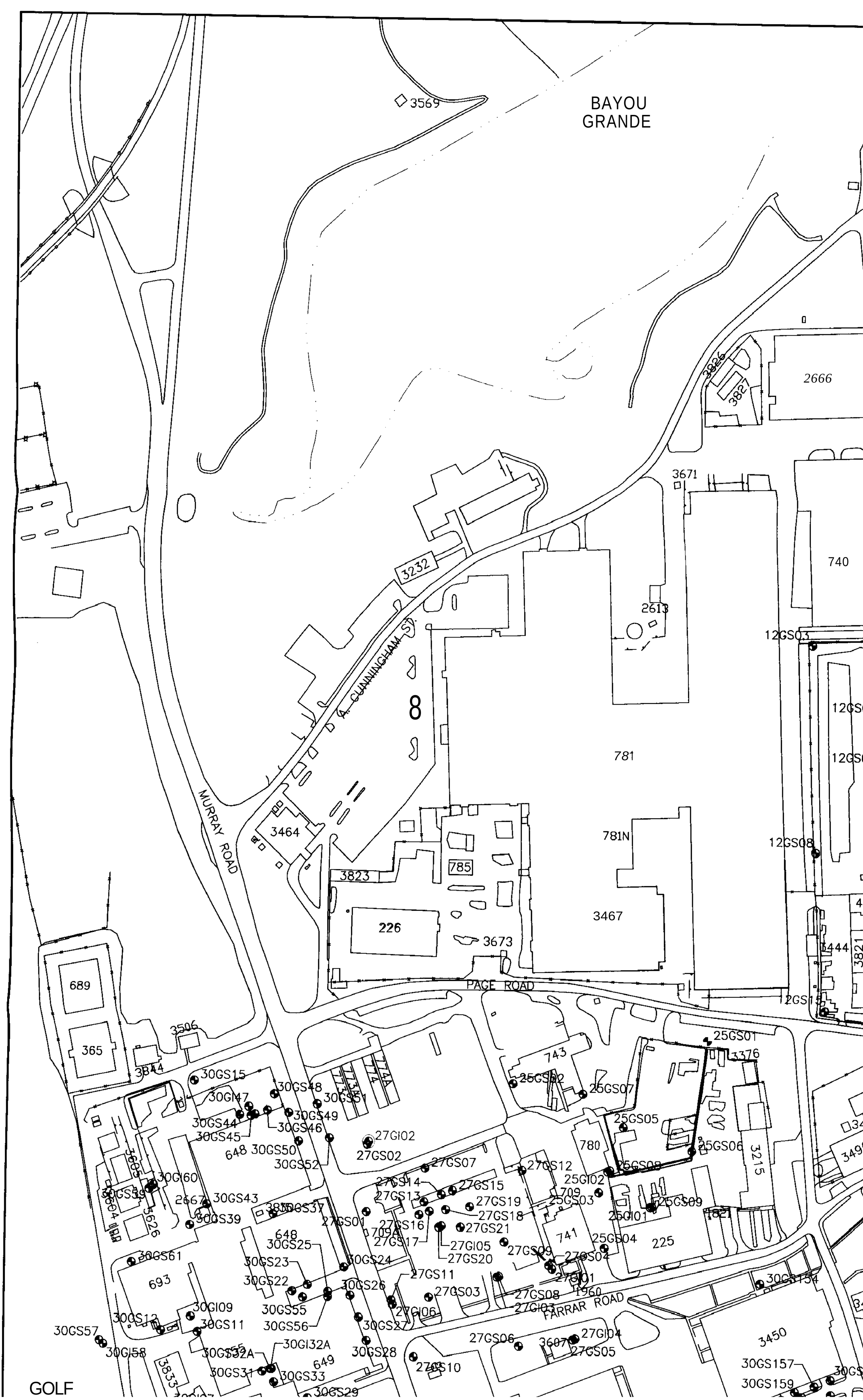
200 0 200
SCALE FEET

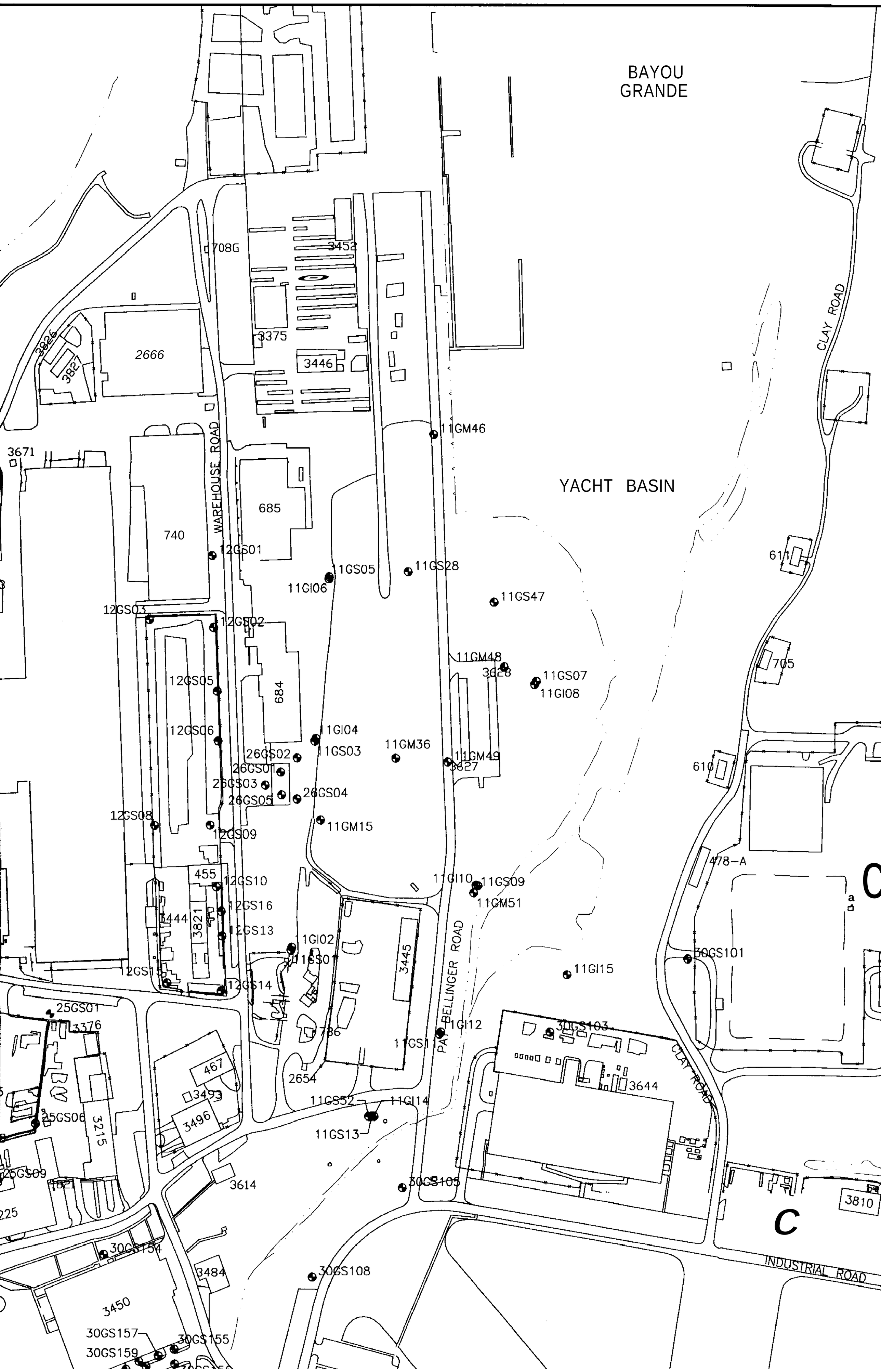
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 24
PHASE I INTERMEDIATE GROUNDWATER SELECTED VOLATILE ORGANIC COMPOUNDS (VOC) EXCEEDANCES-CHLORINATED AND ASSOCIATED COMPOUNDS

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2NCP	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
3232
A. CUNNINGHAM SD.
8
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
689
PAGE ROAD
12GS15
3506
365
3844
25GS01
3376
743
30GS15
30GS48
30GI47
30GS51
25GS02
25GS07
30GS49
30GS44
30GS46
25GS05
30GS45
27GI02
648
30GS50
27GS02
780
25GS06
3215
30GS52
27GS07
27GS12
25GS08
30GI60
27GS14
27GS15
25GI02
27GS13
709
27GS19
25GS03
25GS09
30GS43
27GS18
25GI01
2667
30GS39
27GS01
27GS16
27GS21
709A
741
25GS04
225
648
27GS17
27GI05
27GS09
30GS25
27GS20
27GS04
30GS61
30GS23
30GS24
27GS11
693
30GS22
30GS26
27GI01
30GS154
27GS03
27GS08
1960
30GI09
30GS55
27GI03
FARRAR ROAD
30GS12
30GS11
30GS56
27GI06
30GS27
30GS57
27GS06
3607
27GI04
3450
30GI58
30GI32A
30GS28
27GS05
649
27GS10
30GS157
30GS31
30GS33
30GS159
30GS29
GOLF


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
740
685
684
455
3444
3821
3445
467
3493
3496
3215
3376
25GS01
25GS06
25GS09
3225
3614
3484
3450
30GS154
30GS157
30GS159
30GS155
30GS108
30GS105
30GS103
30GS101
3644
3810
478-A
611
610
705
11GM46
12GS01
11GS05
11GS28
11GI06
11GS47
12GS03
12GS02
11GM48
3628
11GS07
11GI08
12GS05
12GS06
11GI04
11GS03
11GM36
26GS02
26GS01
26GS03
26GS05
26GS04
11GM49
3827
12GS08
12GS09
11GM15
12GS10
12GS16
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11GI10
11GS09
11GM51
1GI02
11GS01
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12GS14
11GI15
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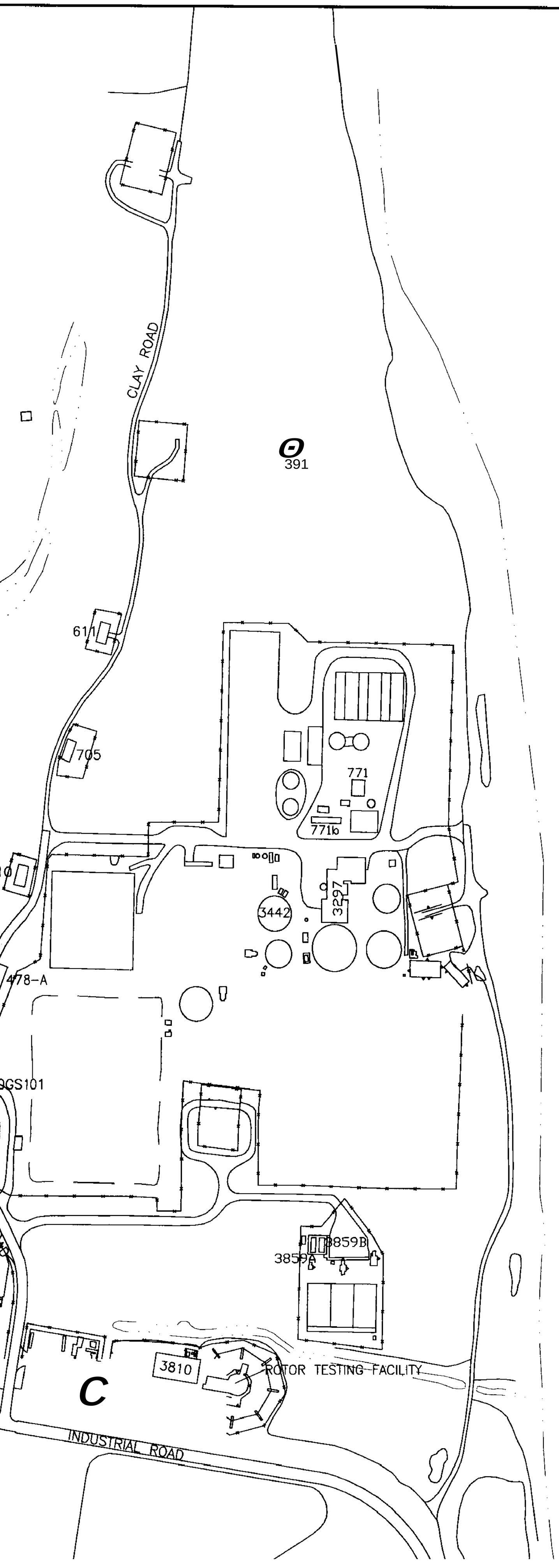
786
11GS11
2654
11GS52
11GI14
11GS13
C



PENSACOLA BAY

PHASE I INTERMEDI ORGANIC COMPOUND		
SITE	MONITORING WELL ID	Benze
UNITS	(µg/L)	1 (
27		
	27-G-1002	22
30		
	30-G-1111	2

1 = FGGC-FLORIDA GROUNDWATER GUID
2 = FSDWS-FLORIDA SECONDARY DRINKI

74

e

BET

PHASE I INTERMEDIATE GROUNDWATER-VOLATILE ORGANIC COMPOUND (VOCs) - BETX EXCEEDANCES

SITE	MONITORING WELL ID	Benzene	Ethylbenzene	Toluene	Xylene (total)
UNITS	(µg/L)	1 (1)	30 (2)	40 (2)	20 (2)
27					
	27-G-1002	25			34
30					
	30-G-1111	23			

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

PENSACOLA BAY

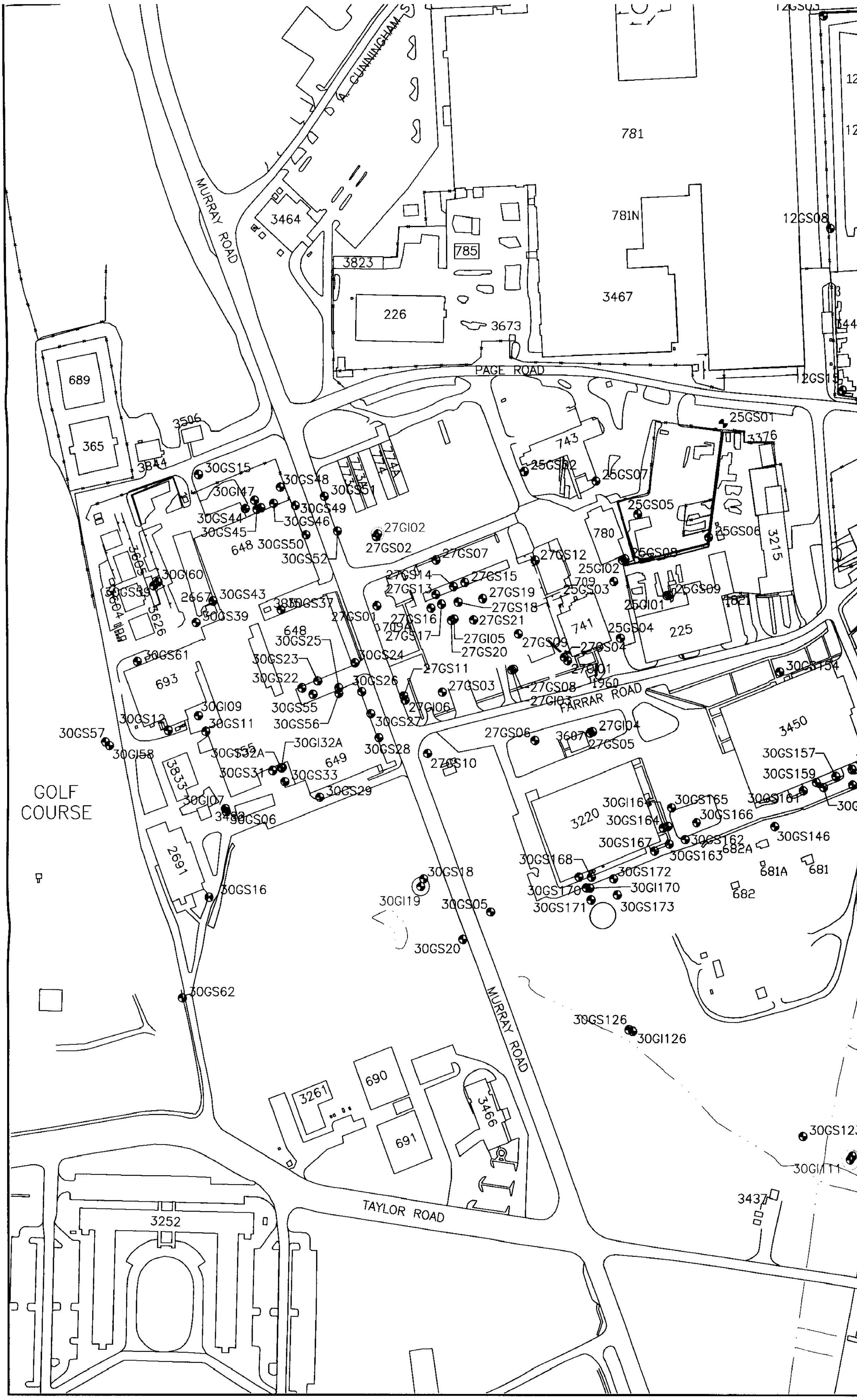
LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING VOLATILE ORGANIC COMPOUND-BETX INTERMEDIATE GROUNDWATER EXCEEDANCES).

BETX BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total)

APPROXIMATE **ARE3** OF PHASE I INTERMEDIATE GROUNDWATER BENZENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

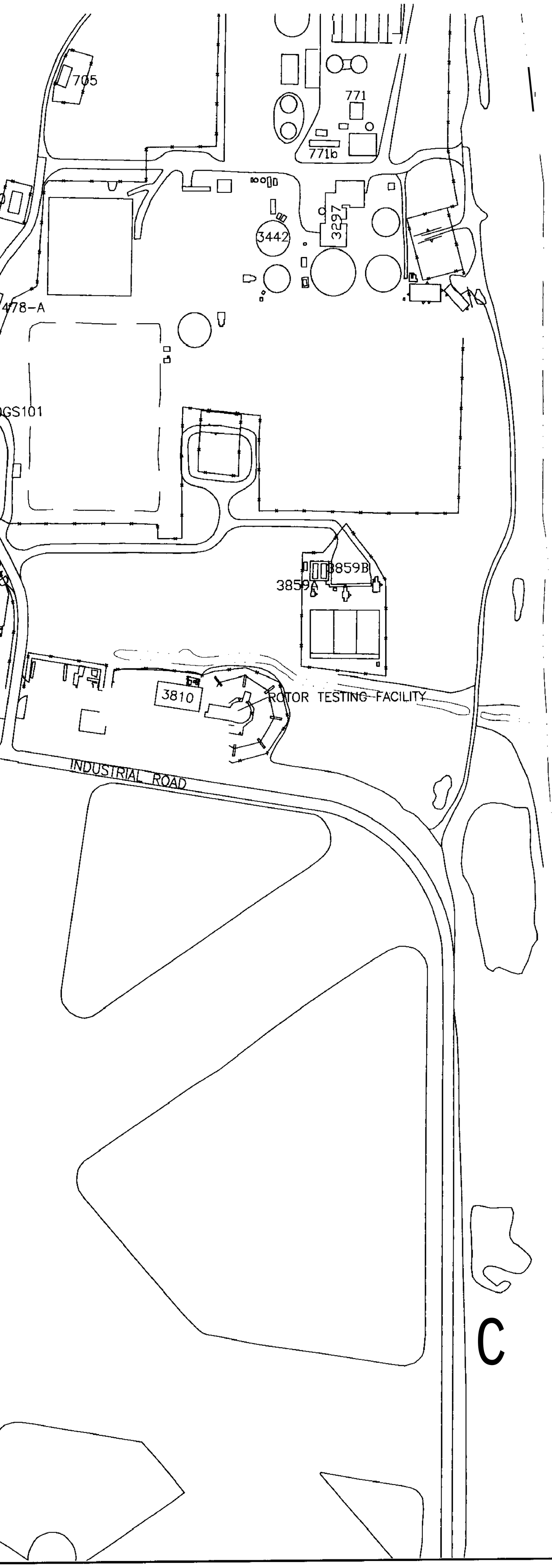
APPROXIMATE **AREA** OF PHASE I INTERMEDIATE GROUNDWATER BENZENE **AND** XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER 'GUIDANCE CONCENTRATION **AND** FLORIDA SECONDARY DRINKING WATER STANDARD.


A. CUNNINGHAM
MURRAY ROAD
3464
3823
785
226
3673
3467
781
781N
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS45
30GS46
648
30GS50
30GS52
27GI02
27GS02
774A
774
743
25GS02
25GS07
25GS01
3376
25GS05
25GS06
780
3215
27GS07
27GS12
25GI02
709
25GS03
25GS09
25GS08
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS01
709A
741
25GS04
225
25GI01
1621
30GI60
30GS39
2667
30GS43
3835
30GS37
30GS39
3626
3604
648
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS09
27GS04
27GI01
1960
27GS08
27GI03
FARRAR ROAD
30GS61
693
30GI09
30GS12
30GS11
30GS55
30GS56
27GI06
30GS27
30GS57
30GI58
30GS32A
30GI32A
649
30GS28
27GS10
27GS06
3607
27GI04
27GS05
3450
30GS157
30GS159
3833
30GS31
30GS33
30GS29
30GI07
3490
30GS06
GOLF
COURSE
30GI164
30GS165
30GS161
3220
30GS164
30GS166
30GS167
30GS162
30GS163
682A
30GS146
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
681A
681
682
2691
30GS16
30GS18
30GI19
30GS05
30GS20
30GS62
MURRAY ROAD
30GS126
30GI126
690
3261
691
3466
30GS123
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS01
26GS03
26GS05
26GS04
11GM36
11GM48
3628
11GS07
11GI08
11GM49
3627
705
610
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
11GI02
11GS01
3445
11GI10
11GS09
11GM51
478-A
30GS101
11GI15
12GS15
12GS14
25GS01
3376
736
11GS11
BELLINGER ROAD
11GI12
30GS103
CLAY ROAD
467
3493
3496
2654
11GS52
11GI14
3644
25GS06
3215
11GS13
25GS09
1821
3614
30GS105
3810
225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
682A
30GS163
681A
681
682
30GI113
30GS113
126
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557

30		
	30-G-I111	2

1 = FGGC-FLORIDA GROUNDWATER GUIDA
2 = FSDWS-FLORIDA SECONDARY DRINKIN



PENSACOLA BAY

743

BET

1. HIGHLIGHTED MONIT
VOLATILE ORGANIC
GRAY WELLS INDIC
GROUNDWATER EXC
2. 3 VALUE INDICATE5
3. D VALUE INDICATE
4. ALL CONCENTRATIO
5. ANALYTICAL RESUL
REFLECTIVE OF CO
SEE DISCUSSION I

200 0 200
SCALE FEET

30					
	30-G-I111	2 J			

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING VOLATILE ORGANIC COMPOUND-BETX INTERMEDIATE GROUNDWATER EXCEEDANCES).

BETX BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total)

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER BENZENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER BENZENE AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND FLORIDA SECONDARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE VOLATILE ORGANIC COMPOUND-BETX GROUNDWATER EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF VOLATILE ORGANIC COMPOUND-BETX GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES ANALYTICAL VALUE IS DERIVED FROM A DILUTED SAMPLE,
4. ALL CONCENTRATIONS ARE IN $\mu g/L$.
5. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

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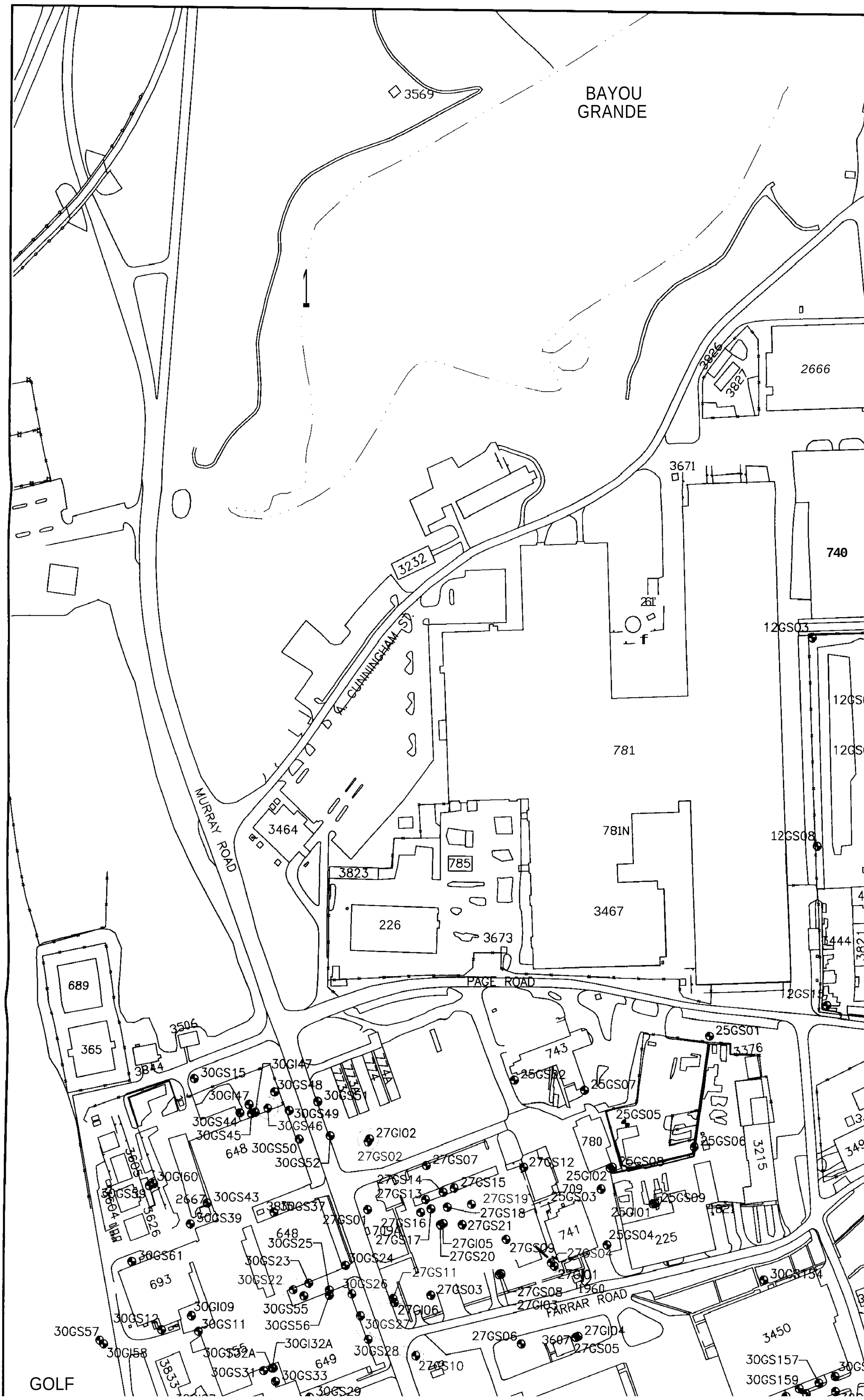
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 25
PHASE I INTERMEDIATE GROUNDWATER
VOLATILE ORGANIC COMPOUND (VOC) -
BENZENE, ETHYLBENZENE, TOLUENE, XYLENE (total) EXCEEDANCES

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2BTX	Of 1

SECTIONS TO FOLLOW ON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GRANDE
3569
3826
3827
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3671
740
261'
f
12GS03
781
781N
12GS08
3232
A. CUNNINGHAM ST.
MURRAY ROAD
3464
785
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226
3467
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PAGE ROAD
12GS15
689
365
3506
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743
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3376
30GS15
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27GI02
27GS02
27GS07
27GS12
25GS02
25GS07
25GS05
25GS06
780
25GS08
25GI02
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3215
30GI60
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30GS43
30GS37
27GS01
27GS14
27GS15
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27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
741
25GS04
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30GS61
693
30GS25
30GS23
30GS24
30GS22
30GS26
27GS11
27GS03
27GS08
27GI03
27GI01
1960
FARRAR ROAD
30GS154
30GI09
30GS55
30GS56
27GI06
30GS12
30GS11
30GS27
30GS57
30GI58
30GS32A
30GI32A
30GS28
27GS10
27GS06
3607
27GI04
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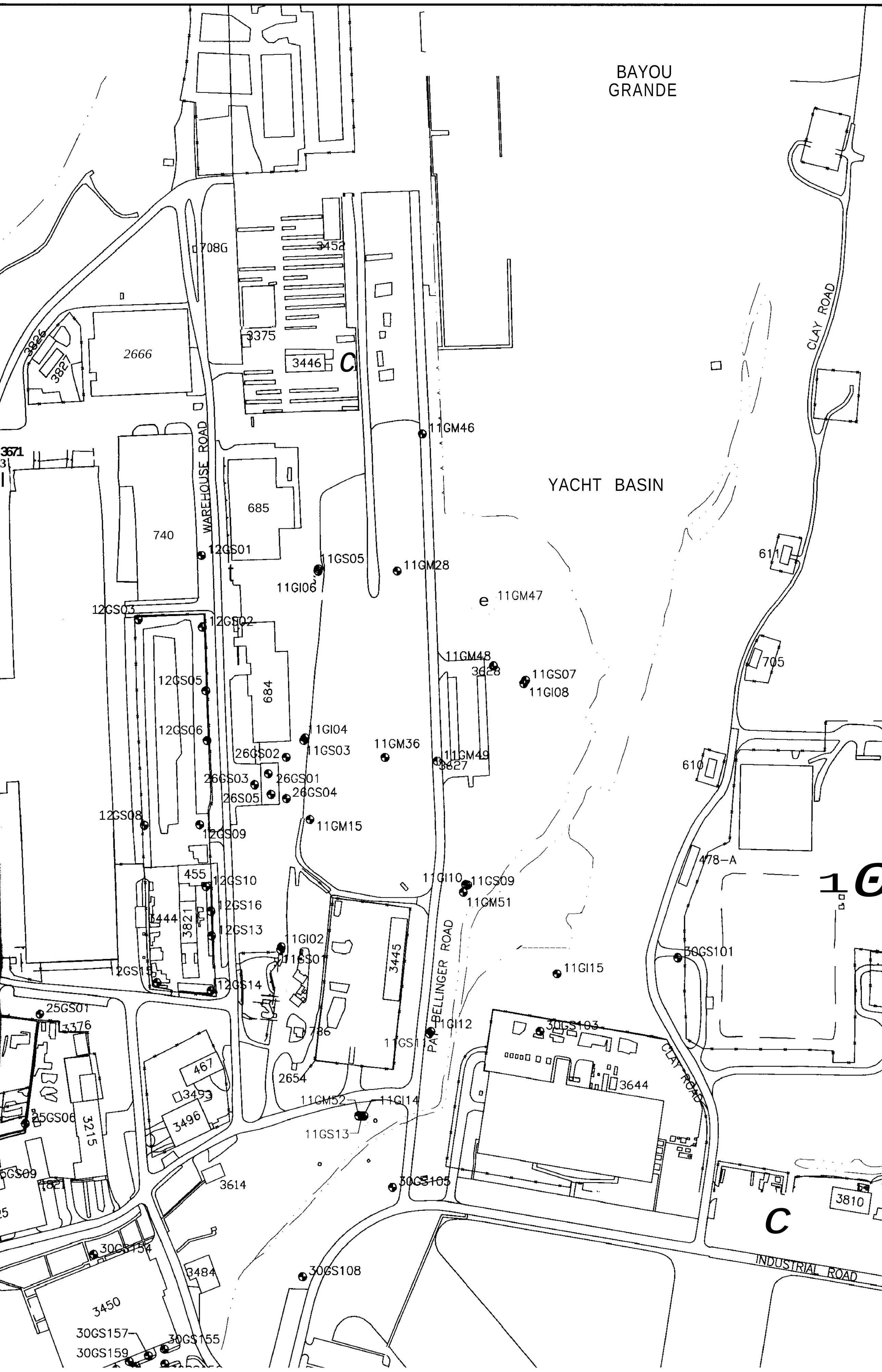
3833
3626
3604
3605
GOLF


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
740
685
684
12GS01
11GS05
11GI06
11GM28
11GM47
12GS03
12GS02
12GS05
12GS06
11GM48
3628
11GS07
11GI08
11GI04
11GS03
11GM36
26GS02
11GM49
3627
26GS03
26GS01
26GS04
26S05
12GS08
12GS09
11GM15
455
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12GS16
12GS13
3444
3821
11GI02
11GS01
3445
12GS15
12GS14
11GI10
11GS09
11GM51
11GI15
30GS101
25GS01
3376
11GI12
30GS103
3644
467
3493
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11GM52
11GI14
11GS13
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3215
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30GS157
30GS155
30GS159
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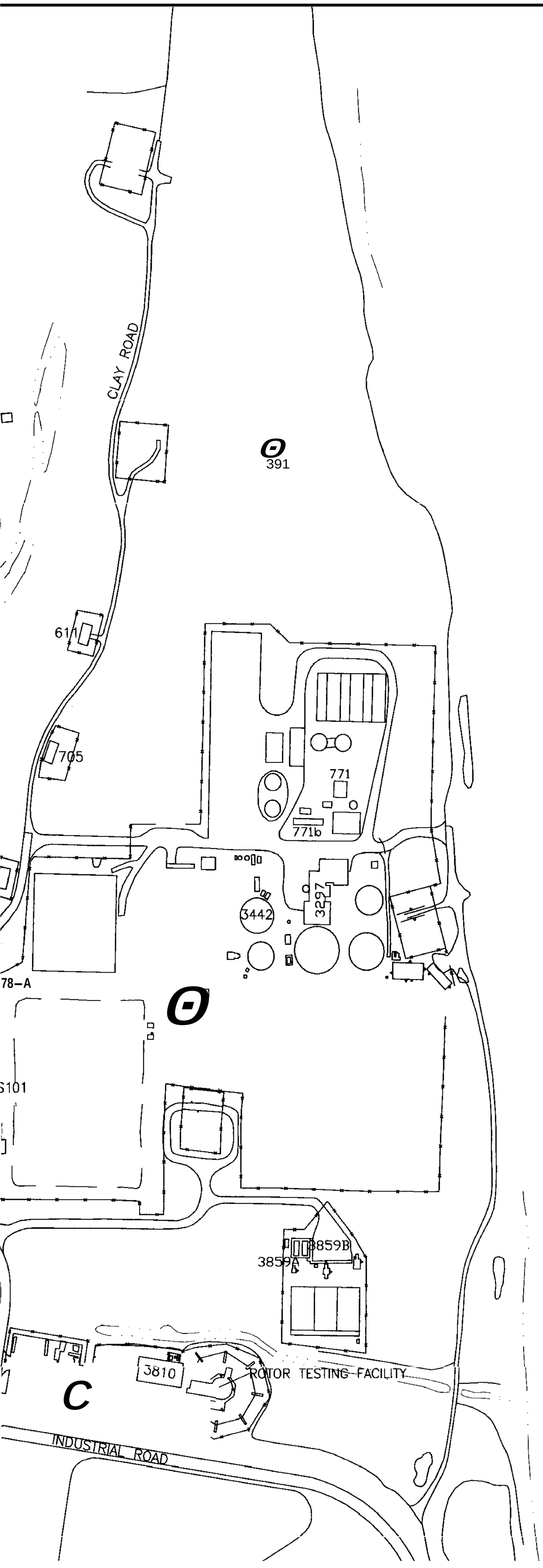
705
610
478-A



PENSACOLA BAY

PHASE II WALLOW GROUNDWATER-VOLATILE
-CHLORINATED AND AS

SITE	MONITORING WELL ID	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	Chlorobenzene
	UNITS (μg/L)	700 (1)	3 (2)	7 (2)	70 (2)	3.9 (3)
11						
	11-G-GS11					5
	11-G-GS13					
	11-G-GM47					
	11-G-GM52			10	970 D	
27						
	27-G-GS02					
	27-G-GS04					
	27-G-GS10		37 D	110 D		
	27-G-GS11			12 J		
	27-G-GS19					
30						
	30-G-GS111					19 J
	30-G-GS22	1400 D		68 D		
	30-G-GS26	***2600*** D		140		
	30-G-GS27	**4300** D	200 D	240 D		
	30-G-GS28	2400 D	220 D	130 D	120 D	
	30-G-GS46				190 D	
	30-G-GS172			46 D		

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP-RISK-BASED CONCENTRATION FOR TAP WATER

1,1-
1,2-
1,1-

PHASE II SHALLOW GROUNDWATER-VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES -CHLORINATED AND ASSOCIATED COMPOUNDS

ONITORING WELL ID	1,1-DCA	1,2-DCA	1,1-DCE	cis-1,2-DCE	Chlorobenzene	Chloroethane	PCE	1,1,1-TCA	TCE	Vinyl Chloride
(µg/L)	700 (1)	3 (2)	7 (2)	70 (2)	3.9 (3)	140 (1)	3 (2)	79 (2)	3 (2)	1 (2)
11-G-GS11					5					
11-G-GS13							7 J		5 3	3 J
11-G-GM47										48 D
11-G-GM52			10	970 D			23		50	74 D
27-G-GS02									3	
27-G-GS04									7	
27-G-GS10		37 D	110 D				9	320 D		
27-G-GS11			12 J							
27-G-GS19							32 D		17	
30-G-GS111					19 J					
30-G-GS22	1400 D		68 D				13	2100 D	3	
30-G-GS26	2600 D		140			180 DJ	12	740 D	3	1
30-G-GS27	4300 D	200 D	240 D			520 D	12	1700 D	3	
30-G-GS28	2400 D	220 D	130 D	120 D		580 D	10	2000 D	5	
30-G-GS46				190 D			1100 D		58 D	
30-G-GS172			46 D				3		3	

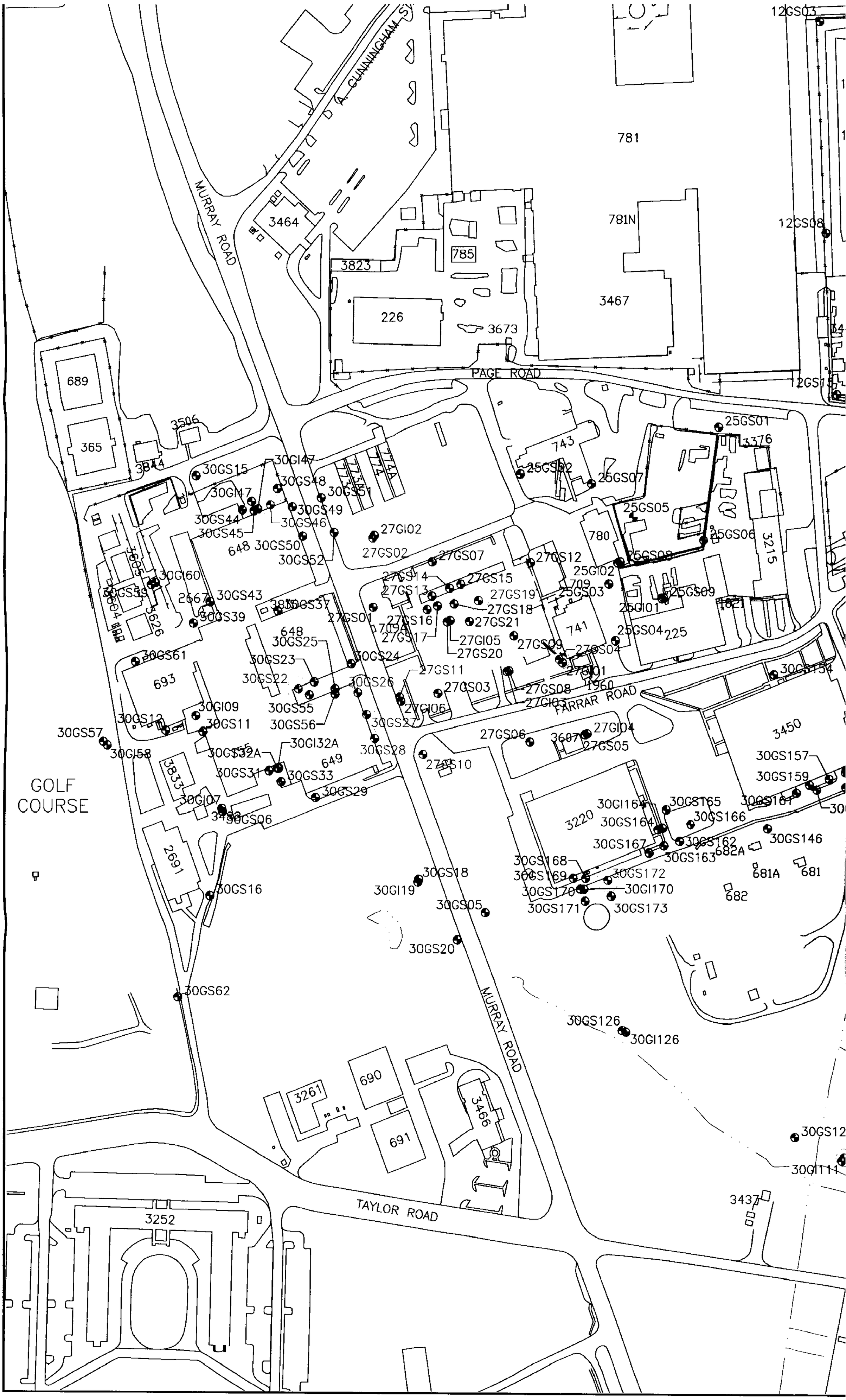
GGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
PDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
BC TAP-RISK-BASED CONCENTRATION FOR TAP WATER

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW GROUNDWATER CHLORINATED AND ASSOCIATED COMPOUND EXCEEDANCES)

1,1-DCA I,1-DICHLOROETHANE
1,2-DCA 1,2-DICHLOROETHANE
1.1-DCE 1.1-DICHLOROETHENE


A. CUNNINGHAM ST
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3464
3823
226
3467
3673
689
365
3506
3844
743
774
774A
774B
774C
780
741
709
709A
648
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2691
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3261
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3252
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3220
3607
3626
3604
3603
3833
1960
1621
225
682A
681A
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12GS03
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30GS172
30GS170
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30GS171
30GS173
30GS12
30GI111
3437

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS03
26GS01
26GS04
26S05
12GS08
12GS09
11GM15
455
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11GI02
11GS01
12GS15
12GS14
3445
25GS01
3376
786
2654
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30GS154
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30GS165
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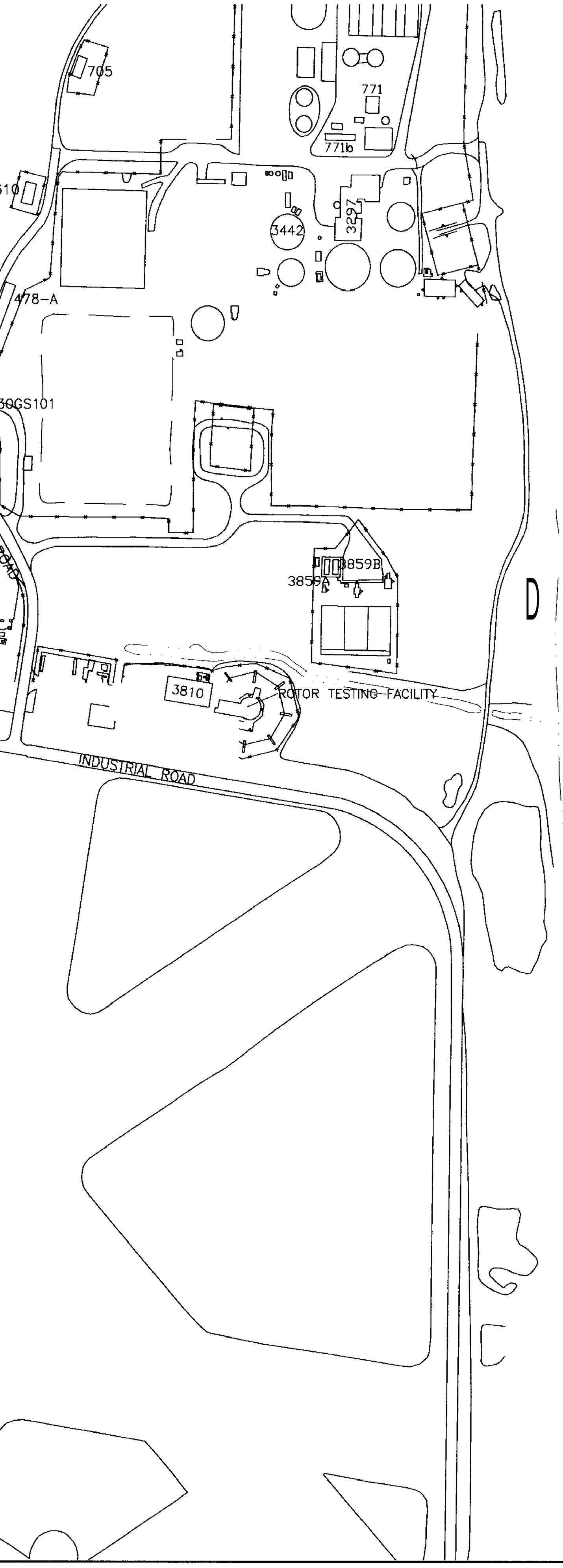
682A
30GS163
681A
681
682
30GI13
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
11GI10
11GS09
11GM51
BELLINGER ROAD
11GI15
11GI12
30GS103
CLAY ROAD
3644
11GM52
11GI14
11GS13
30GS105
INDUSTRIAL ROAD
705
610
478-A
30GS101
381

	27-G-GS10		37 D	110 D		
	27-G-GS11			12 J		
	27-G-GS19					
30						
	30-G-GS111					19 J
	30-G-GS22	1400 D		68 D		
	30-G-GS26	2600 D		140		
	30-G-GS27	4300 D	200 D	240 D		
	30-G-GS28	2400 D	220 D	130 D	120 D	
	30-G-GS46				190 D	
	30-G-GS172			46 D		

1 = FGGC–FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

2 = FPDWS–FLORIDA PRIMARY DRINKING WATER STANDARD

3 = RBC TAP–RISK–BASED CONCENTRATION FOR TAP WATER



PENSACOLA BAY

1. HIG
SE
GR
GR
VO
2. J
3. D
4. ALL

N

200 0 200

SCALE FEET

	27-G-GS10		37 D	110 D				9	320 D		
	27-G-GS11			12 J							
	27-G-GS19							32 D		17	
30											
	30-G-GS111					19 J					
	30-G-GS22	1400 D		68 D				13	2100 D	3	
	30-G-GS26	2600 D		140			180 DJ	12	740 D	3	1
	30-G-GS27	4300 D	200 D	240 D			520 D	12	1700 D	3	
	30-G-GS28	2400 D	220 D	130 D	120 D		580 D	10	2000 D	5	
	30-G-GS46				190 D			1100 D		58 D	
	30-G-GS172			46 D				3		3	

= FGGC—FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
= FPDWS—FLORIDA PRIMARY DRINKING WATER STANDARD
= RBC TAP—RISK—BASED CONCENTRATION FOR TAP WATER

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW GROUNDWATER CHLORINATED AND ASSOCIATED COMPOUND EXCEEDANCES)

1,1-DCA	1,1-DICHLOROETHANE
1,2-DCA	1,2-DICHLOROETHANE
1,1-DCE	1,1-DICHLOROETHENE
cis-1,2-DCE	CIS-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
1,1,1-TCA	1,1,1-TRICHLOROETHANE
TCE	TRICHLOROETHENE

APPROXIMATE AREA OF PHASE II SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUND CONCENTRATIONS EXCEEDING FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND FLORIDA PRIMARY DRINKING WATER STANDARDS.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SELECTED PHASE II SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE II SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

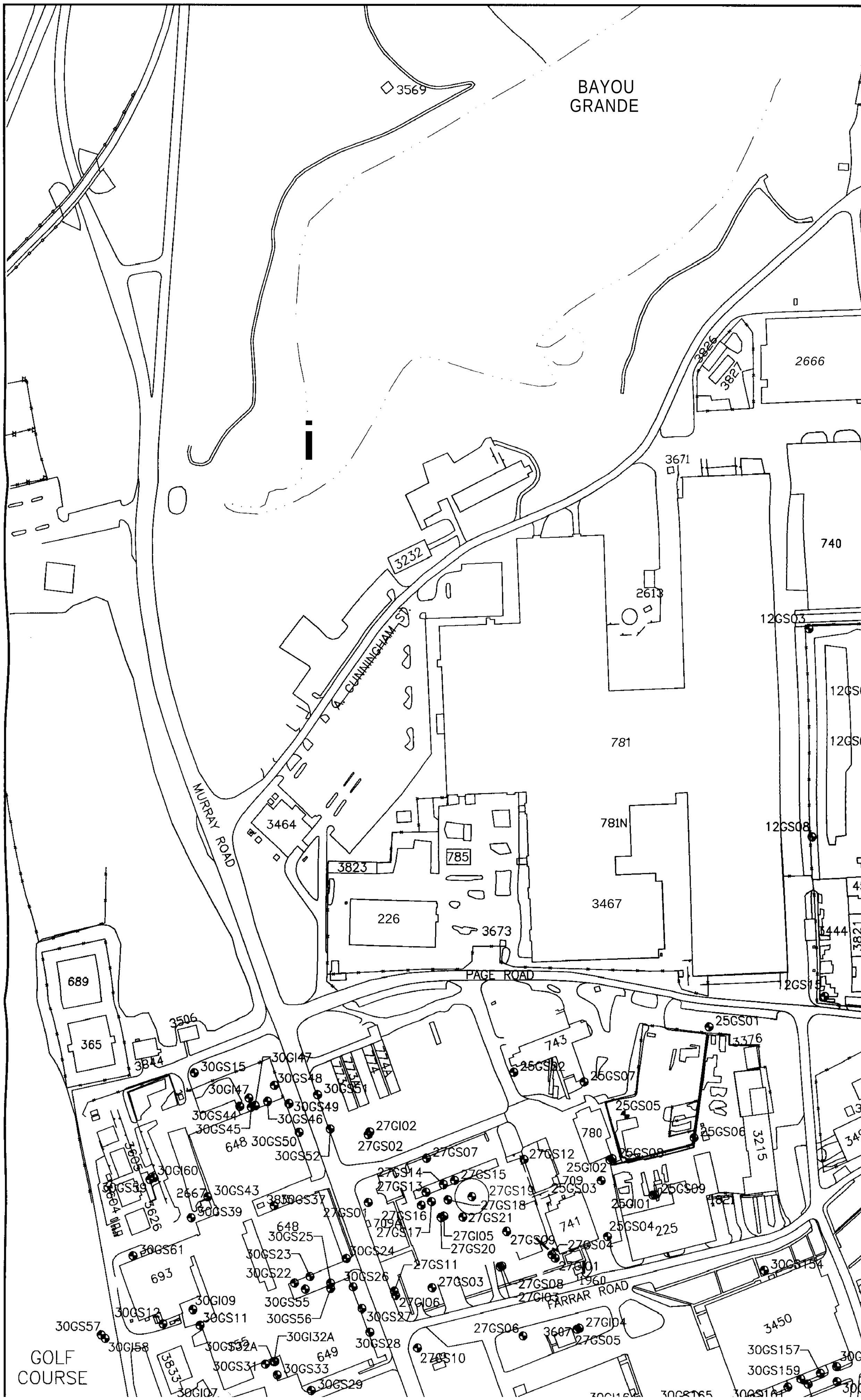
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 26
PHASE II SHALLOW GROUNDWATER
VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES–
CHLORINATED AND ASSOCIATED COMPOUNDS

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2SWC	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
3826
3827
2666
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
12GS15
689
365
3506
3844
25GS01
3376
743
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30GS49
30GS44
30GS46
30GS45
27GI02
27GS02
648
30GS50
30GS52
25GS02
25GS07
25GS05
780
25GS06
3215
27GS07
27GS12
25GS08
25GI02
709
25GS03
25GS09
25GI01
30GI60
30GS59
2667
30GS43
30GS37
30GS39
27GS01
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
709A
27GS17
27GI05
27GS20
741
25GS04
225
27GS09
27GS04
27GI01
1960
30GS61
648
30GS25
30GS23
30GS24
30GS22
30GS26
27GS11
27GS03
27GS08
27GI03
FARRAR ROAD
30GI54
693
30GI09
30GS55
30GS56
27GI06
30GS12
30GS11
30GS27
30GS57
30GI58
30GS32A
30GI32A
30GS28
27GS06
3607
27GI04
27GS05
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30GS33
649
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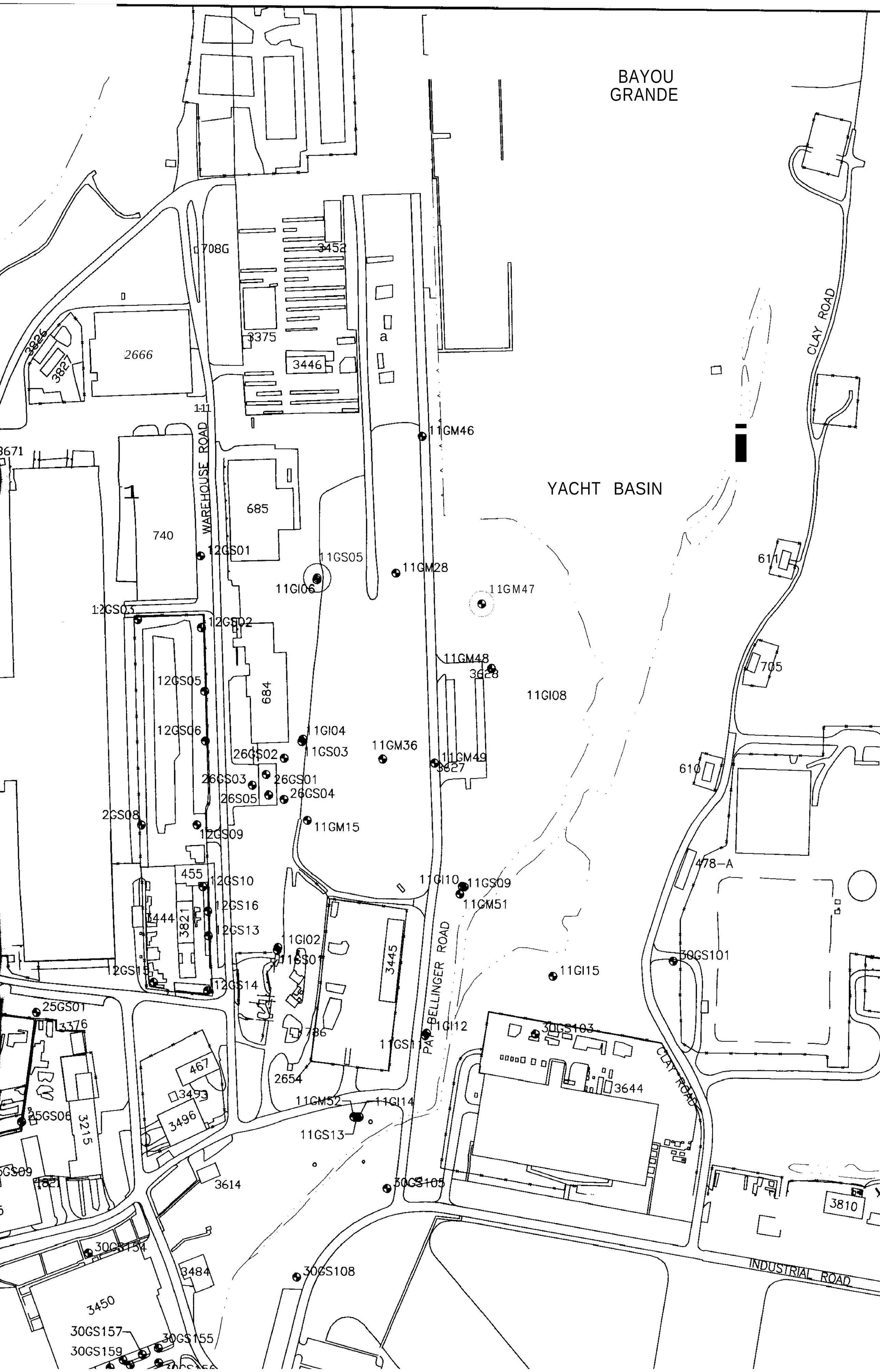
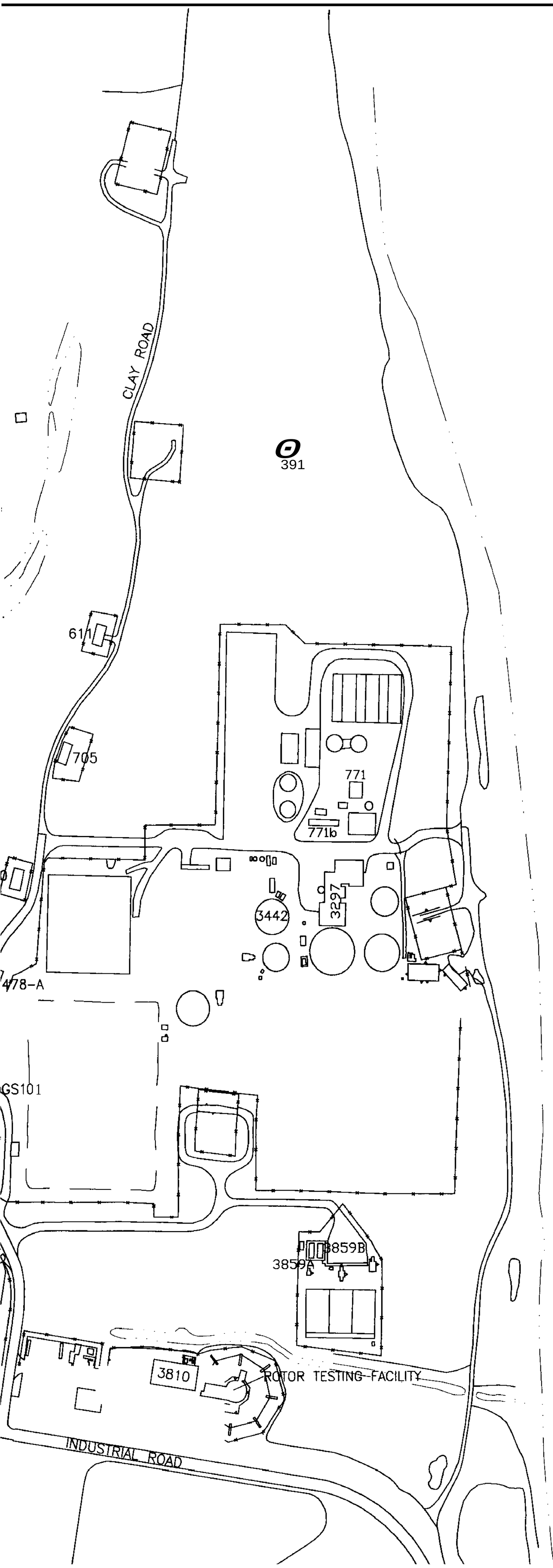
30GS157
30GS159
GOLF
COURSE
3833
30GS29
30GI07


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
3671
740
685
684
12GS01
11GS05
11GM28
11GI06
11GM47
12GS03
12GS02
12GS05
12GS06
11GM48
3628
11GI08
11GI04
11GS03
11GM36
26GS02
11GM49
3627
26GS03
26GS01
26S05
26GS04
2GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
11GI02
11GS07
3445
11GI10
11GS09
11GM51
12GS15
12GS14
11GI15
30GS101
25GS01
3376
786
11GI12
30GS103
467
3493
3496
2654
11GM52
11GI14
11GS13
3644
25GS06
3215
3614
30GS105
3810
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
611
705
610
478-A



PENSACOLA BAY

PHASE II SHALLO ETHYLBENZENE, AND	
SITE	MONITORING WELL ID
UNITS (µg/L)	
11	
	I1-G-GS05
	11-G-GM47
27	
	27-G-GS19
30	
	30-G-GS06

1 = FGGC-FLORIDA GR
2 = FSDWS-FLORIDA S

LE

743

BETX

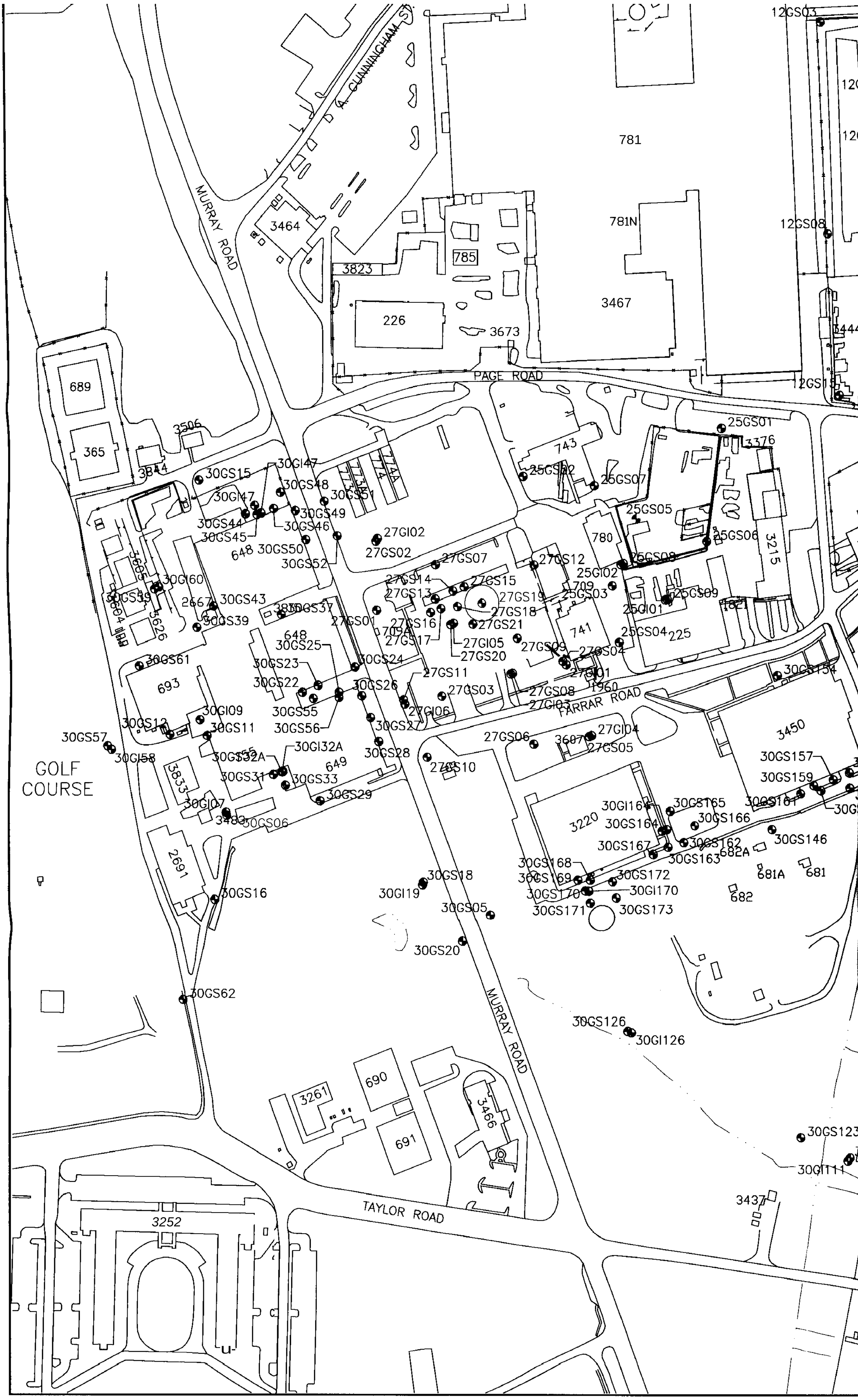
PHASE II SHALLOW GROUNDWATER-BENZENE, ETHYLBENZENE, AND XYLENE (total) EXCEEDANCES				
SITE	MONITORING WELL ID	Benzene	Ethylbenzene	Xylene (total)
UNITS (µg/L)		1 (1)	30 (2)	20 (2)
11				
	11-G-GS05			21
	11-G-GM47	3	70 D	250 D
27				
	27-G-GS19			79 D
30				
	30-G-GS06	2		

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

NSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (PHASE II SHALLOW GROUNDWATER-BETX EXCEEDANCES)
BETX BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENES (total)


A. CUNNINGHAM ST.
MURRAY ROAD
3464
3823
785
226
3673
3467
781
781N
12GS03
12GS08
12GS15
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
25GS02
25GS07
25GS05
25GS06
780
3215
25GS08
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225
30GS15
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648
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FARRAR ROAD
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682A
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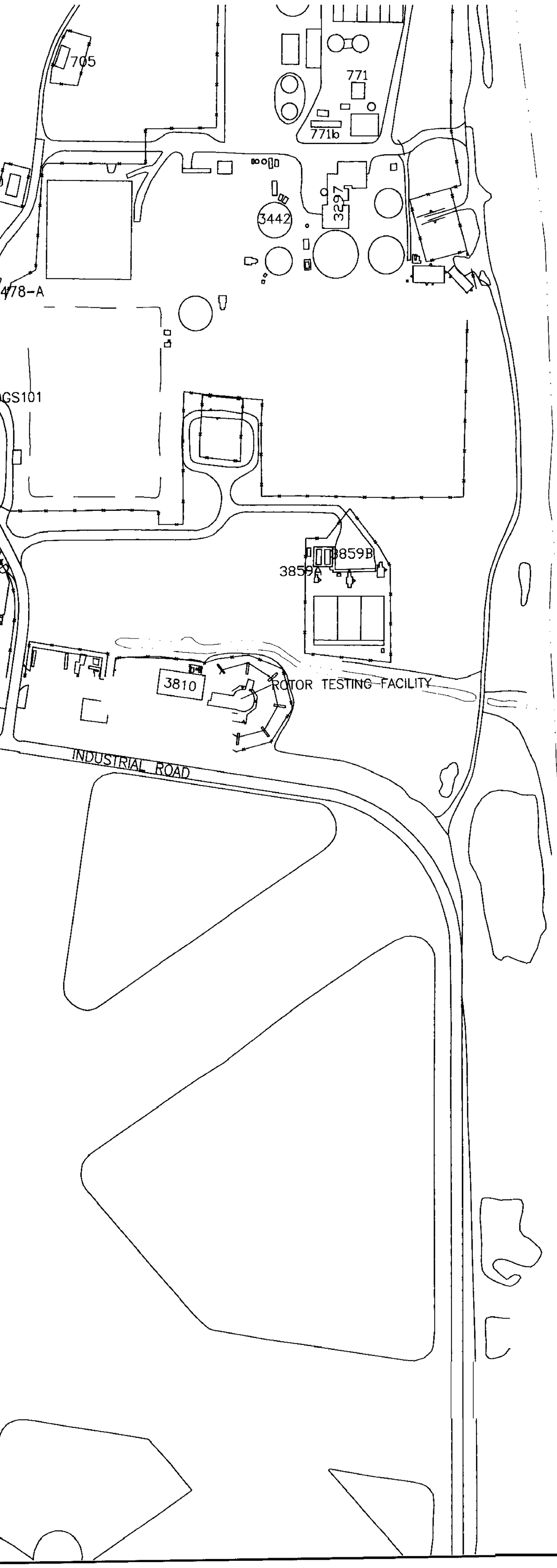
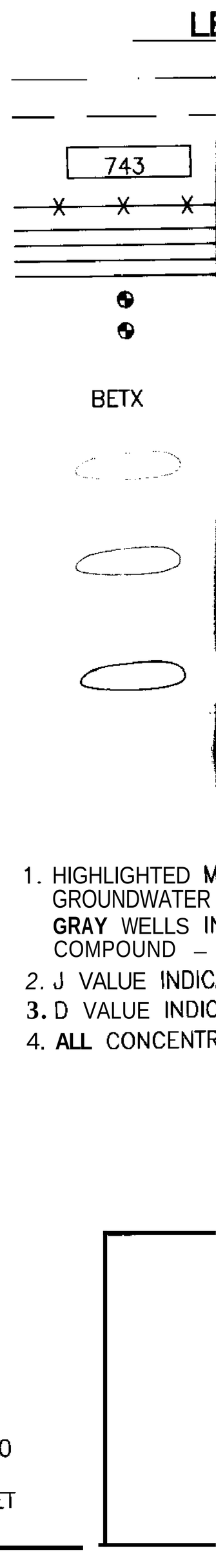
681A
681
682
30GS126
30GI126
MURRAY ROAD
690
3261
691
3466
30GS123
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS03
26GS01
26GS04
26S05
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
1GI02
11GS01
12GS15
12GS14
3445
25GS01
3376
736
11GS11
467
3493
3496
2654
25GS06
3215
25GS09
1821
225
3614
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
126
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
705
610
478-A
11GI10
11GS09
11GM51
30GS101
11GI15
BELLINGER ROAD
11GI12
30GS103
CLAY ROAD
3644
11GM52
11GI14
11GS13
30GS105
3810
INDUSTRIAL ROAD



	ID
UNITS (µg/L)	
11	
	11-G-GS05
	11-G-GM47
27	
	27-G-GS19
30	
	30-G-GS06

1 = FGGC-FLORIDA GR
2 = FSDWS-FLORIDA S



1. HIGHLIGHTED M
GROUNDWATER
GRAY WELLS IN
COMPOUND –
2. J VALUE INDIC
3. D VALUE INDIC
4. **ALL** CONCENTR

SITE	MONITORING WELL ID	Benzene	Ethylbenzene	Xylene (total)
UNITS (µg/L)		1 (1)	30 (2)	20 (2)
11				
	11-G-GS05			21
	11-G-GM47	3	70 D	250 D
27				
	27-G-GS19			79 D
30				
	30-G-GS06	2		

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

ENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (PHASE II SHALLOW GROUNDWATER-BETX EXCEEDANCES)

BETX BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENES (total)

APPROXIMATE AREA OF PHASE II SHALLOW GROUNDWATER BENZENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

APPROXIMATE AREA OF PHASE II SHALLOW GROUNDWATER BENZENE, ETHYLBENZENE, AND XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND FLORIDA SECONDARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE II SHALLOW GROUNDWATER XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA SECONDARY DRINKING WATER STANDARD,

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE II GROUNDWATER VOLATILE ORGANIC COMPOUND - BETX EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF PHASE II GROUNDWATER VOLATILE ORGANIC COMPOUND - BETX EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS ARE IN µg/L.

N

200 0 200
SCALE FEET

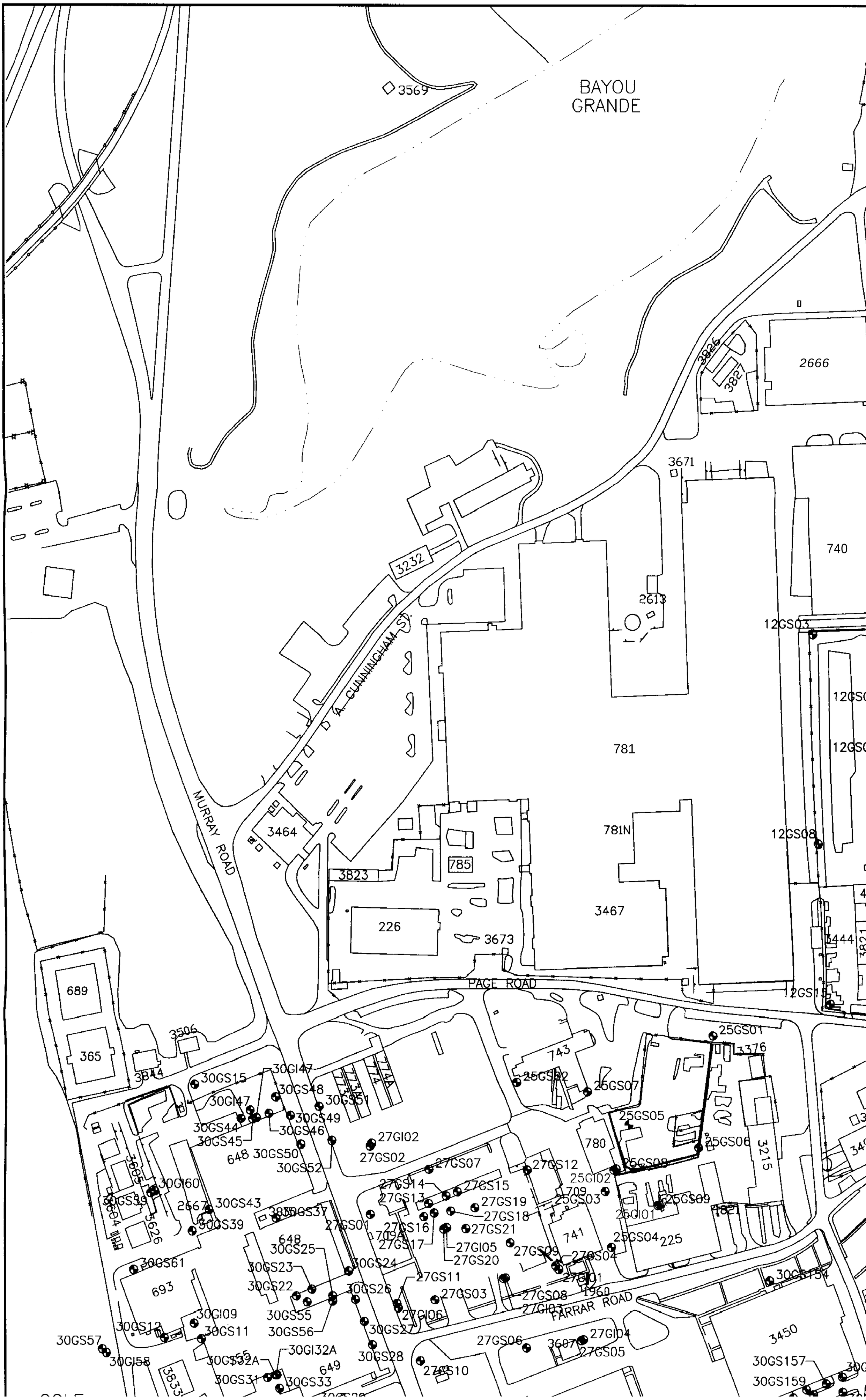
NAS PENSACOLA
OPERABLE UNIT 2

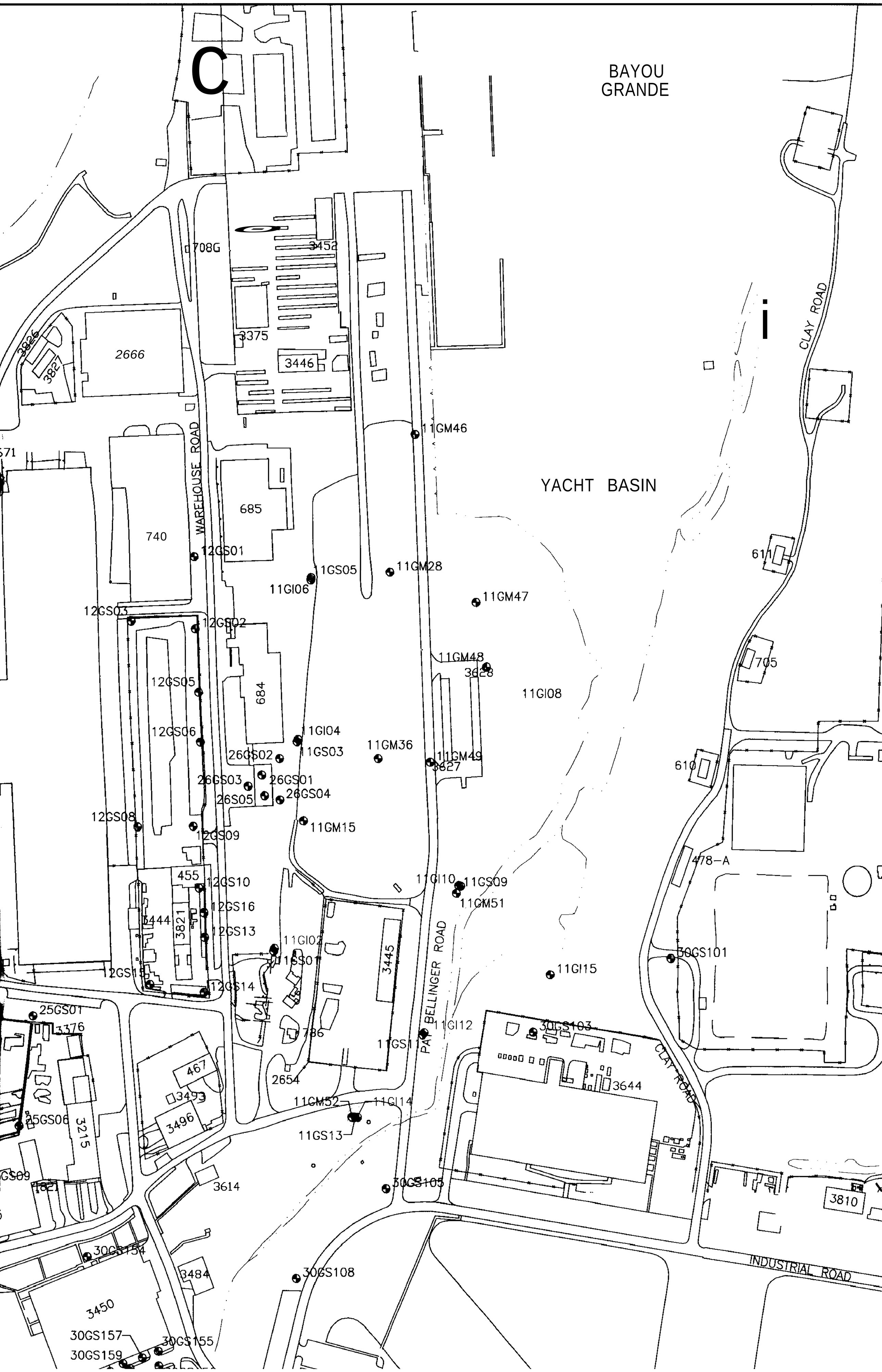
FIGURE 27
PHASE II SHALLOW GROUNDWATER VOLATILE ORGANIC COMPOUNDS (VOCs) - BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENE (total) EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2SWW	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
226
3467
3673
3444
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
30GS15
30GI47
30GS48
30GS51
25GS02
25GS07
30GS44
30GS49
30GS45
30GS46
25GS05
27GI02
780
25GS06
648
30GS50
27GS02
30GS52
27GS07
27GS12
3215
25GI02
30GI60
27GS14
27GS15
709
30GS39
2667
30GS43
27GS13
27GS19
25GS03
25GS09
30GS37
27GS18
25GI01
1821
30GS39
27GS01
27GS16
27GS21
741
25GS04
225
648
709A
27GS17
27GI05
27GS09
27GS04
30GS25
27GS20
30GS61
30GS23
30GS24
27GS11
27GI01
30GS154
693
30GS22
30GS26
27GS03
27GS08
1960
27GI03
FARRAR ROAD
30GI09
30GS55
27GI06
30GS12
30GS11
30GS56
30GS27
3450
30GS57
27GS06
3607
27GI04
30GI58
30GI32A
30GS28
27GS05
30GS157
30GS32A
649
27GS10
30GS159
30GS31
30GS33


C
BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
685
740
12GS01
11GS05
11GI06
11GM28
11GM47
12GS03
12GS02
11GM48
3628
684
12GS05
11GI08
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3627
26GS03
26GS01
26S05
26GS04
12GS08
12GS09
11GM15
455
12GS10
11GI10
11GS09
11GM51
12GS16
3444
3821
12GS13
11GI02
11GS01
3445
12GS15
12GS14
11GI15
30GS101
25GS01
3376
11GI12
30GS103
736
11GS11
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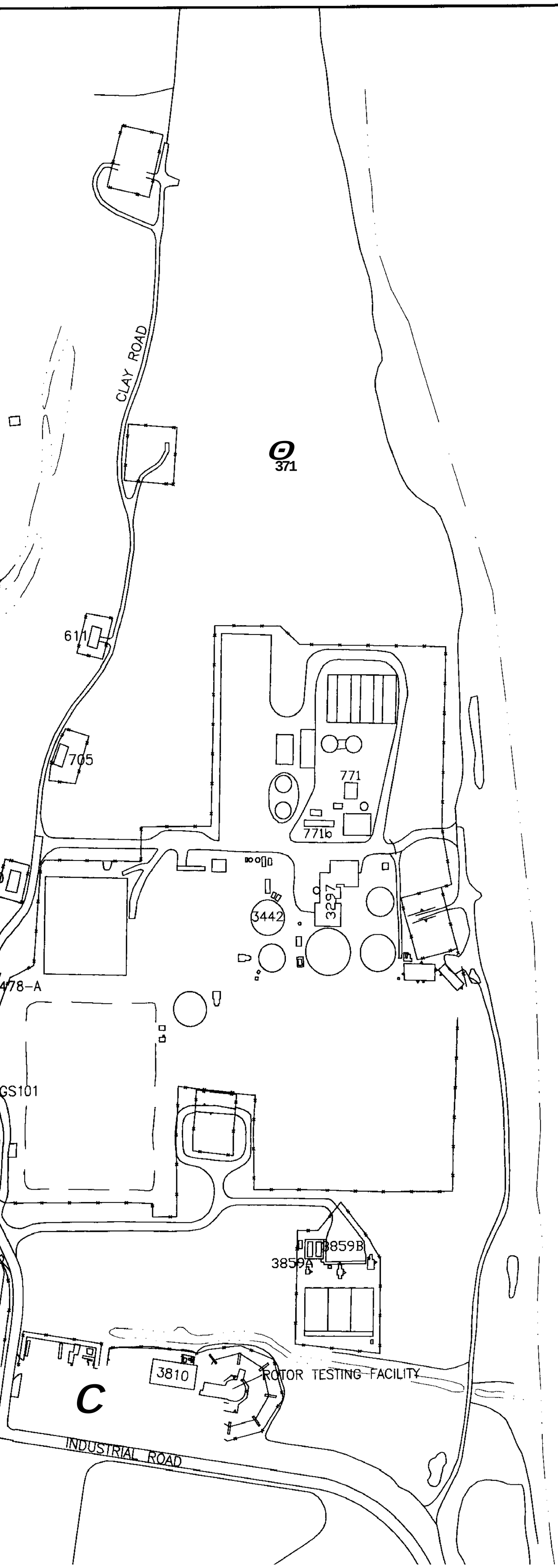
3644
3493
11GM52
11GI14
25GS06
3496
3215
11GS13
30GS105
3614
3810
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
611
705
610
478-A



PENSACOLA BAY

PHASE II INTERMEDIATE ORGANIC COMPOUND CHLORINATED AND A		
SITE	MONITORING WELL ID	cis- D
UNITS (µg/L)		70
11		
	11-G-GI02	
	11-G-GI12	
	11-G-GI14	24
25		
	25-G-GI01	
	25-G-GI02	
30		
	30- G- GI111	

1 = FPDWS-FLORIDA PRIMARY DRINKING

LE

743

e

1,1-DCE
cis-1,2-DCE
PCE
TCE

PHASE II INTERMEDIATE GROUNDWATER-VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES - CHLORINATED AND ASSOCIATED COMPOUNDS

SITE	MONITORING WELL ID	cis-1,2-DCE	TCE	Vinyl Chloride
UNITS (µg/L)		70 (1)	3 (1)	1 (1)
11				
	11-G-GI02		3	
	11-G-GI12			
	11-G-GI14	240 D		33
25				
	25-G-GI01		17	
	25-G-GI02		10	
30				
	30-G-GII II			15

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

ENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

ROADS

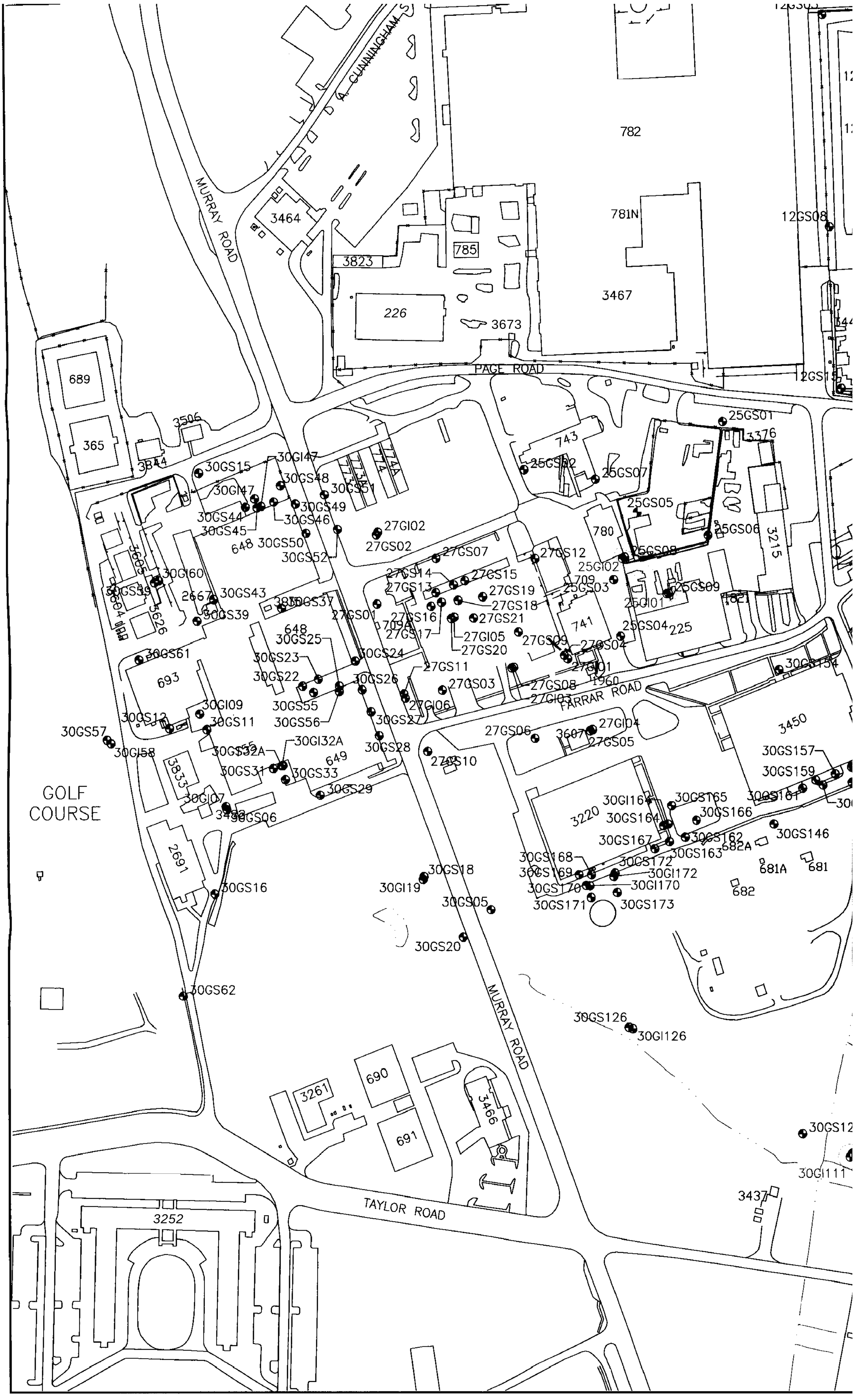
SIDEWALKS

GROUNDWATER MONITORING WELL

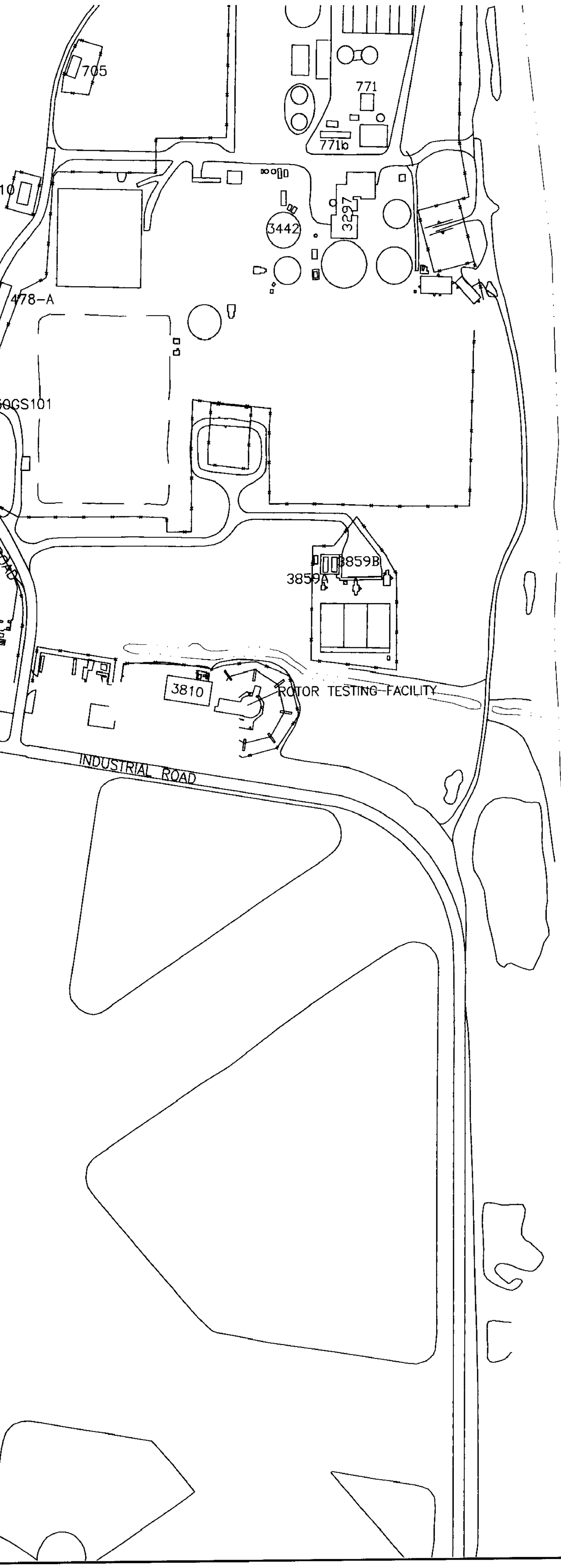
e GROUNDWATER MONITORING WELL (PHASE II INTERMEDIATE GROUNDWATER-VOLATILE ORGANIC COMPOUND EXCEEDANCES)

1,1-DCE	1,1-DICHLOROETHENE
cis-1,2-DCE	CIS-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

APPROXIMATE AREA OF PHASE II INTERMEDIATE GROUNDWATER CHLORINATED


CUNNINGHAM
MURRAY ROAD
3464
3823
785
782
781N
12GS08
226
3467
3673
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
25GS01
3376
743
25GS02
25GS07
25GS05
780
25GS06
25GS08
3215
25GI02
709
25GS03
25GS09
25GI01
741
25GS04
225
1821
30GI60
30GS43
30GS39
30GS37
27GS01
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
30GS61
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS08
27GI03
1960
FARRAR ROAD
30GS154
693
30GI09
30GS55
30GS56
27GI06
30GS12
30GS11
30GS27
27GS06
3607
27GI04
27GS05
3450
30GS57
30GI58
30GI32A
30GS28
649
30GS157
30GS159
3833
30GS31
30GS33
30GS29
30GI07
30GS06
GOLF
COURSE
30GI164
30GS165
30GS161
3220
30GS164
30GS166
30GS167
30GS162
30GS146
682A
30GS168
30GS163
30GS172
30GS169
30GI172
681A
681
30GS170
30GI170
682
30GS171
30GS173
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
690
3261
691
3466
30GS12
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
12GS05
684
12GS06
11GI04
1GS03
26GS02
26GS03
26GS01
26GS04
26S05
12GS08
12GS09
11GM15
455
12GS10
12GS16
12GS13
3444
3821
11GI02
11GS01
12GS15
12GS14
3445
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
705
610
478-A
11GI10
11GS09
11GM51
BELLINGER ROAD
30GS101
11GI15
25GS01
3376
736
11GI12
30GS103
CLAY ROAD
467
3493
3496
2654
3644
11GM52
11GI14
11GS13
25GS06
3215
25GS09
1621
3614
30GS105
225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
682A
30GS163
681A
681
682
30GI113
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557



25		
	25-G-GI01	
	25-G-GI02	
30		
	30-G-GI111	

1 = **FPDWS-FLORIDA** PRIMARY **DRINK**

PENSACOLA BAY

743

1,1-DCE
cis-1,2-DCE
PCE
TCE

I. HIGHLIGHTED MONITORI
ONE OR MORE SELECT
GROUNDWATER EXCEED
GRAY WELLS INDICATE
COMPOUND GROUNDWA
2. J VALUE INDICATES CO
3. D VALUE INDICATES CO
4, **ALL** CONCENTRATIONS

200 0 200
SCALE FEET

		240 D		33
25				
	25-G-GI01		17	
	25-G-GI02		10	
30				
	30-G-GI111			15

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (PHASE II INTERMEDIATE GROUNDWATER-VOLATILE ORGANIC COMPOUND EXCEEDANCES)

1,1-DCE	1,1-DICHLOROETHENE
cis-1,2-DCE	CIS-1,2-DICHLOROETHENE
PCE	TETRACHLOROETHENE
TCE	TRICHLOROETHENE

APPROXIMATE AREA OF PHASE II INTERMEDIATE GROUNDWATER CHLORINATED AND ASSOCIATED VOLATILE ORGANIC COMPOUND CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION AND THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SELECTED VOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES
   GRAY WELLS INDICATE THE ABSENCE OF ANY SELECTED VOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

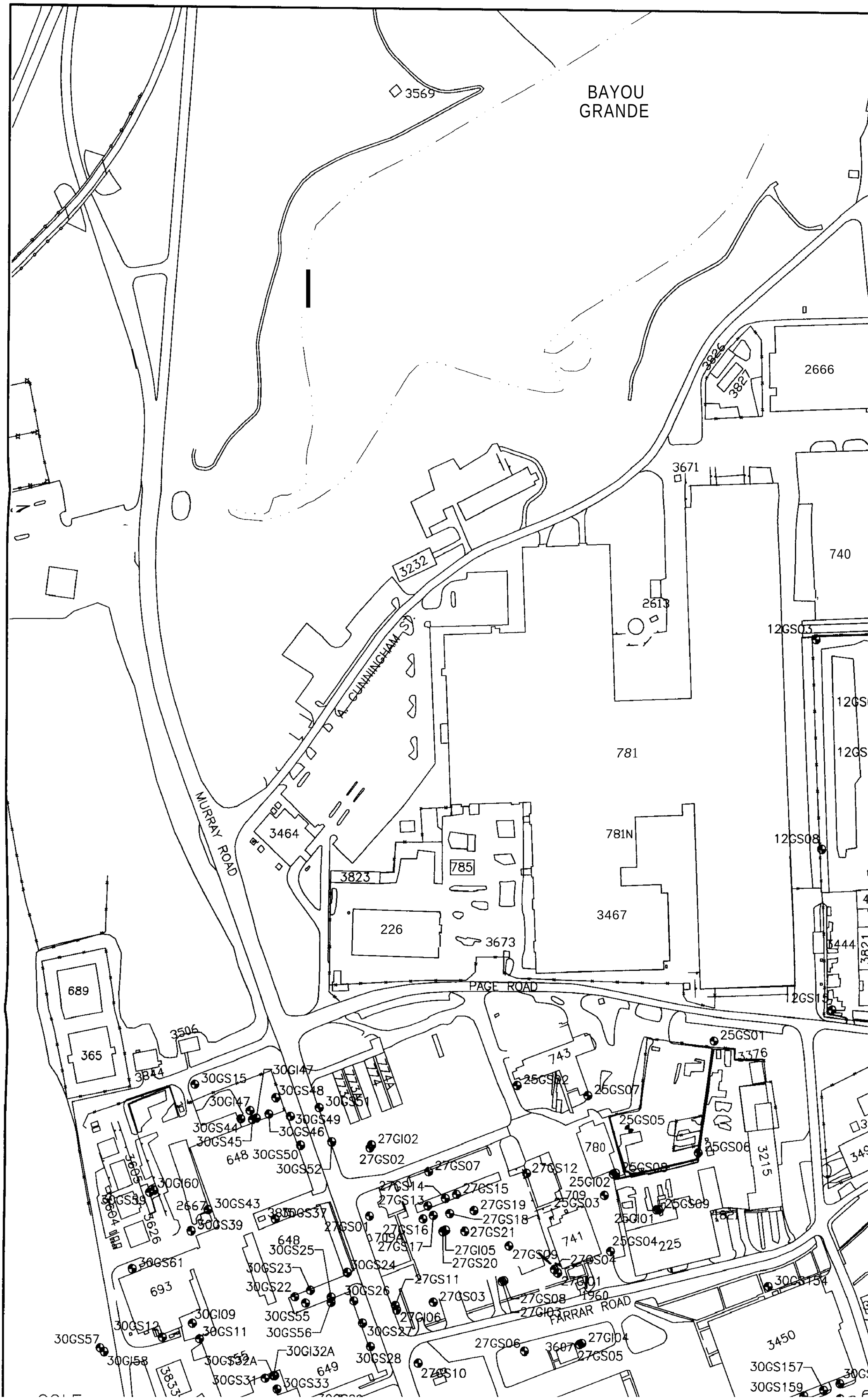
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 28
PHASE II INTERMEDIATE GROUNDWATER
VOLATILE ORGANIC COMPOUND (VOC) EXCEEDANCES-
CHLORINATED AND ASSOCIATED COMPOUNDS

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2IWC	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
3232
2613
12GS03
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
12GS15
689
365
3506
3344
25GS01
3376
743
30GS15
30GI47
30GS48
30GS51
25GS02
25GS07
30GS44
30GS45
30GS49
30GS46
25GS05
27GI02
27GS02
780
25GS06
648
30GS50
30GS52
27GS07
27GS12
3215
30GI60
27GS14
27GS15
25GI02
30GS59
2667
30GS43
27GS13
27GS19
709
25GS03
25GS09
30GS37
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
741
709A
27GS17
25GS04
225
648
30GS25
27GI05
27GS20
27GS09
27GS04
30GS61
30GS23
30GS24
27GS11
27GI01
30GS154
693
30GS22
30GS26
27GS03
27GS08
1960
27GI03
FARRAR ROAD
30GI09
30GS55
27GI06
30GS12
30GS11
30GS56
30GS27
30GS57
27GS06
27GI04
3450
30GI58
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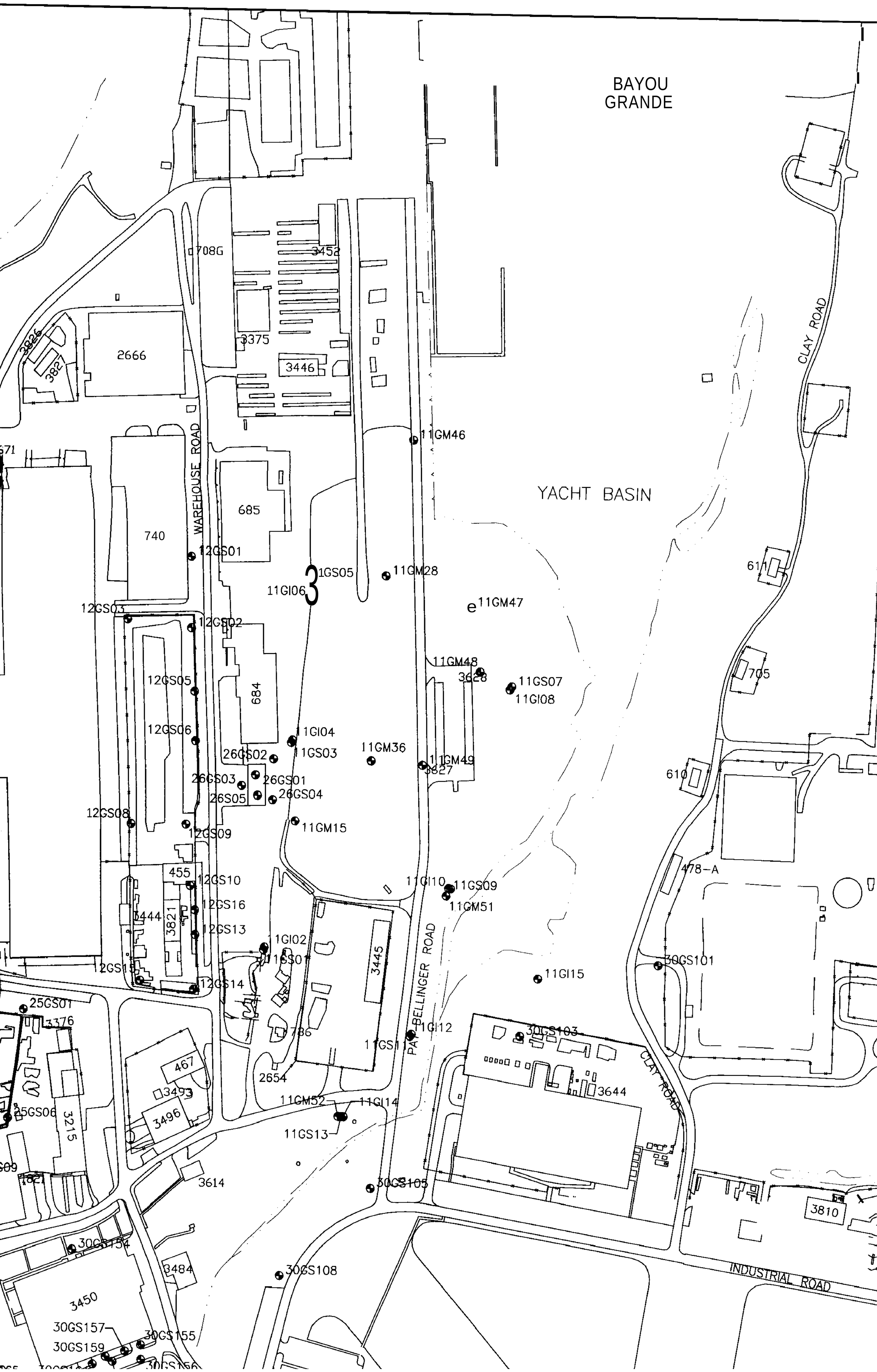
30GI32A
30GS28
27GS05
30GS157
649
27GS10
30GS31
30GS33
30GS159


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
685
740
12GS01
11GS05
11GM28
11GI06
11GM47
12GS03
12GS02
11GM48
3628
11GS07
11GI08
12GS05
684
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3827
26GS03
26GS01
26S05
26GS04
12GS08
12GS09
11GM15
611
705
610
455
12GS10
12GS16
3444
3821
12GS13
11GI10
11GS09
11GM51
478-A
11GI02
11GS01
3445
12GS15
12GS14
30GS101
11GI15
25GS01
3376
736
11GI12
30GS103
467
3493
2654
3644
25GS06
3215
3496
11GM52
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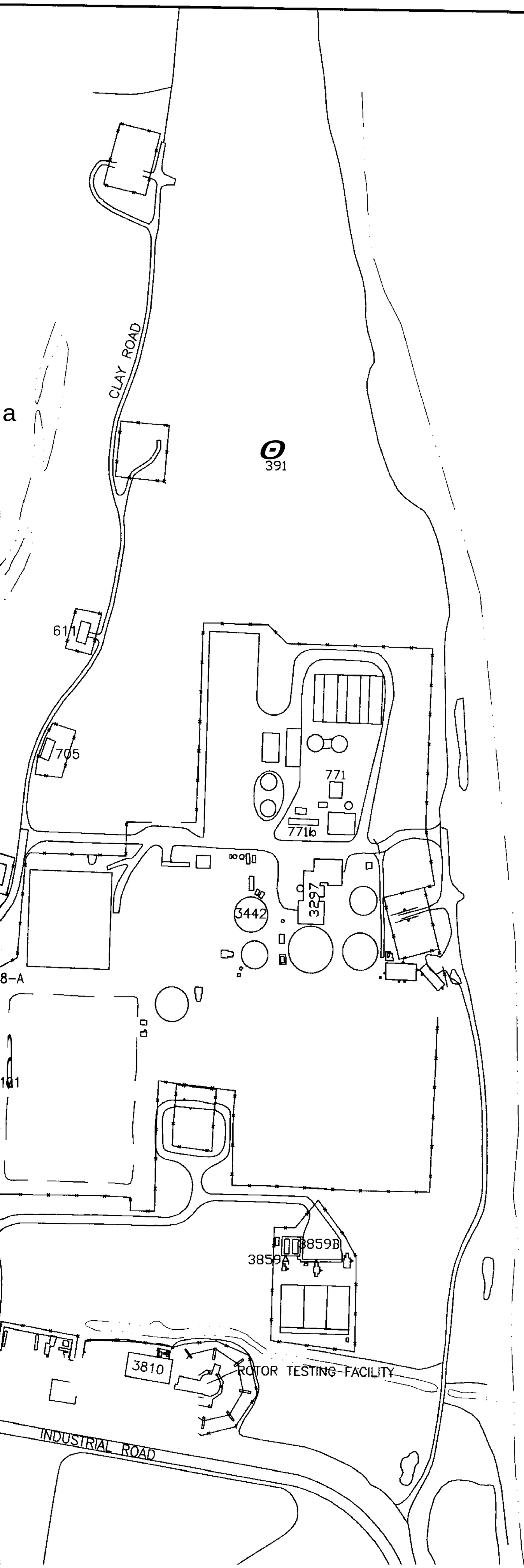
3450
30GS157
30GS155
30GS159



PHASE II INTERMEDIATE GROUNDWATER BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENE (total) EXCEEDANCES		
SITE	MONITORING WELL ID	Benzene
UNITS (µg/L)		1 (1)
30		
	30-G-GI111	7

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CON

PENSACOLA BAY

LEGEND

SURFACE

CLOSED

743 BUILDING

FENCE L

ROADS

SIDEWALK

GROUNDW

GROUNDW

PHASE II INTERMEDIATE GROUNDWATER BENZENE, ETHYLBENZENE, TOLUENE, AND XYLENE (total) EXCEEDANCES		
SITE	MONITORING WELL ID	Benzene
UNITS (μg/L)		1 (1)
30		
	30-G-GI111	7

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

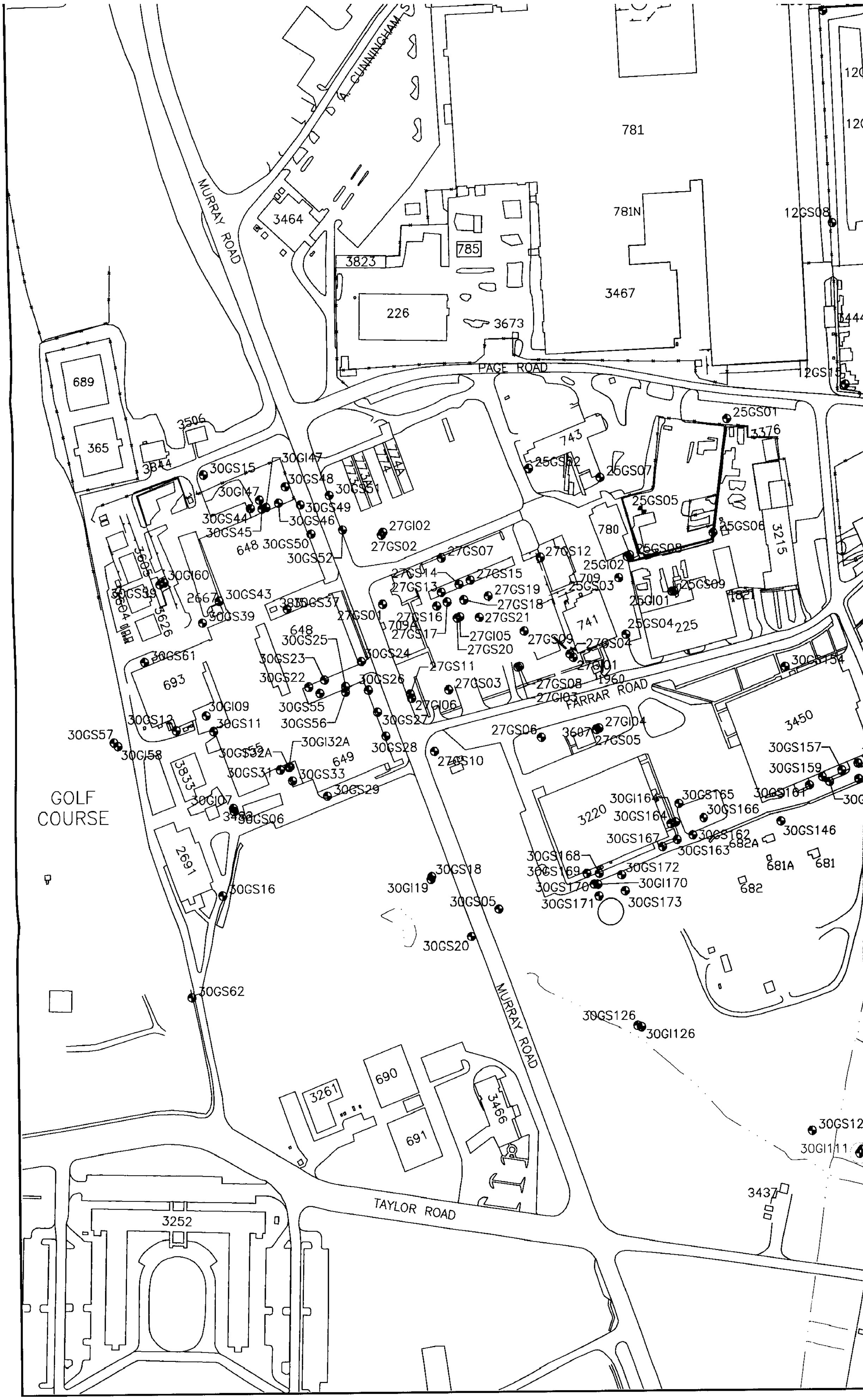
FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

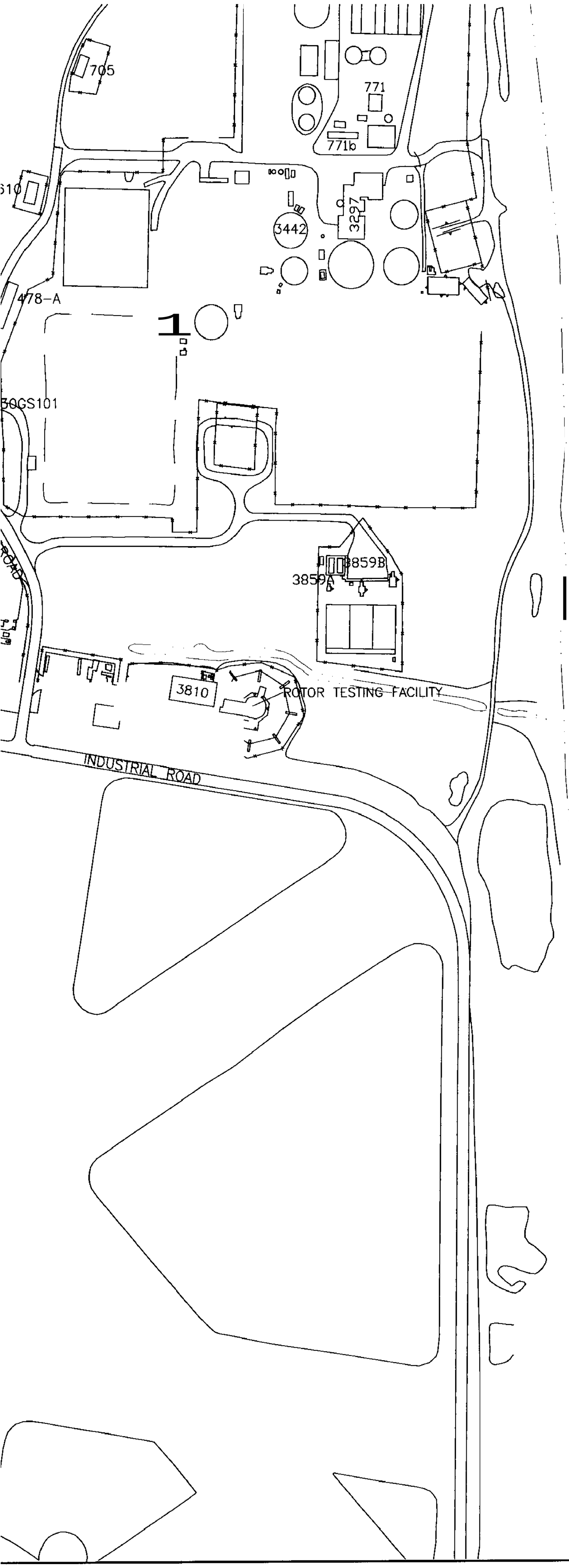
GROUNDWATER MONITORING WELL (PHASE II INTERMEDIATE GROUNDWATER


MURRAY ROAD
A. CUNNINGHAM
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3464
3823
3467
226
3673
689
365
3506
3844
743
780
741
709
709A
648
649
693
2691
690
691
3261
3466
3252
3450
3215
3220
3437
682
682A
681
681A
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS45
30GS46
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
27GS14
27GS13
27GS15
27GS19
27GS18
27GS21
27GS16
27GS17
27GS01
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
27GI06
27GS06
27GI04
27GS05
27GS10
30GS60
30GS39
30GS43
30GS37
30GS61
30GS25
30GS23
30GS22
30GS24
30GS26
30GS55
30GS56
30GS27
30GS28
30GS12
30GI09
30GS11
30GS57
30GI58
30GI32A
30GS32A
30GS31
30GS33
30GS29
30GI07
30GS06
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
30GS12
30GI111
30GS154
30GS157
30GS159
30GS161
30GI164
30GS165
30GS166
30GS164
30GS167
30GS162
30GS163
30GS146
30GS168
30GS169
30GS172
30GS170
30GI170
30GS171
30GS173
25GS01
3376
25GS02
25GS07
25GS05
25GS06
25GS08
25GI02
25GS03
25GS09
25GI01
25GS04
225
12GS08
12GS15
3444

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS03
26GS01
26GS04
26S05
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
11GI02
11GS01
12GS15
12GS14
3445
25GS01
3376
786
11GS11
467
2654
3493
3496
11GM52
11GI14
25GS06
3215
11GS13
25GS09
1821
225
3614
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
682A
30GS163
681A
681
682
30GI113
30GS113
26
INDUSTRIAL ROAD
3189
30GS123
30GI111
30GS111
3437
30GS118
3557
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
705
610
478-A
11GI10
11GS09
11GM51
BELLINGER ROAD
30GS101
11GI15
11GI12
30GS103
CLAY ROAD
3644
30GS105
3810
INDUSTRIAL ROAD

SITE	MONITORING WELL ID	Benzene
UNITS (µg/L)		1 (1)
30		
	30-G-GIII I	7

1 = FGGC–FLORIDA GROUNDWATER GUIDANC



PENSACOLA BAY

LEGEN

743

SU
CL
BU
FE
RO
SIC
GR
GR
BE

AP
ET
TH
SE

1. HIGHLIGHTED MONITORIN
ON€ OR MORE BENZEN
GROUNDWATER EXCEEDA
GRAY WELLS INDICATE
TOLUENE, AND XYLENE

2. J VALUE INDICATES CO
3. D VALUE INDICATES CO
4. ALL CONCENTRATIONS

200 0 200
SCALE FEET

SITE	MONITORING WELL ID	Benzene
UNITS (µg/L)		1 (1)
30		
	30-G-GI111	7

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (PHASE II INTERMEDIATE GROUNDWATER BENZENE, ETHYLBENZENE, TOLUENE, **AND** XYLENE (total) EXCEEDANCES).

APPROXIMATE AREA OF PHASE II INTERMEDIATE GROUNDWATER BENZENE, ETHYLBENZENE, TOLUENE, **AND** XYLENE (total) CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION **AND** FLORIDA SECONDARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE BENZENE, ETHYLBENZENE, TOLUENE, **AND** XYLENE (total) GROUNDWATER EXCEEDANCES,
   GRAY WELLS INDICATE THE ABSENCE OF BENZENE, ETHYLBENZENE, TOLUENE, **AND** XYLENE (total) GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS ARE IN µg/L.

N

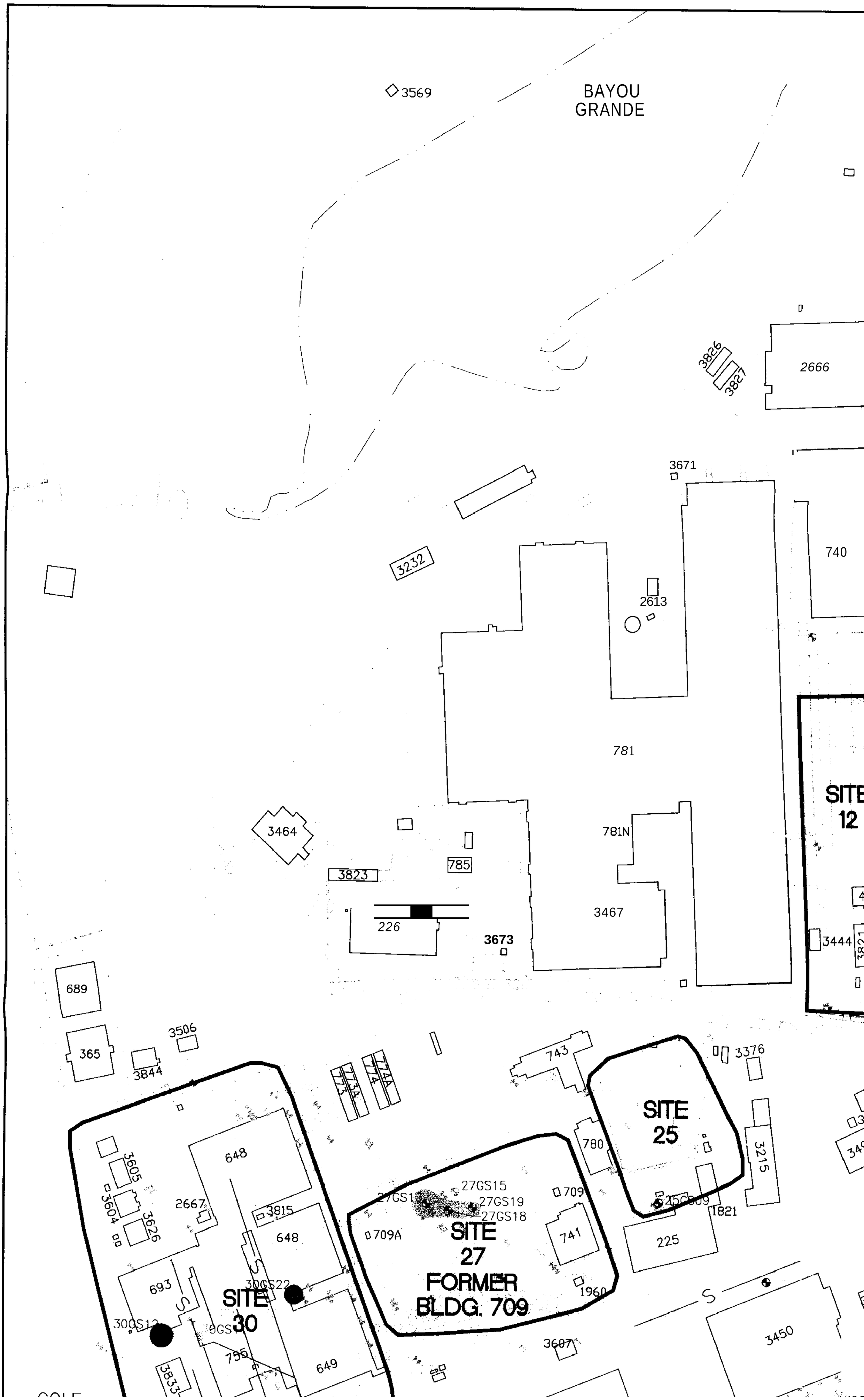
200 0 200
SCALE FEET

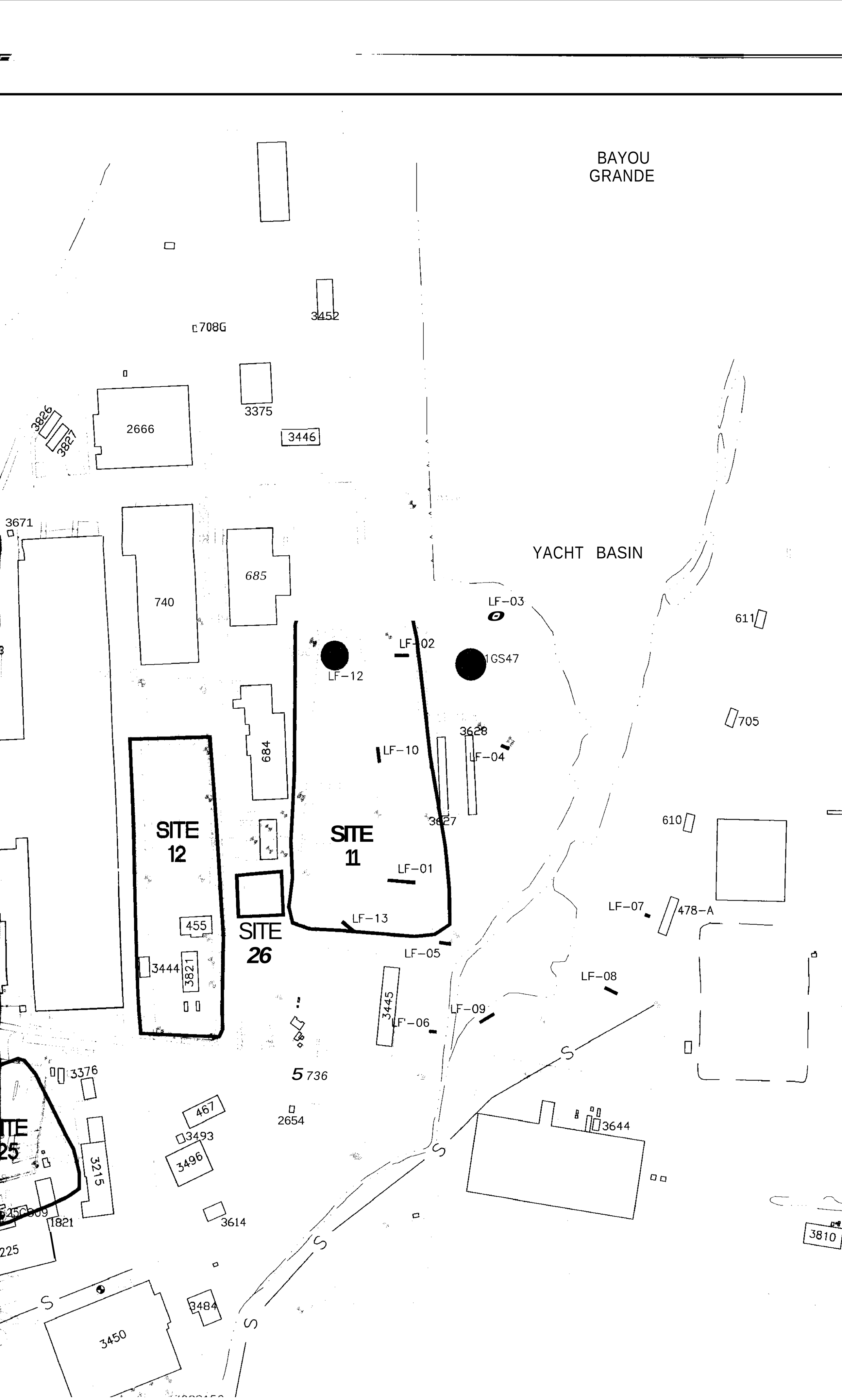
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 29
PHASE It INTERMEDIATE GROUNDWATER
BENZENE, ETHYLBENZENE, TOLUENE, **AND** XYLENE (total)
EXCEEDANCES

Dr by: K. BRONSON/AH	Proj. Code: **0059-00037**	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: **07/09/97**	DWG Name: 590U2IWW	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
3826
3827
2666
3671
740
3232
2613
781
SITE
12
781N
3464
785
3823
3467
226
3673
3444
689
365
3506
3844
743
3376
SITE
25
780
3215
648
3605
3604
3626
2667
3815
27GS15
27GS19
27GS18
709
709A
741
1821
225
693
30GS22
SITE
30
30GS12
755
649
1960
3607
3450
3833


BAYOU
GRANDE
YACHT BASIN
3452
708G
3826
3827
2666
3375
3446
3671
740
685
LF-03
611
LF-02
1GS47
LF-12
705
684
3628
LF-10
LF-04
SITE
12
SITE
11
3627
610
LF-01
LF-07
478-A
455
SITE
26
LF-13
LF-05
3444
3821
LF-08
3445
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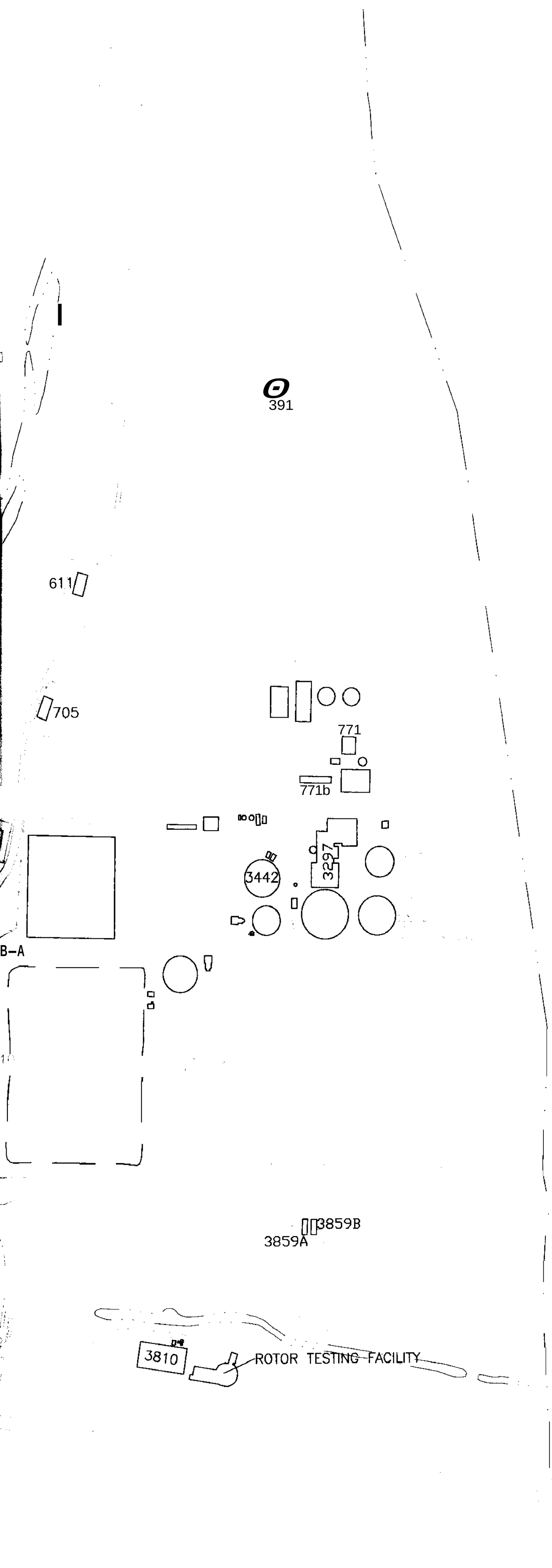
3614
1821
3810
3450
3484



PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC C

Site	Monitoring Well ID	4-Methylphenol (p-Cresol)	BEHP	Carbazole	Na
UNITS (µg/L)		35 (1)	4.8 (3)	7.5 (1)	
11					
	LF12				
	11GS47				
25					
	25GS09				
27					
	27GS13	100			
	27GS15				
	27GS18				
	27GS19				
30					
	30GS06			14 J	
	30GS11				
	30GS12		18000 3		
	30GS16				
	30GS22				
	30GS156				
	30GS160				
	30GS170				

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP-RISK-BASED CONCENTRATION FOR TAP WATER
BEMP = bis(2-Ethylhexyl)phthalate
4 = USEPA - MAXIMUM CONTAMINANT LEVEL

LEGEND,

SITE 27 — SITE LOCA
S — SITE 36
SURFACE
CLOSED L
743 — BUILDING
FENCE LIN
ROADS
SIDEWALK:
GROUNDWA
GROUNDWA SEMIVOLAT
TRENCH
TRENCH (E COMPOUND
APPROXIM NAPHTHAL FLORIDA DRINKING
APPROXIM NAPHTHA

PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

Site	Monitoring Well ID	4-methyl phenol (p–Cresol)	BEHP	Carbazole	Naphthalene	Pentachlorophenol	Phenol
UNITS (µg/L)		35 (1)	4.8 (3)	7.5 (1)	20 (1)	1.0 (2)(4)	10 (1)
11							
	LF12				69 J		
	11GS47				47		
25							
	25GS09						10
27							
	27GS13	100			10	2 J	
	27GS15					1 J	
	27GS18				34		
	27GS19				110		
30							
	30GS06			14 J	76		
	30GS11						10 J
	30GS12		18000 J		29000 J		
	30GS16						38
	30GS22				23		
	30GS156						54
	30GS160						14
	30GS170						47

1 = FGGC–FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS–FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP–RISK–BASED CONCENTRATION FOR TAP WATER
BEHP = bis(2–Ethylhexyl)phthalate
4 = USEPA – MAXIMUM CONTAMINANT LEVEL

LEGEND

SITE 27 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

CLOSED LAGOON

743 — BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)

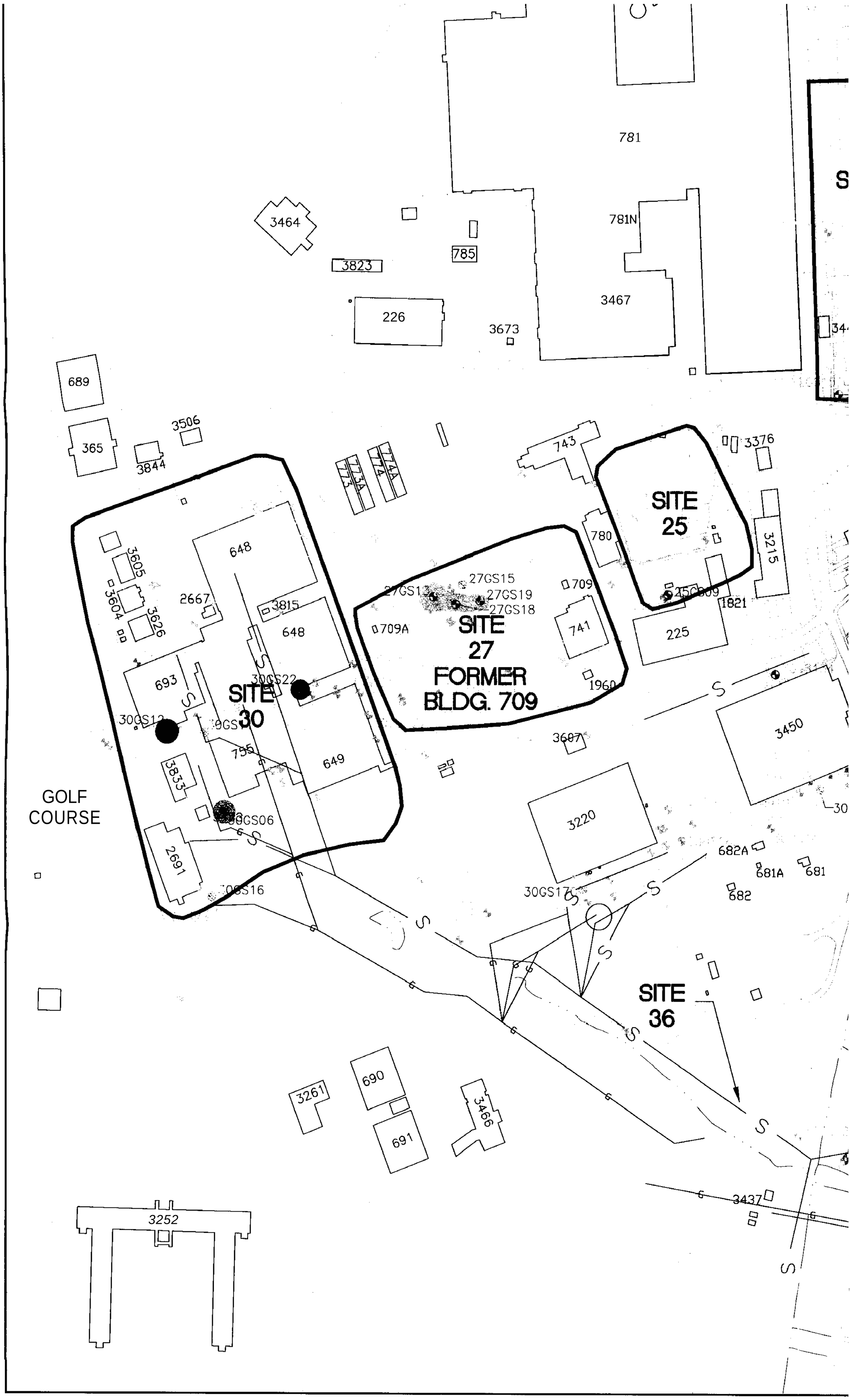
ACOLA BAY

TRENCH

TRENCH (EXHIBITING PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER 4–METHYLPHENOL, NAPHTHALENE, AND PENTACHLOROPHENOL CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND/OR FLORIDA PRIMARY DRINKING WATER STANDARD AND/OR USEPA MAXIMUM CONTAMINANT LEVEL.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER CARBAZOLE AND NAPHTHALENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER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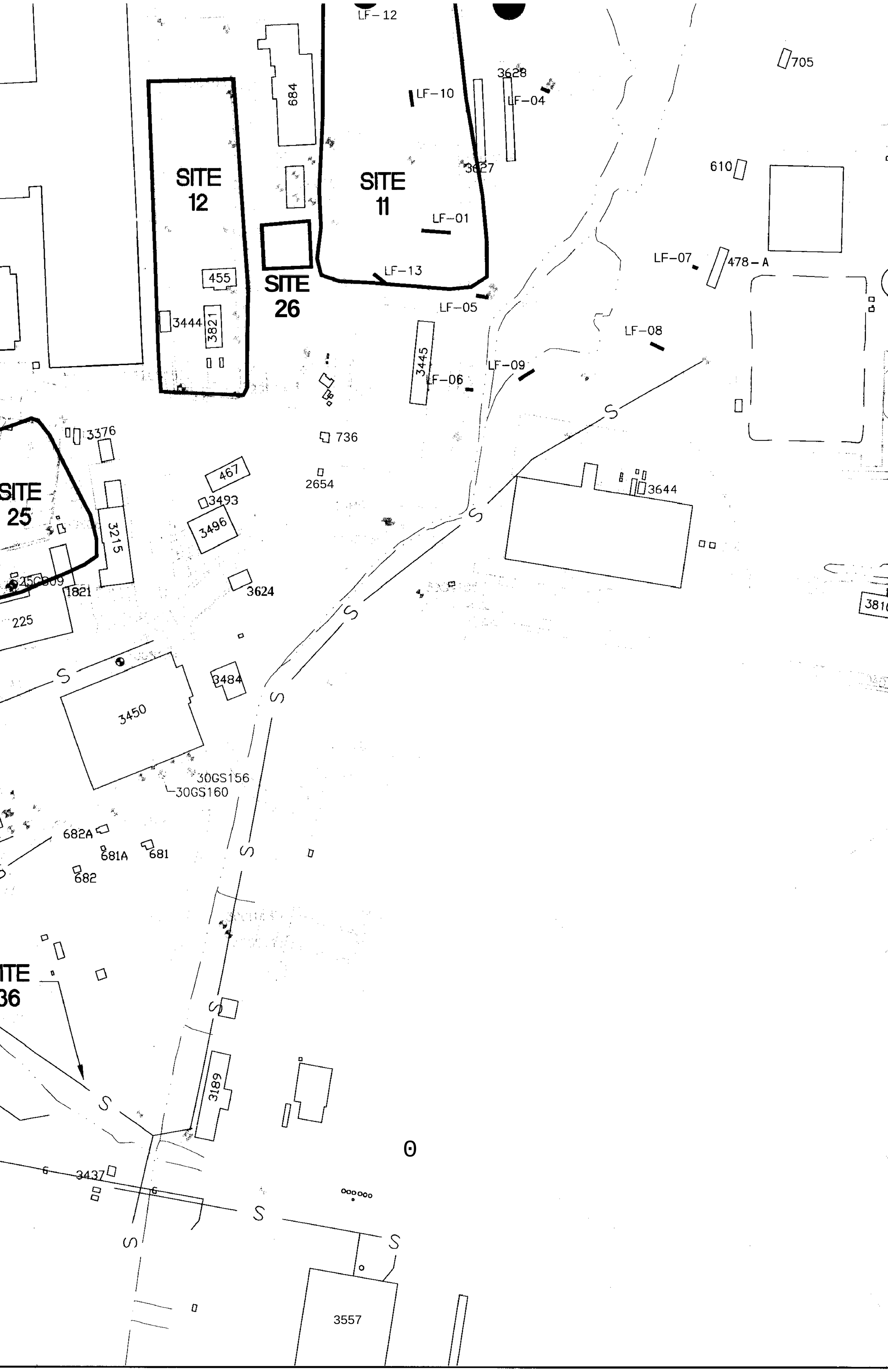
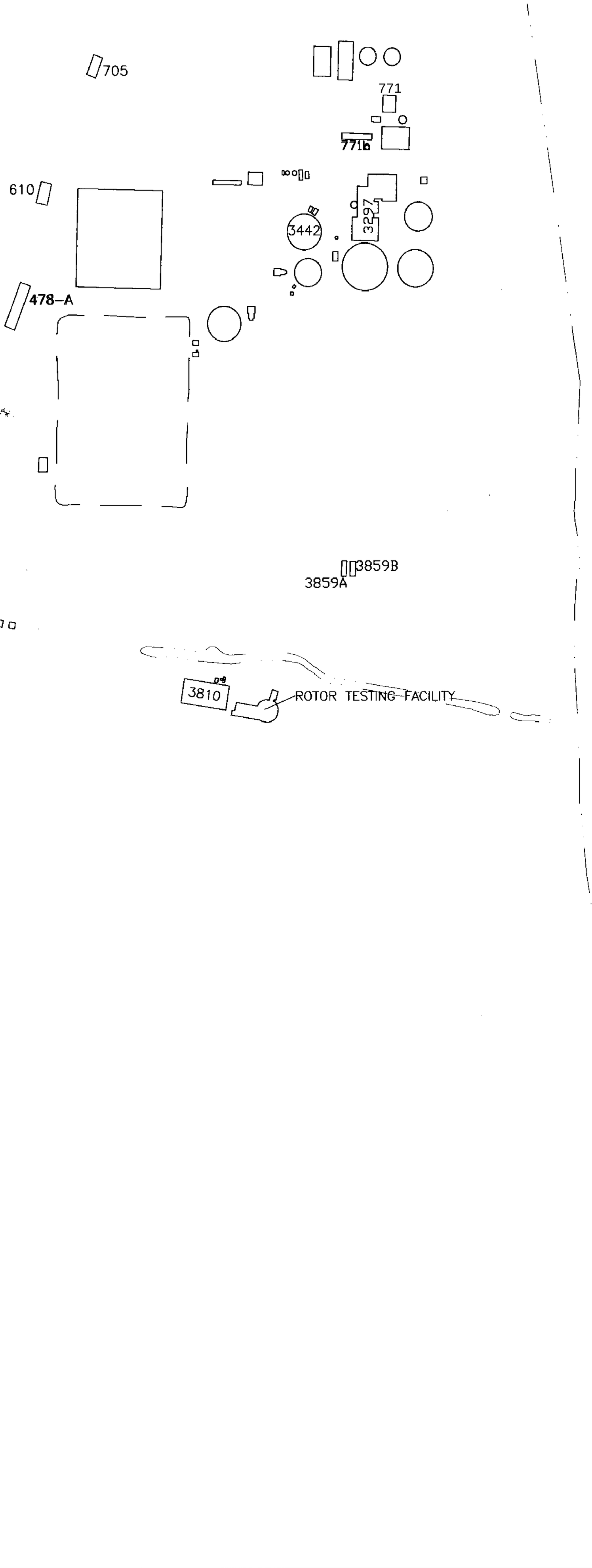
781N
3464
3823
785
226
3467
3673
689
365
3506
3844
743
3376
773
773A
774
774A
SITE 25
780
3215
648
3605
3604
3626
2667
3815
27GS15
27GS13
27GS19
27GS18
709
709A
SITE 27 FORMER BLDG. 709
741
1821
225
693
30GS22
SITE 30
30GS12
755
649
1960
3607
3450
3833
30GS06
2691
3220
682A
681A
681
682
30GS16
30GS17
GOLF COURSE
SITE 36
3261
690
691
3466
3437
3252


LF-12
684
705
3628
LF-10
LF-04
SITE 12
SITE 11
3627
610
LF-01
455
SITE 26
LF-13
LF-07
478-A
LF-05
3444
3821
LF-08
3445
LF-09
LF-06
3376
736
467
2654
3493
3644
SITE 25
3496
3215
25GS09
1821
3624
225
3484
3450
30GS156
30GS160
682A
681A
681
682
SITE 36
3189
3437
3557



	30GS11			
	30GS12		18000 J	
	30GS16			
	30GS22			
	30GS156			
	30GS160			
	30GS170			

1 = FGGC–FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS–FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP–RISK–BASED CONCENTRATION FOR TAP WATER
BEHP = bis(2–Ethylhexyl)phthalate
4 = USEPA – MAXIMUM CONTAMINANT LEVEL

LEGEN

SITE 27 — SIT

S — SIT

SUF

CLO

743 — BUI

FEN

ROA

SID

GRO

GRO

SEM

TRE

TRE

COM

APP

NA

FLO

DR

APP

NA

GU

AP

CO

CO

APP

CO

AND

APP

EX

APP

CON

TAP

1. H
O
E
G
C
2. J
3. A

N

200 0 200
SCALE FEET

	30GS11						10 J
	30GS12		18000 J		29000 J		
	30GS16						38
	30GS22				23		
	30GS156						54
	30GS160						14
	30GS170						47

1 = FGGC–FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS–FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP–RISK–BASED CONCENTRATION FOR TAP WATER
BEHP = bis(2–Ethylhexyl)phthalate
4 = USEPA – MAXIMUM CONTAMINANT LEVEL

LEGEND

SITE 27 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

CLOSED LAGOON

743 — BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)

SACOLA BAY

TRENCH

TRENCH (EXHIBITING PHASE I SHALLOW GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER 4–METHYLPHENOL, NAPHTHALENE, AND PENTACHLOROPHENOL CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND/OR FLORIDA PRIMARY DRINKING WATER STANDARD AND/OR USEPA MAXIMUM CONTAMINANT LEVEL.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER CARBAZOLE AND NAPHTHALENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER NAPHTHALENE CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER PENTACHLOROPHENOL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD AND/OR USEPA MAXIMUM CONTAMINANT LEVEL.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER PHENOL CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BEHP AND NAPHTHALENE CONCENTRATIONS EXCEEDING THE USEPA RISK–BASED CONCENTRATION FOR TAP WATER AND/OR THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF ANY SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

200 0 200
SCALE FEET

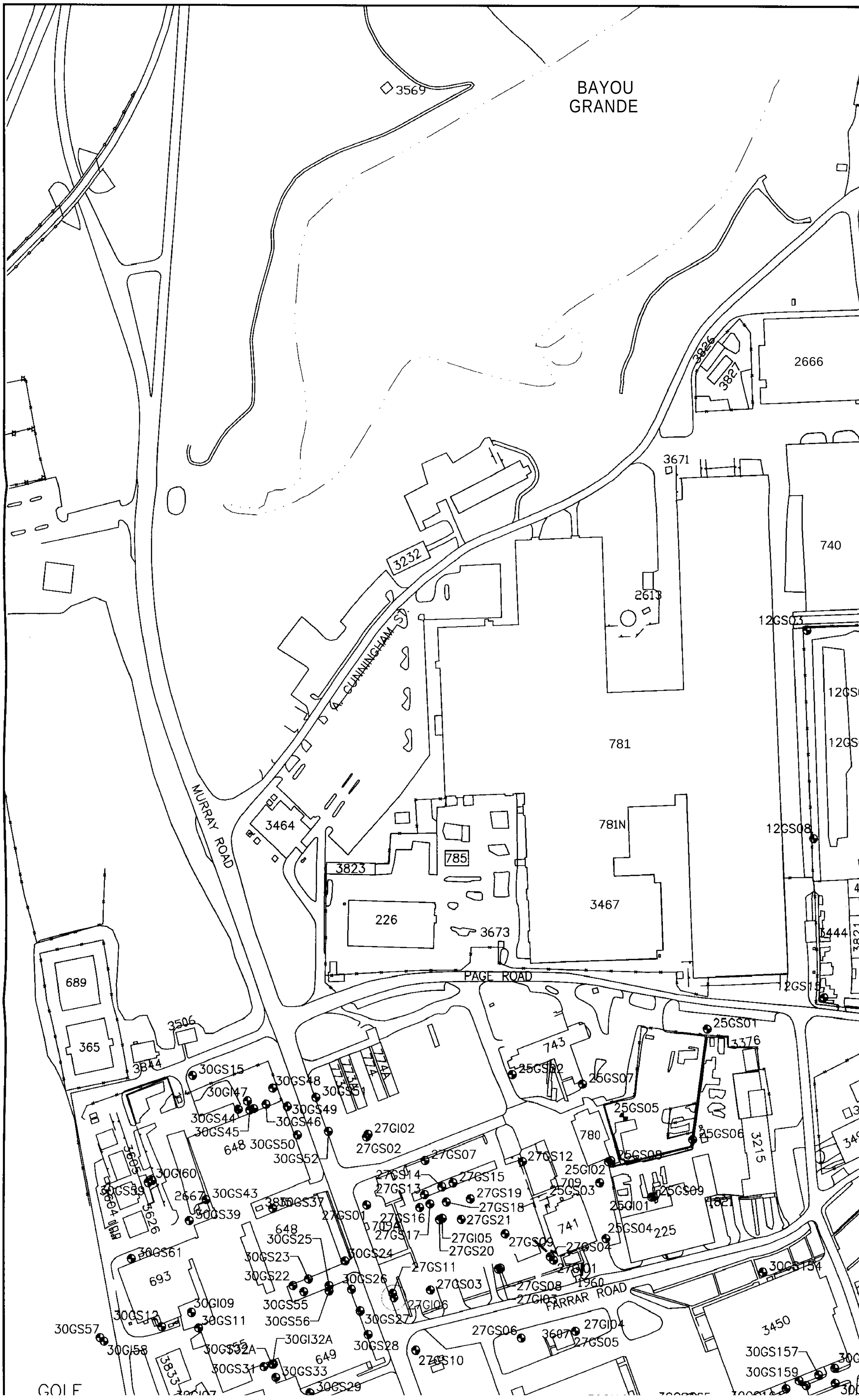
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 30
PHASE I SHALLOW GROUNDWATER
SEMIVOLATILE COMPOUND EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Names 590U2SMW	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU
GRANDE
3569
3826
3827
2666
3671
740
2613
12GS03
781
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
30GS15
30GS48
30GI47
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
27GS02
648
30GS50
30GS52
27GS07
27GS12
780
25GS05
25GS06
25GS08
3215
30GI60
27GS14
27GS15
27GS13
27GS19
27GS18
25GI02
709
25GS03
25GS09
25GI01
1821
30GS43
30GS37
27GS01
27GS16
27GS21
741
25GS04
225
30GS39
648
30GS25
709A
27GS17
27GI05
27GS20
27GS09
27GS04
30GS61
30GS23
30GS24
27GS11
27GI01
30GS154
693
30GS22
30GS26
27GS03
27GS08
1960
30GI09
30GS55
27GI06
27GI03
FARRAR ROAD
30GS12
30GS11
30GS56
30GS27
3450
30GS57
27GS06
3607
27GI04
30GI58
30GI32A
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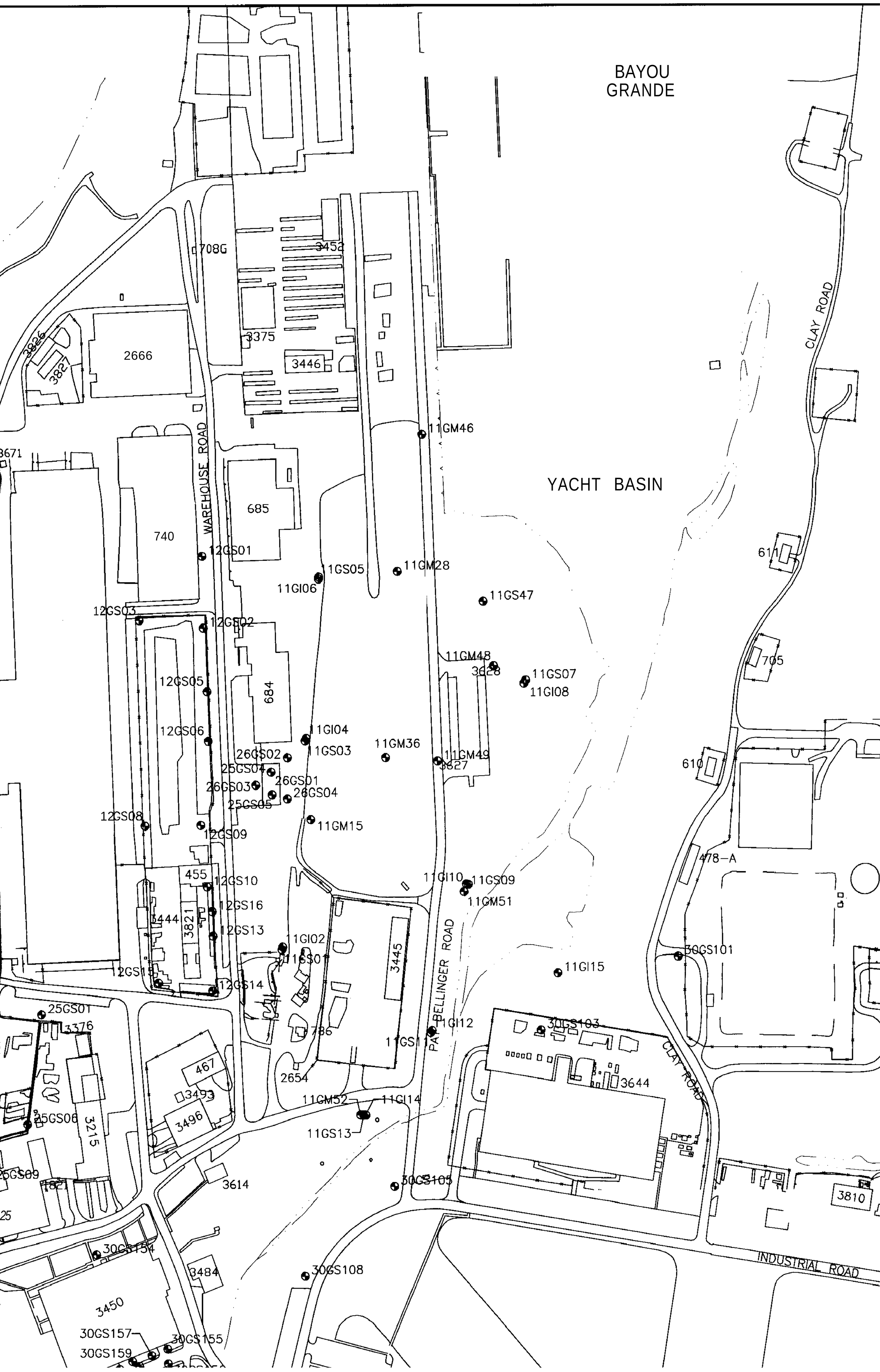
27GS05
30GS31
30GS33
649
27GS10
30GS157
30GS159
3833
30GS29
GOLF


BAYOU GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
740
685
684
455
3444
3821
3445
736
2654
467
3493
3496
3215
3376
3614
3484
3450
3644
3810
478-A
611
610
705
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11GI08
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11GI04
11GS03
11GM36
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26GS01
26GS03
26GS04
25GS05
11GM49
3827
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12GS09
11GM15
12GS10
12GS16
12GS13
11GI10
11GS09
11GM51
11GI02
11GS01
12GS15
12GS14
11GI15
30GS101
25GS01
11GI12
30GS103
11GS11
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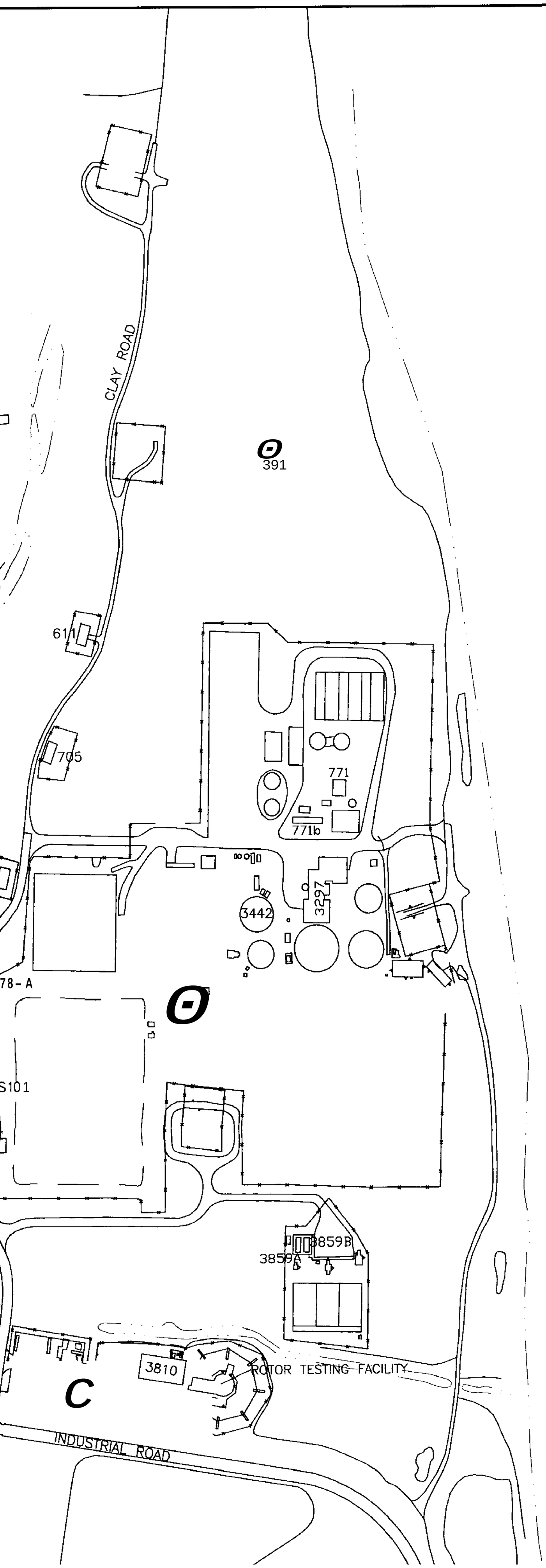
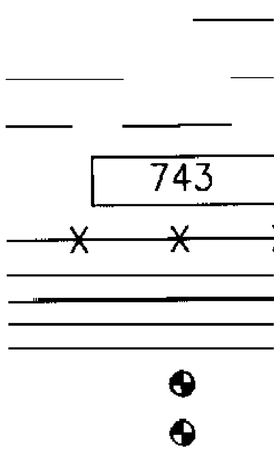
30GS108
30GS157
30GS155
30GS159



PHASE I INTERMEDIATE G ORGANIC COMPOUND		
Site	Monitoring Well ID	1,3
UNITS (μg/L)		10
27		
	27-G-1006-01	
30		
	30-G-I111-01	

1 = FGGC-FLORIDA **GROUNDWATER**
2 = FPDWS-FLORIDA **PRIMARY DRIN**

PENSACOLA BAY



PHASE I INTERMEDIATE GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

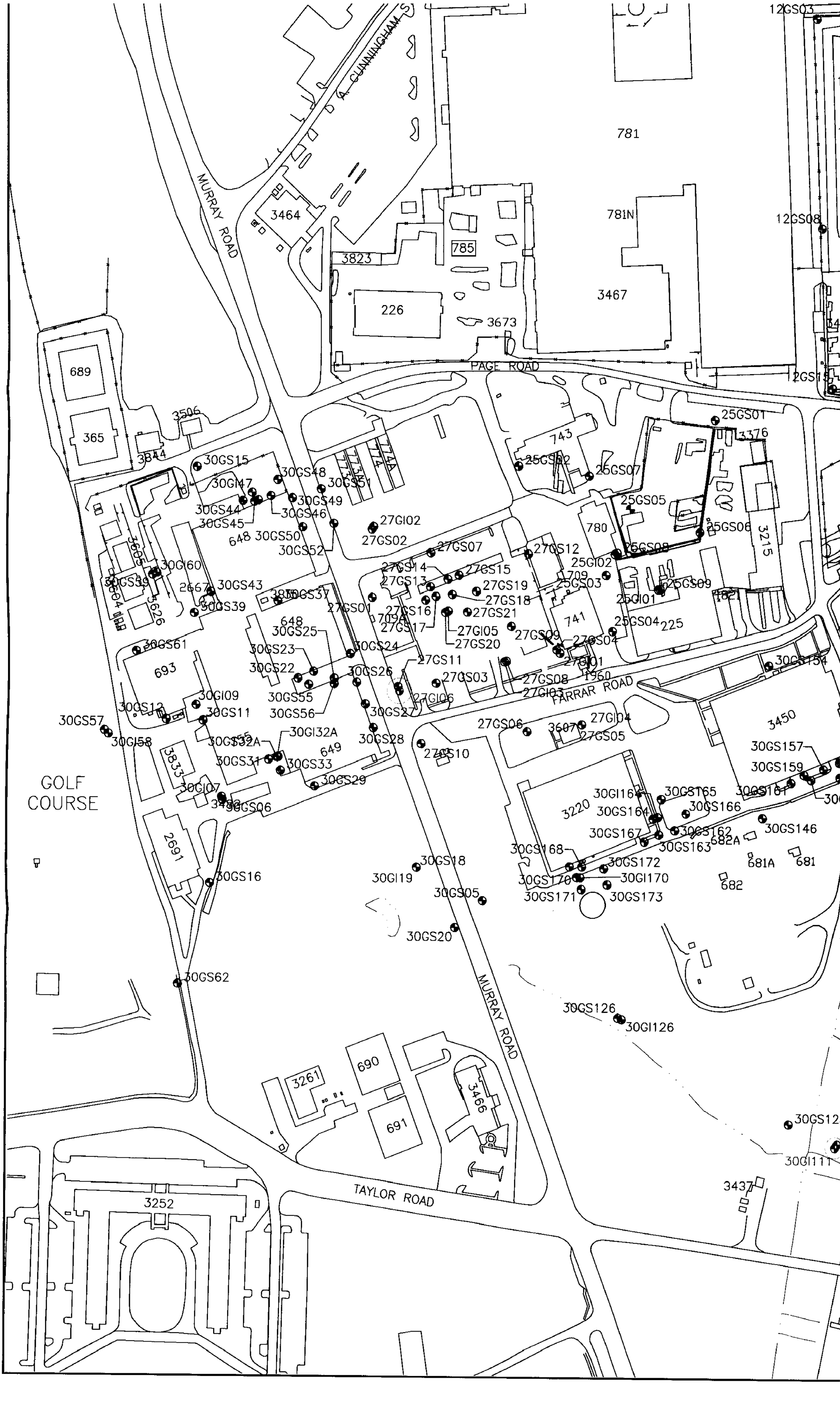
Site	Monitoring Well ID	1,3-DCB	1,4-DCB	Phenol
UNITS (µg/L)		10 (1)	75 (2)	10 (1)
27				
	27-G-1006-01			130 J
30				
	30-G-1111-01	37	180 J	

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE I INTERMEDIATE GROUNDWATER SEMI-VOLATILE ORGANIC COMPOUND EXCEEDANCES)


A. CUNNINGHAM
MURRAY ROAD
3464
3823
785
226
3673
3467
781
781N
12GS03
12GS08
12GS13
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS45
30GS46
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
774
774A
743
25GS01
3376
25GS02
25GS07
25GS05
25GS06
780
25GS08
3215
25GI02
709
25GS03
25GS09
25GI01
1821
225
25GS04
741
27GS14
27GS15
27GS13
27GS19
27GS18
27GS21
27GS16
27GS17
709A
27GS01
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
1960
FARRAR ROAD
30GS154
30GI60
30GS59
3604
3605
3626
2667
30GS43
30GS37
30GS39
648
30GS25
30GS23
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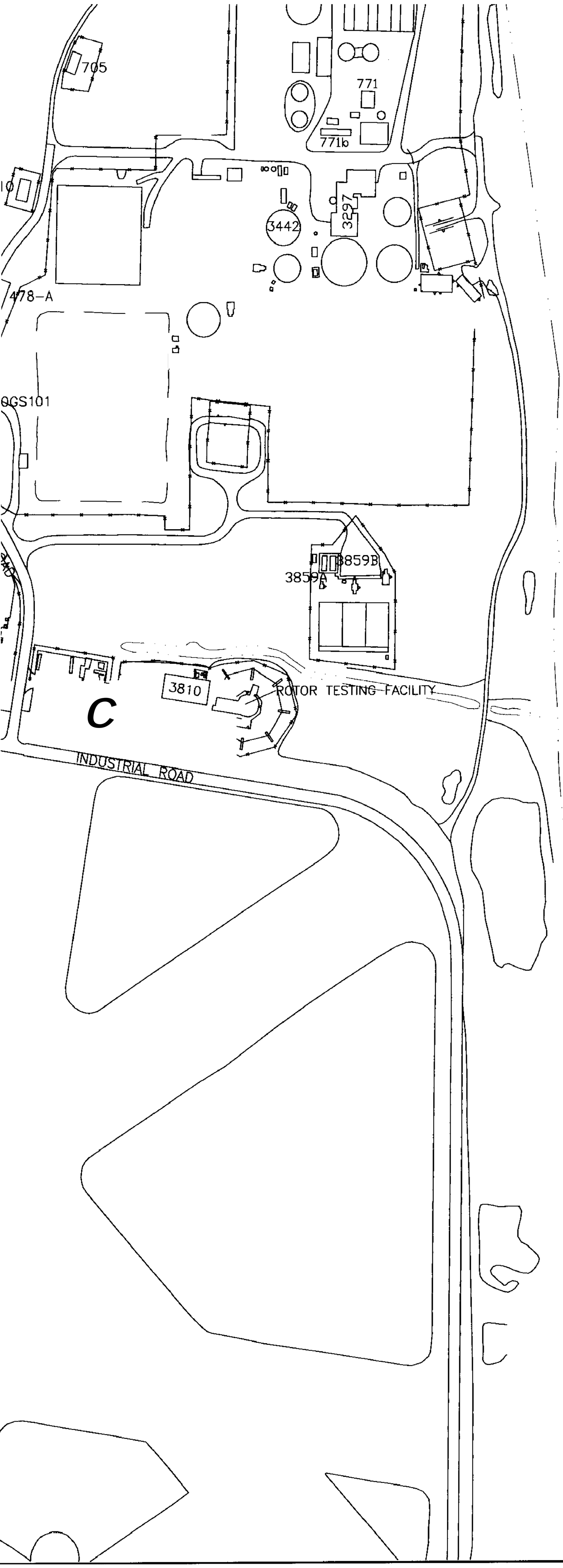

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2 = FPDWS-FLORIDA PRIMARY

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1 = FGGC-FLORIDA **GROUNDWATER** GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA **PRIMARY** DRINKING **WATER STANDARD**

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE I INTERMEDIATE GROUNDWATER SEMI-VOLATILE ORGANIC COMPOUND EXCEEDANCES)

1,3-DCB 1,3-DICHLOROBENZENE
1,4-DCB 1,4-DICHLOROBENZENE

APPROXIMATE **AREA** OF PHASE I INTERMEDIATE GROUNDWATER 1,3-DCB **AND** 1,4-DCB CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION **AND** FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE **AREA** OF PHASE I INTERMEDIATE GROUNDWATER PHENOL CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

NOTE'

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF ANY SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN µg/L.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES **MAY** BE REFLECTIVE OF BOTH CONTAMINANTS IN SEDIMENT/SOIL **AND** GROUNDWATER. SEE DISCUSSION IN SECTION 7.

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FIGURE 31
PHASE I INTERMEDIATE GROUNDWATER
SEMIVOLATILE COMPOUND EXCEEDANCES

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SECTIONS TO FOLLOW ON

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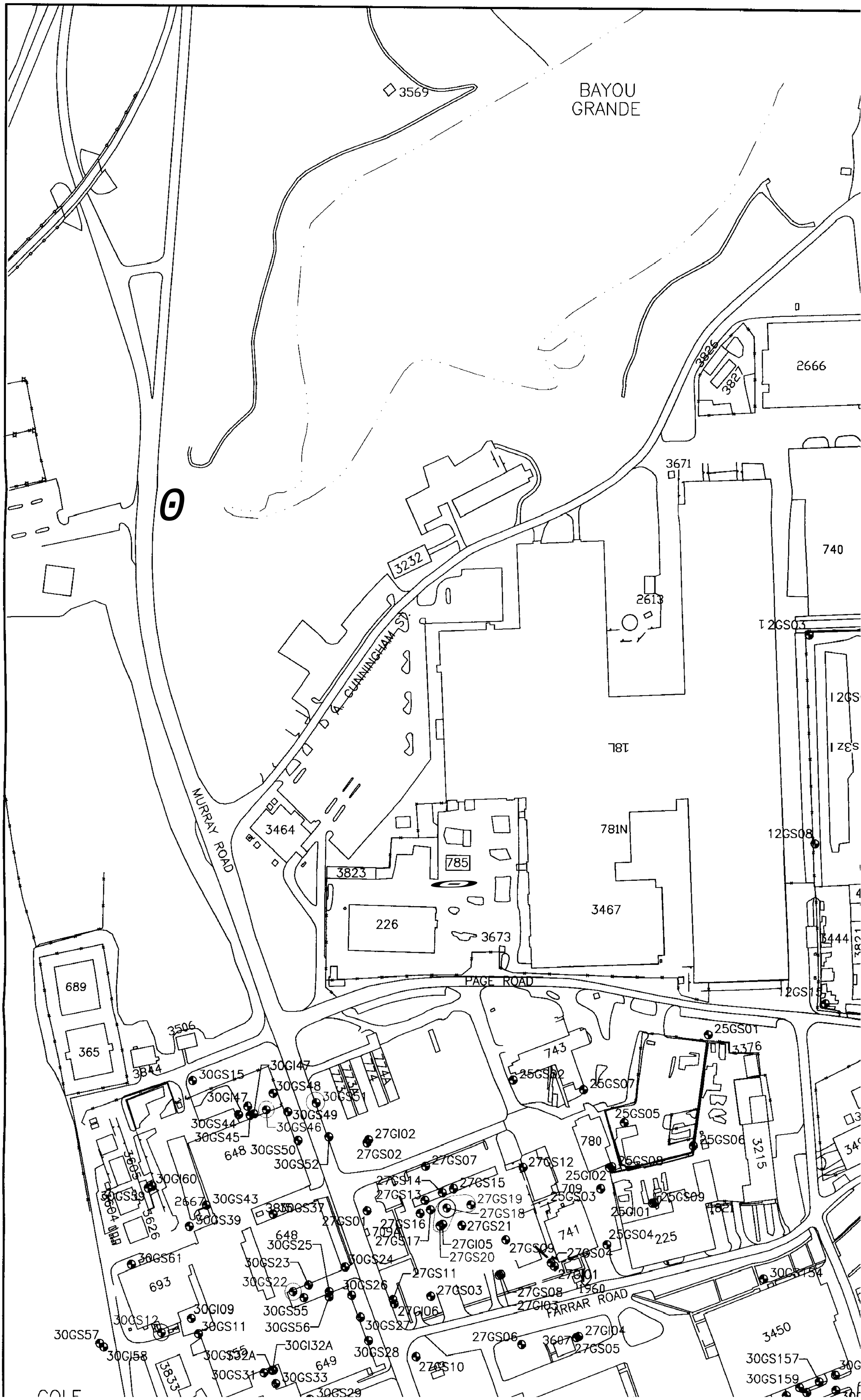
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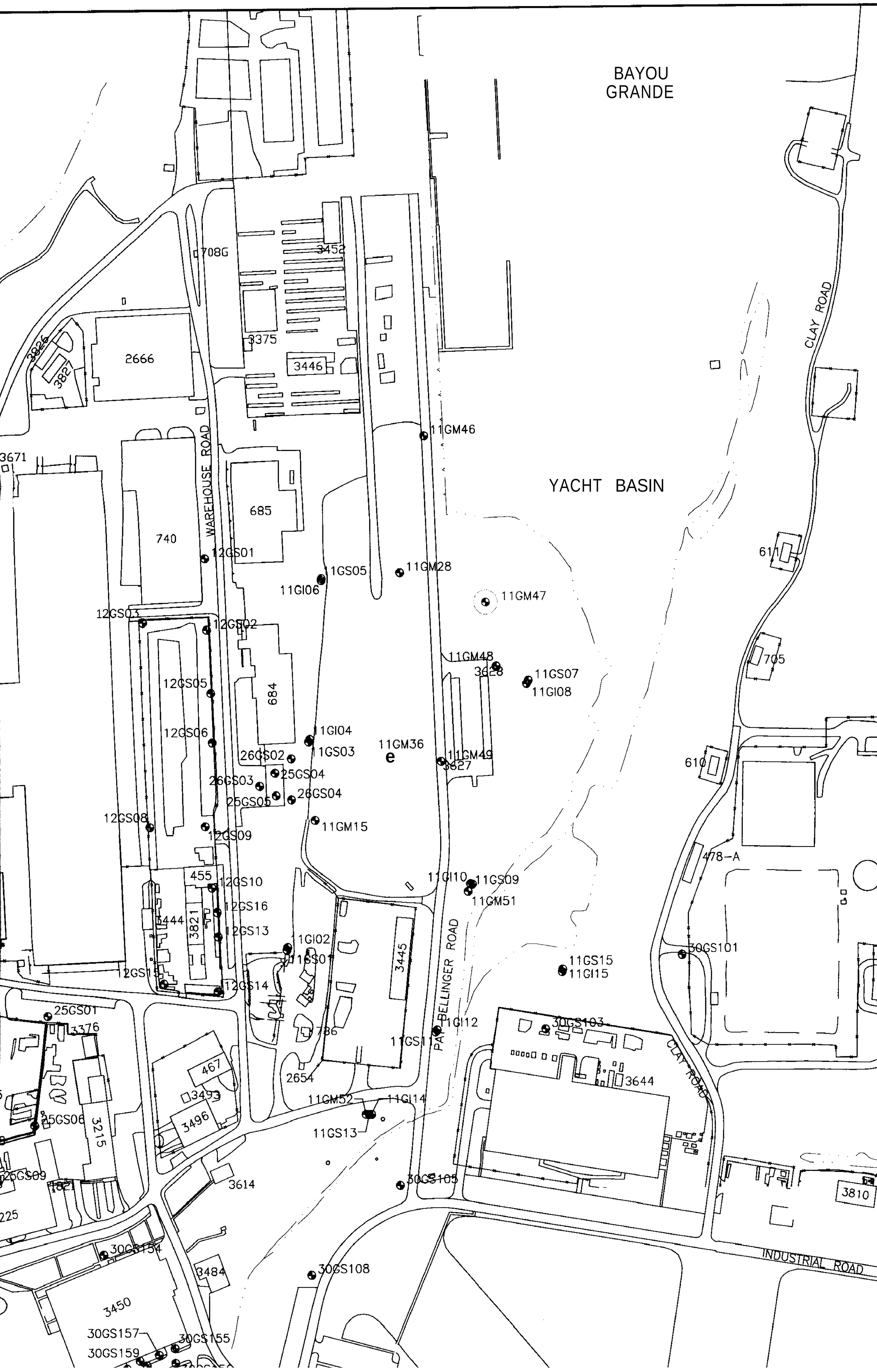
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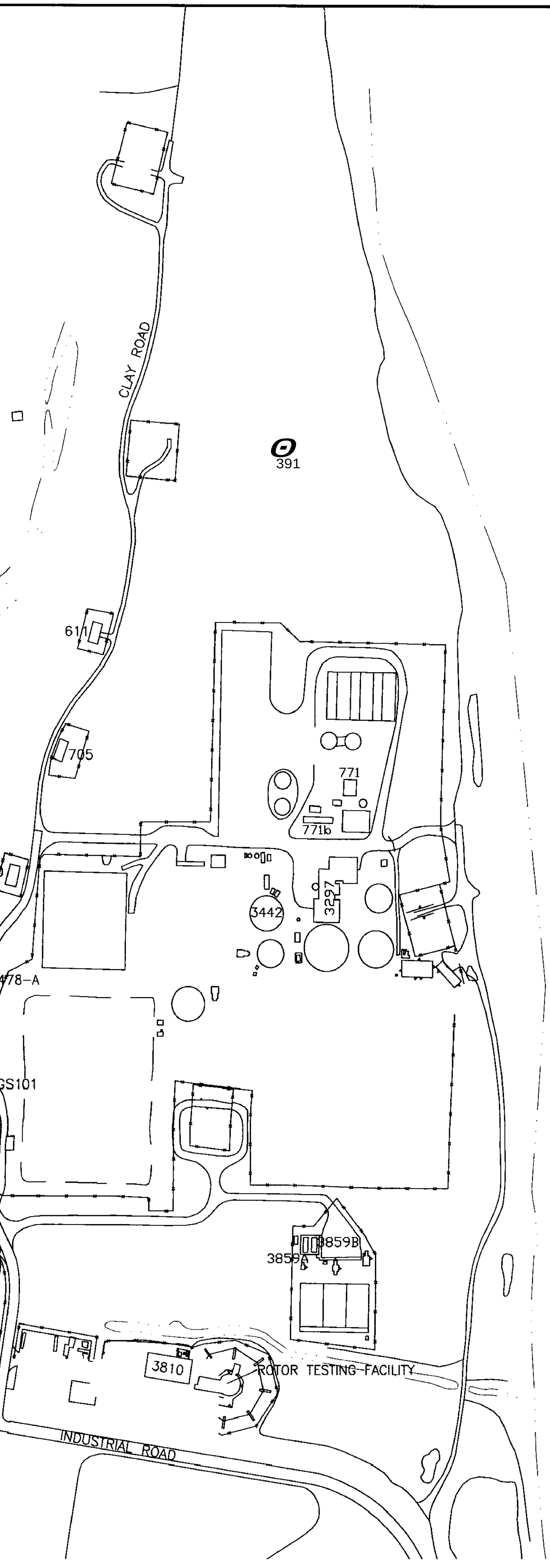
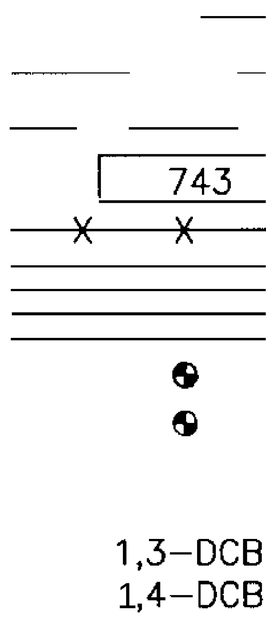


PHASE II SHALL SEMI-VOLA		
SITE	MONITORING WELL ID	1,3-DCB
UNITS (µg/L)		10 (1)
11		
	~~11-6-6M47~~	
27		
	27-G-GS18	
	27-G-GS19	
	27-G-GS20	
30		
	30-G-GI111	37
	30-G-GS12	
	30-G-GS22	
	30-G-GS46	
	30-G-GS51	

1 = FGGC-FLORIDA GROUNDWATEF
2 = FPDWS-FLORIDA PRIMARY DR
3 = RBC TAP-RISK-BASED CONC
BEHP = bis(2-Ethyhexyl)phthalate

PENSACOLA BAY



PHASE II WALLOW AND INTERMEDIATE GROUNDWATER SEMI-VOLATILE ORGANIC COMPOUND (SVOC) EXCEEDANCES

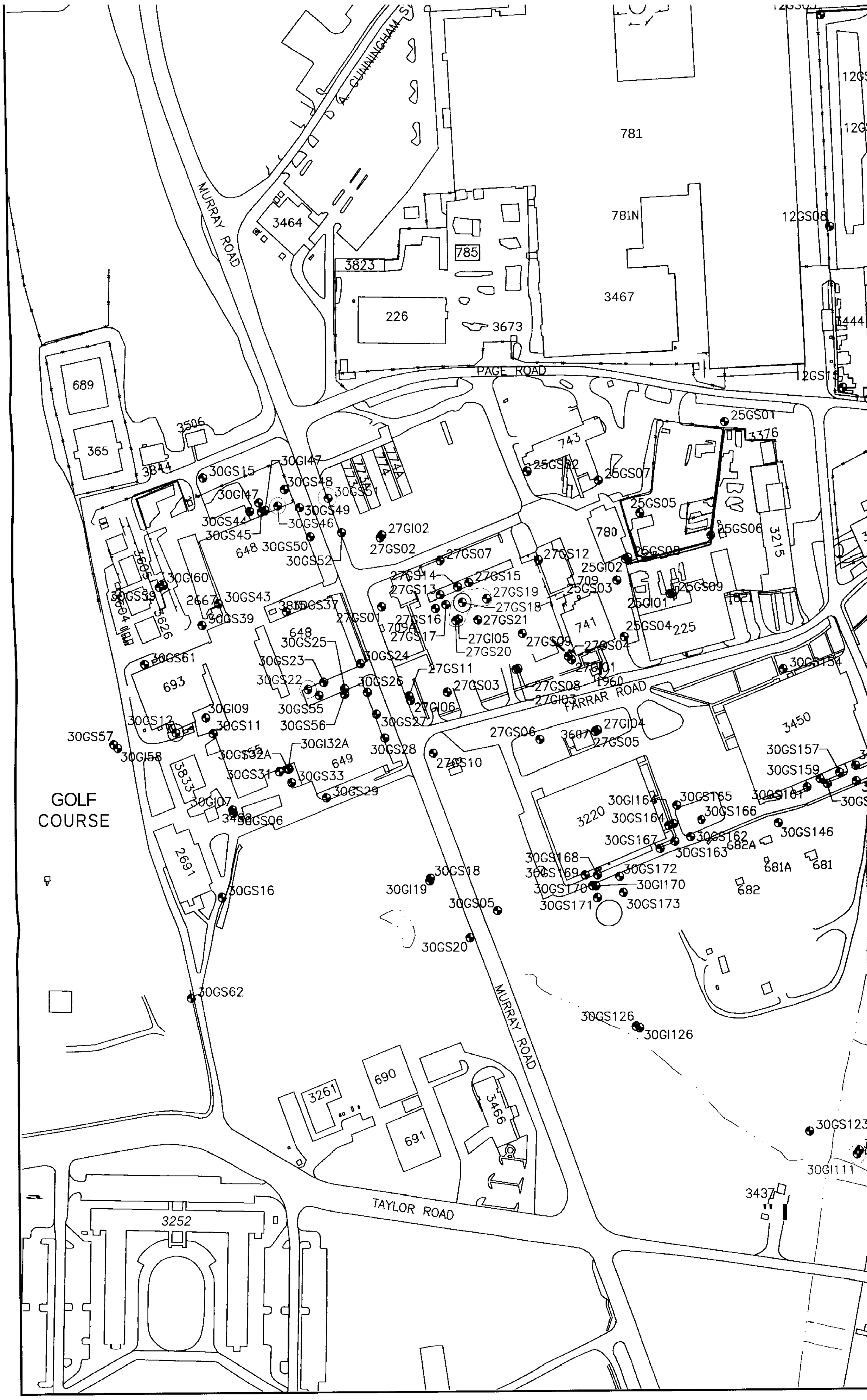
SITE	MONITORING WELL ID	1,3-DCB	1,4-DCB	BEHP	NAPHTHALENE	PENTACHLOROPHENOL
UNITS (µg/L)		10 (1)	75 (2)	4.8 (3)	6.8 (1)	1.0 (2)
11						
	11-G-GM47				60	
27						
	27-G-GS18				49	
	27-G-GS19			7.7 J	50	1.7 J
	27-G-GS20			9.3 J		
30						
	30-G-GI111	37	140 D			
	30-G-GS12					1.4 J
	30-G-GS22			11	14	
	30-G-GS46			9.7		
	30-G-GS51			13 J	15	

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
3 = RBC TAP-RISK-BASED CONCENTRATIONS FOR TAP WATER
BEHP = bis(2-Ethyhexyl)phthalate

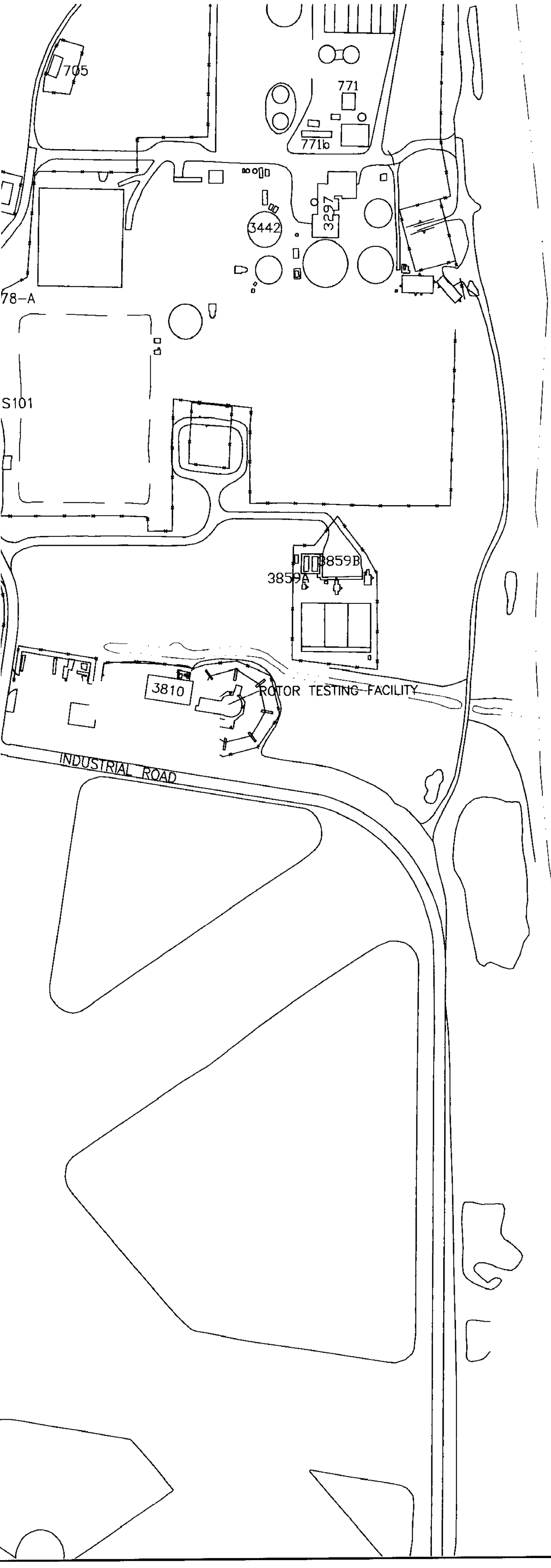
PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)
1,3-DCB 1,3-DICHLOROBENZENE
1,4-DCB 1,4-DICHLOROBENZENE
APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER 1,3-DCB AND 1,4-DCB CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND FLORIDA PRIMARY DRINKING WATER STANDARD.
APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE


A. CUNNINGHAM ST
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
3467
785
3823
3464
226
3673
689
365
3506
3844
743
780
741
709
709A
648
649
693
2691
690
691
3261
3252
3466
3450
3220
3215
3376
3444
3437
3833
3626
3605
3604
2667
3835
3607
1960
1621
225
682
682A
681
681A
12GS08
12GS15
25GS01
25GS02
25GS07
25GS05
25GS06
25GS08
25GI02
25GS03
25GS09
25GI01
25GS04
27GI02
27GS02
27GS07
27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
27GI06
27GS06
27GI04
27GS05
27GS10
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
30GS50
30GS52
30GI60
30GS59
30GS43
30GS37
30GS39
30GS25
30GS23
30GS24
30GS22
30GS26
30GS61
30GS55
30GS56
30GS27
30GS28
30GI09
30GS11
30GS12
30GS57
30GI58
30GS32A
30GI32A
30GS31
30GS33
30GS29
30GI07
30GS06
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
30GS123
30GI111
30GS157
30GS159
30GS161
30GI164
30GS165
30GS166
30GS164
30GS167
30GS162
30GS163
30GS146
30GS168
30GS169
30GS172
30GS170
30GI170
30GS171
30GS173

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
25GS04
26GS03
26GS04
25GS05
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
1GI02
11GS01
3445
12GS15
12GS14
25GS01
3376
736
2654
467
3493
3496
3215
25GS06
25GS09
3614
3484
3450
30GS157
30GS155
30GS159
30GS156
30GS160
30GS165
30GS161
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
11GI10
11GS09
11GM51
BELLINGER ROAD
11GS15
11GI15
11GI12
11GS11
11GM52
11GI14
11GS13
30GS105
30GS154
30GS108
705
610
478-A
30GS101
30GS103
3644
CLAY ROAD
INDUSTRIAL ROAD



UNITS (µg/L)		10 (1)
11		
	11-G-GM47	
27		
	27-G-GS18	
	27-G-GS19	
	27-G-GS20	
30		
	30-G-GI111	37
	30-G-GS12	
	30-G-GS22	
	30-G-GS46	
	30-G-GS51	

1 = FGGC-FLORIDA GROUNDWATER
2 = FPDWS-FLORIDA PRIMARY DRI
3 = RBC TAP-RISK-BASED CONCE
BEHP = bis(2-Ethyhexyl)phthalate

PENSACOLA BAY

743

1,3-DCB
1,4-DCB

1. HIGHL
PHAS
COMF
GRAY
GROU
2. J VAL
3. D VA
4. ALL

200 0 200
SCALE FEET

UNITS (µg/L)		10 (1)	75 (2)	4.8 (3)	6.8 (1)	1.0 (2)
11						
	11-G-GM47				60	
27						
	27-G-GS18				49	
	27-G-GS19			7.7 J	50	1.7 3
	27-G-GS20			9.3 J		
30						
	30-G-GI111	37	140 D			
	30-G-GS12					1.4 J
	30-G-GS22			11	14	
	30-G-GS46			9.7		
	30-G-GS51			13 J	15	

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WAER STANDARD
3 = RBC TAP-RISK-WED CONCENTRATIONS FOR TAP WATER
BEHP = bis(2-Ethyhexyl)phthalate

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW ANC, INTERMEDIATE GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND EXCEEDANCES)
1,3-DCB 1,3-DICHLOROBENZENE
1,4-DCB 1,4-DICHLOROBENZENE
APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER 1,3-DCB AND 1,4-DCB CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATIONS AND FLORIDA PRIMARY DRINKING WATER STANDARD,
APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER NAPHTHALENE AND/OR BEHP CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION,
APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER PENTACHLOROPHENOL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER SJANOARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ON€ OR MORE PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SEMIVOLATILE ORGANIC COMPOUND GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. D VALUE INDICATES CONCENTRATION DETERMINED FROM DILUTED SAMPLE.
4. ALL CONCENTRATIONS ARE IN µg/L.

N

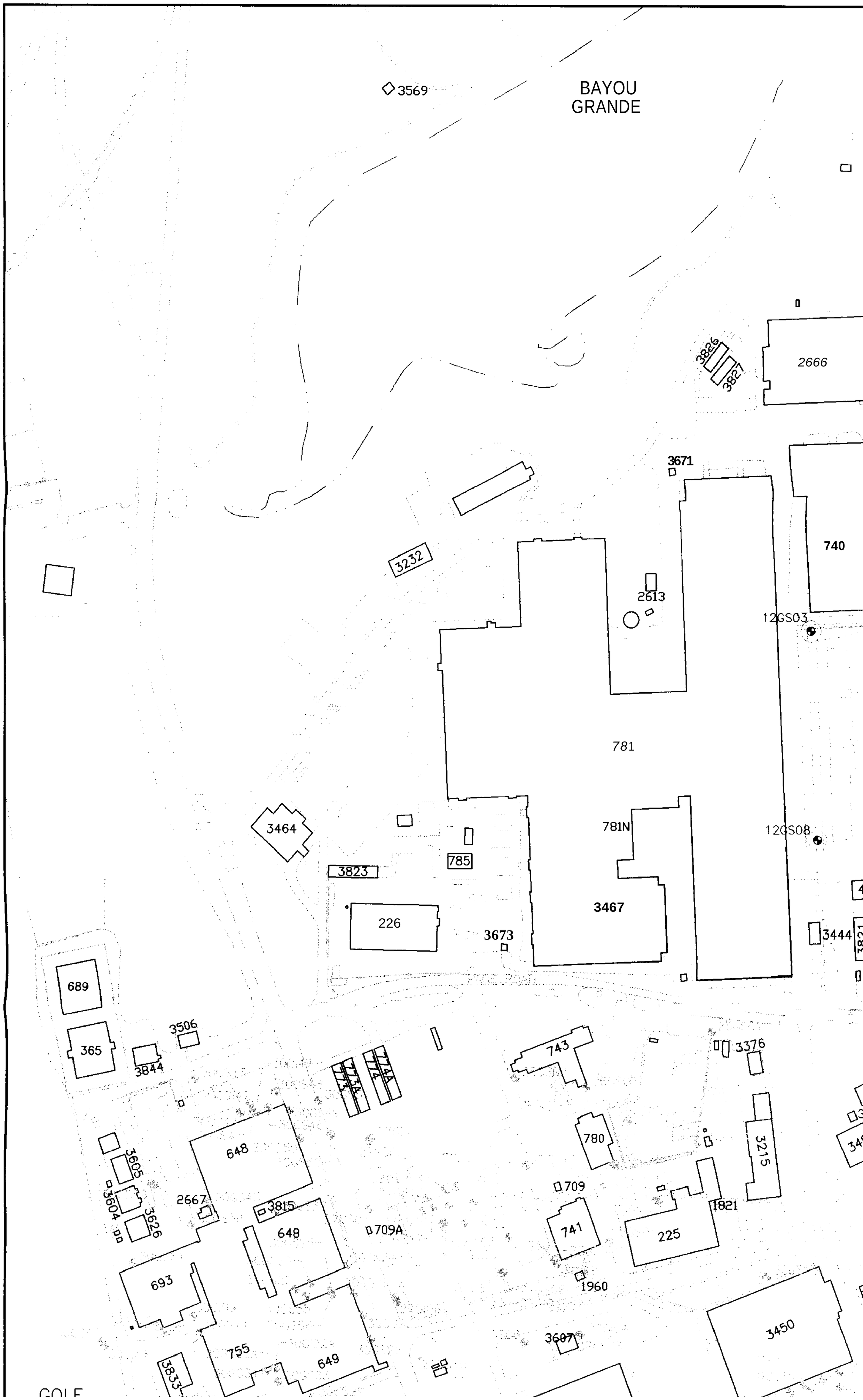
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 32
PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SEMIVOLATILE COMPOUND EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2GWR	Of 1

SECTIONS TO FOLLOW ON


3569
BAYOU
GRANDE
3826
3827
2666
3671
740
3232
2613
12GS03
781
781N
12GS08
3464
785
3823
3467
226
3673
3444
689
365
3506
3844
743
3376
773A
774A
774
780
3215
648
3605
3604
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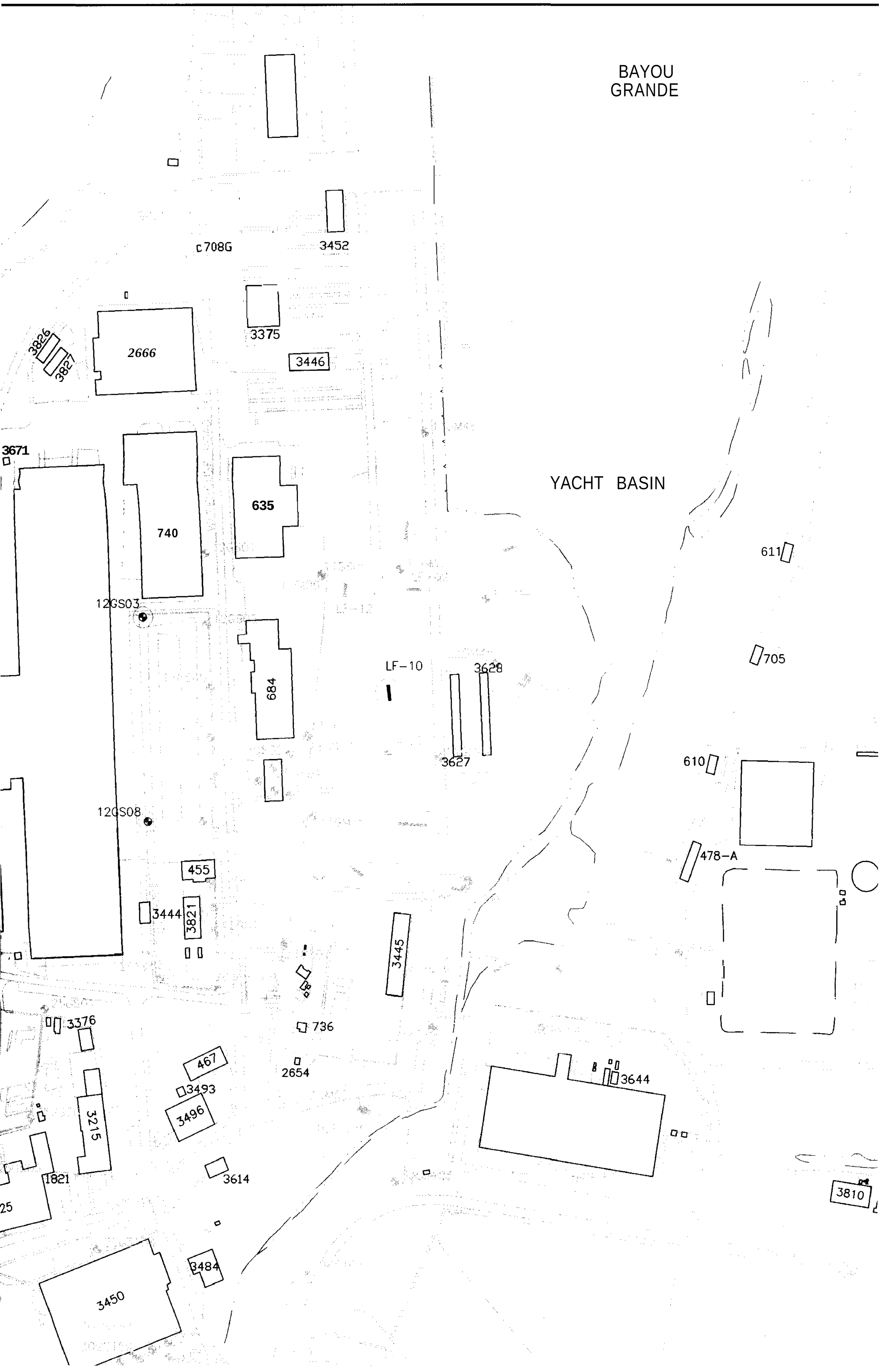
755
649
3607
3450
3833


BAYOU
GRANDE
YACHT BASIN
c708G
3452
3826
3827
2666
3375
3446
3671
740
635
12GS03
684
LF-10
3628
3627
611
705
610
478-A
12GS08
455
3444
3821
3445
3376
736
467
2654
3493
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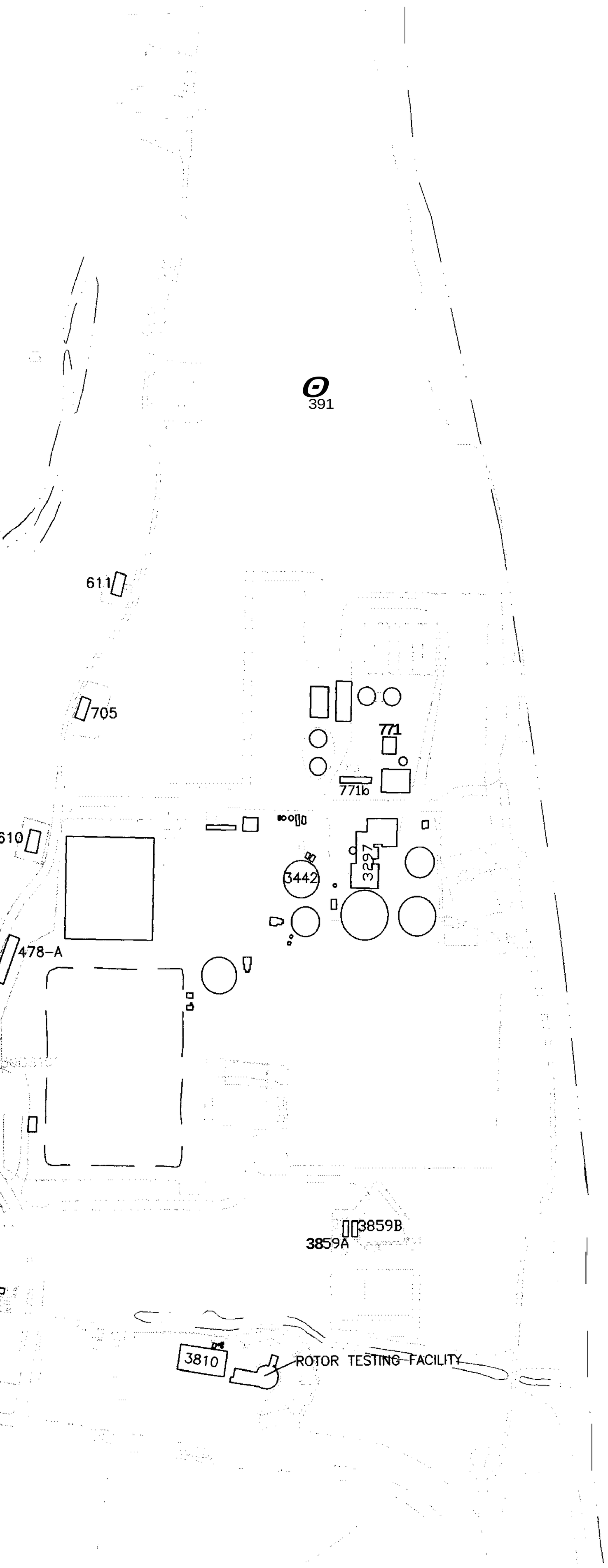
1821
3614
3810
3484
3450



PHASE I SHALLOW PESTICIDE	
Site	Monitoring Well ID
Units (µg/L)	
11	
	11-G-LF-10
12	
	12-G-GS03
	12-G-GS08
130	
	30-G-S123

1 = FGGC-FLORIDA GROU
2 = WOWS-FLORIDA PR
4,4'-DDD = 4,4'-DICHLO

PENSACOLA BAY

L

743

PHASE I SHALLOW AND INTERMEDIATE GROUNDWATER PESTICIDE AND PCB EXCEEDANCES

Site	Monitoring Well ID	4,4'-DDD	Dieldrin	Toxaphene
Units (µg/L)		0.1 (1)	0.1 (1)	3.0 (2)
11				
	1t-G-LF-10	0.14 J		
12				
	12-G-GS03		0.3	
	12-G-GS08	0.11		
30				
	30-G-Sl23			4.8

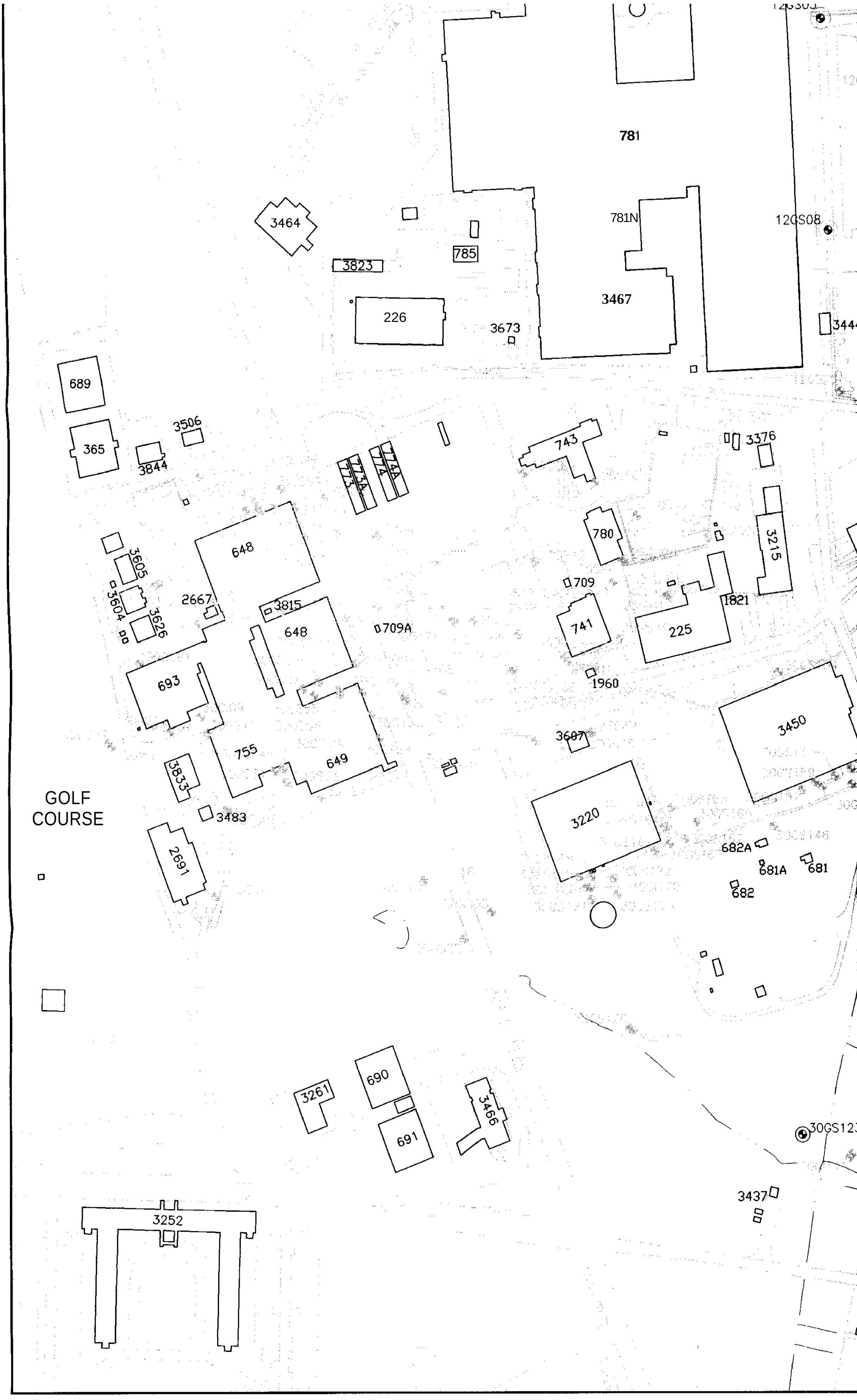
1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
4,4'-DDD = 4,4'-DICHLORODIPHENYLDICHLOROETHANE

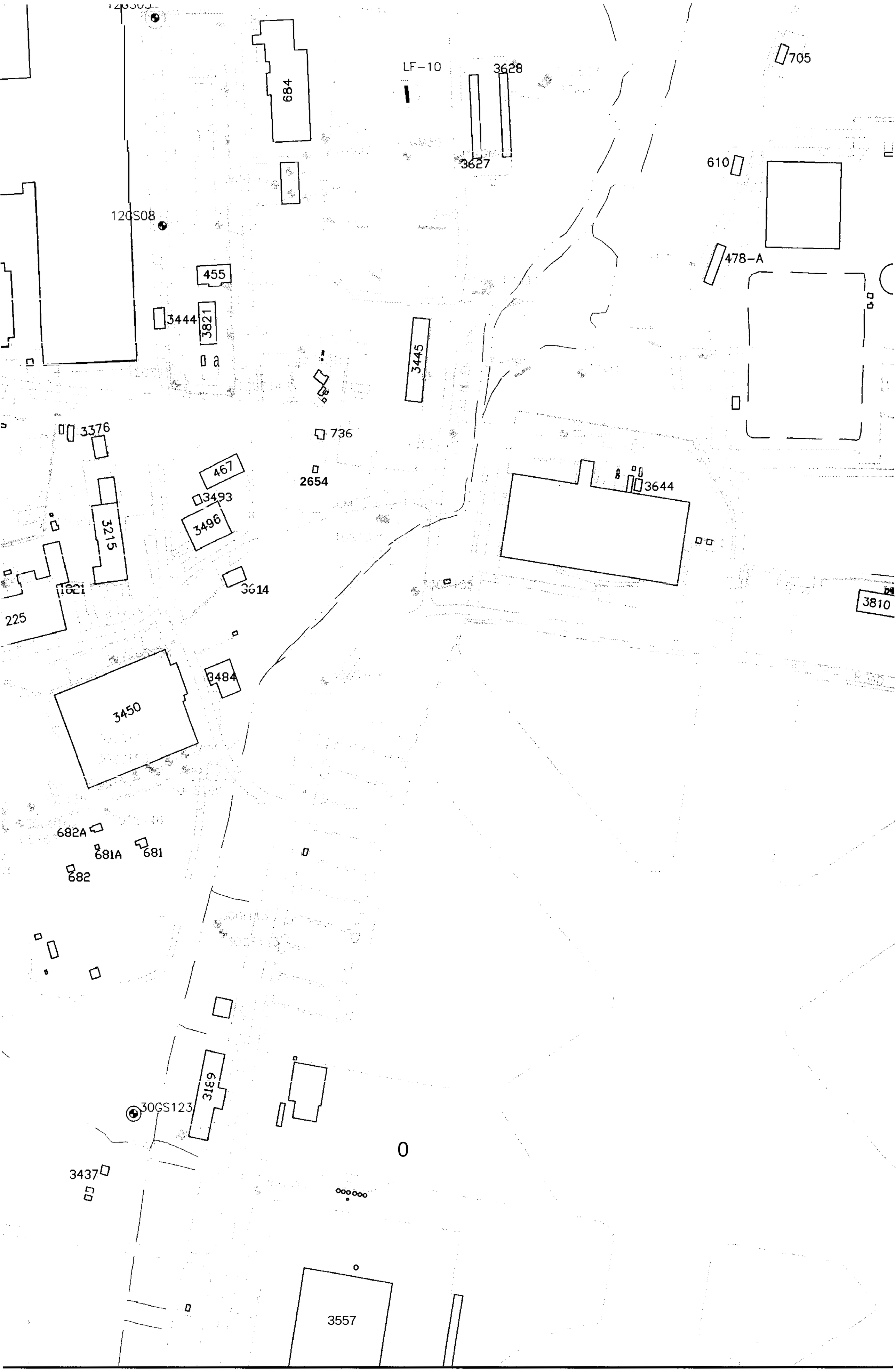
PENSACOLA BAY

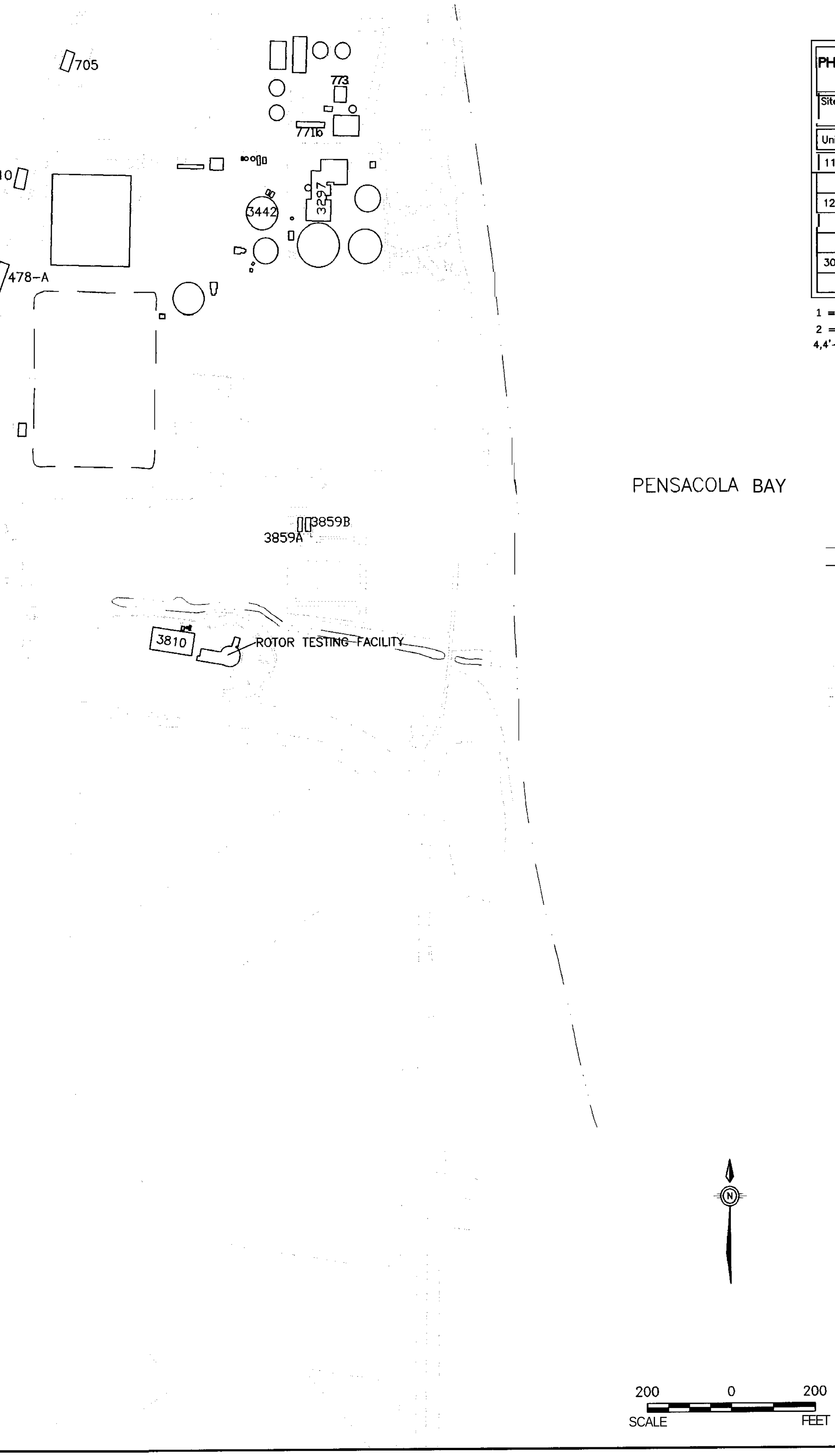
LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SHALLOW GROUNDWATER PESTICIDE AND PCB EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER PESTICIDE AND PCB EXCEEDANCES)

APPROXIMATE AREA OF PHASE I SHALLOW 4,4'-DDD CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.


781
781N
12GS08
3464
3823
785
3467
226
3673
689
365
3506
3844
743
3376
773A
774A
774
780
3215
648
3605
3604
3626
2667
3815
709
741
1821
225
709A
693
648
1960
3450
755
649
3607
3833
3483
3220
GOLF
COURSE
2691
682A
681A
681
682
690
3261
691
3466
30GS12
3437
3252


684
LF-10
3628
3627
705
610
12GS08
478-A
455
3444
3821
3445
3376
736
467
2654
3493
3496
3644
3215
3614
3810
225
3484
3450
682A
681A
681
682
3189
30GS123
3437
3557



PHASE I SHALLOW A PESTICIDE	
Site	Monitoring Well ID
Units (µg/L)	
11	
	11-G-LF-10
12	
	12-G-GS03
	12-G-GS08
30	
	30-G-S123

1 = FGGC-FLORIDA GROUN
2 = FPDWS-FLORIDA PRIM
4,4'-DDD = 4,4'-DICHLORO

LE

1. HIG ONI PES GRA GRO
2. J V
3. ALL
4. AN RE SE
5. NO WE

PHASE I SHALLOW AND INTERMEDIATE GROUNDWATER PESTICIDE AND PCB EXCEEDANCES

Site	Monitoring Well ID	4,4'-DDD	Dieldrin	Toxaphene
Units (µg/L)		0.1 (1)	0.1 (1)	3.0 (2)
'I				
	?1-G-LF-10	0.14 J		
12				
	12-G-GS03		0.3	
	12-G-GS08	0.11		
30				
	30-G-S123			4.8

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION
2 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
4,4'-DDD = 4,4'-DICHLORODIPHENYLDICHLOROETHANE

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SHALLOW GROUNDWATER PESTICIDE AND PCB EXCEEDANCES)
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER PESTICIDE AND PCB EXCEEDANCES)

APPROXIMATE AREA OF PHASE I SHALLOW 4,4'-DDD CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION.

APPROXIMATE AREA OF PHASE I SHALLOW DIELDRIN CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION,

APPROXIMATE AREA OF PHASE I SHALLOW TOXAPHENE CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE PHASE I SHALLOW AND INTERMEDIATE GROUNDWATER PESTICIDE AND/OR PCB EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW AND INTERMEDIATE GROUNDWATER PESTICIDES AND/OR PCB GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN µg/L.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.
5. NO INTERMEDIATE GROUNDWATER PESTICIDE OR PCB EXCEEDANCES WERE NOTED.

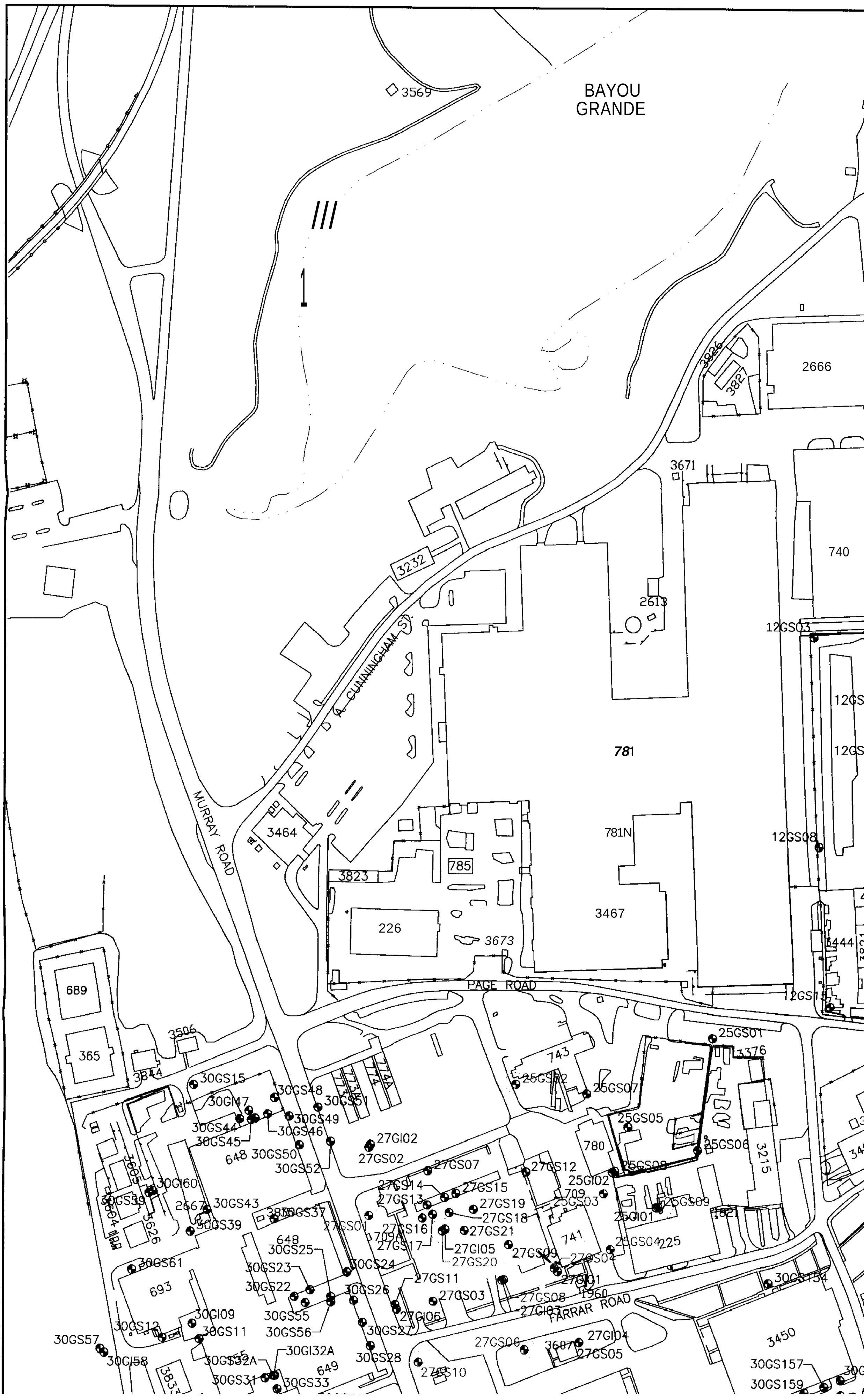
200 0 200
SCALE FEET

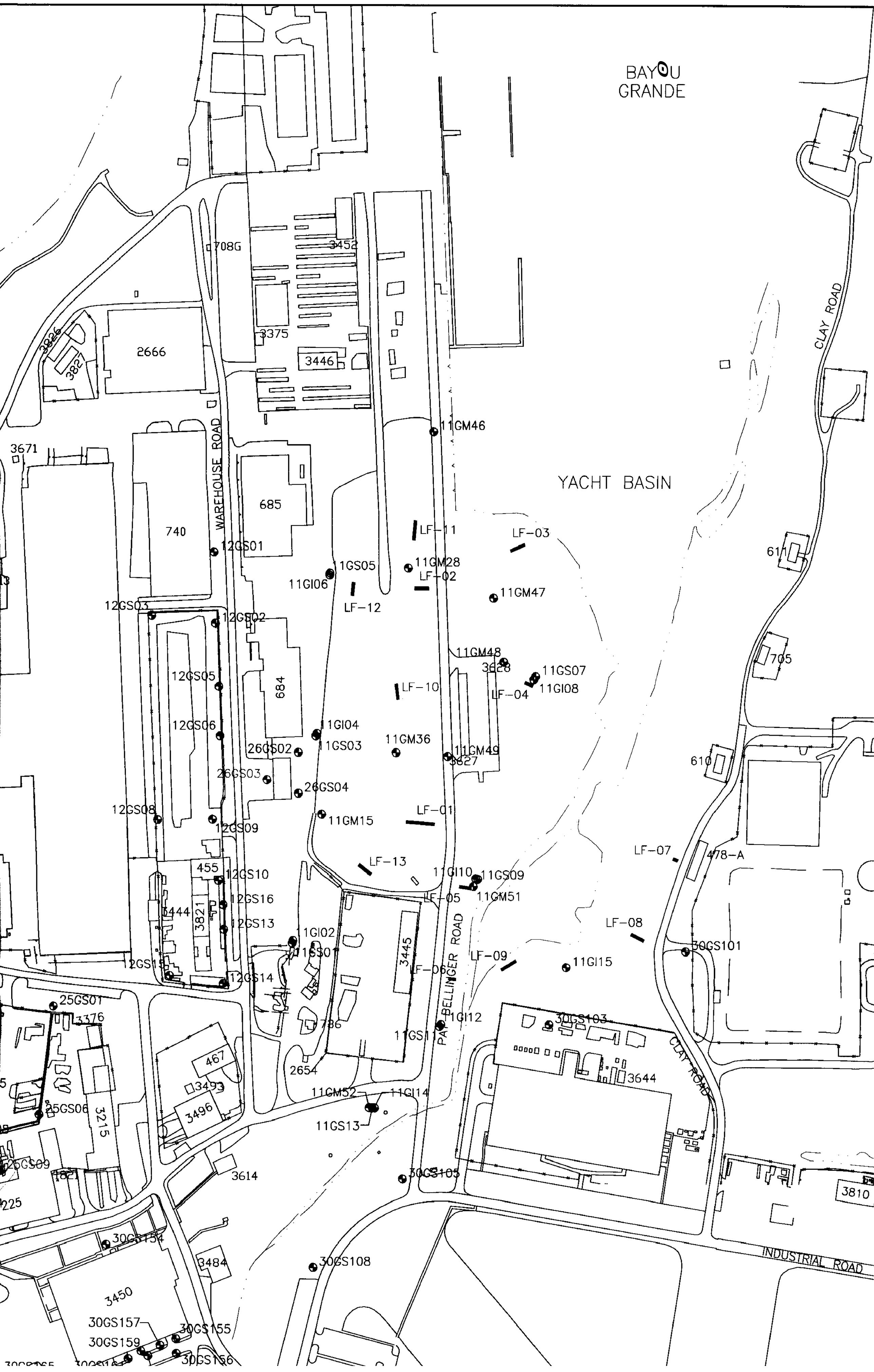
NAS PENSACOLA
OPERABLE UNIT 2

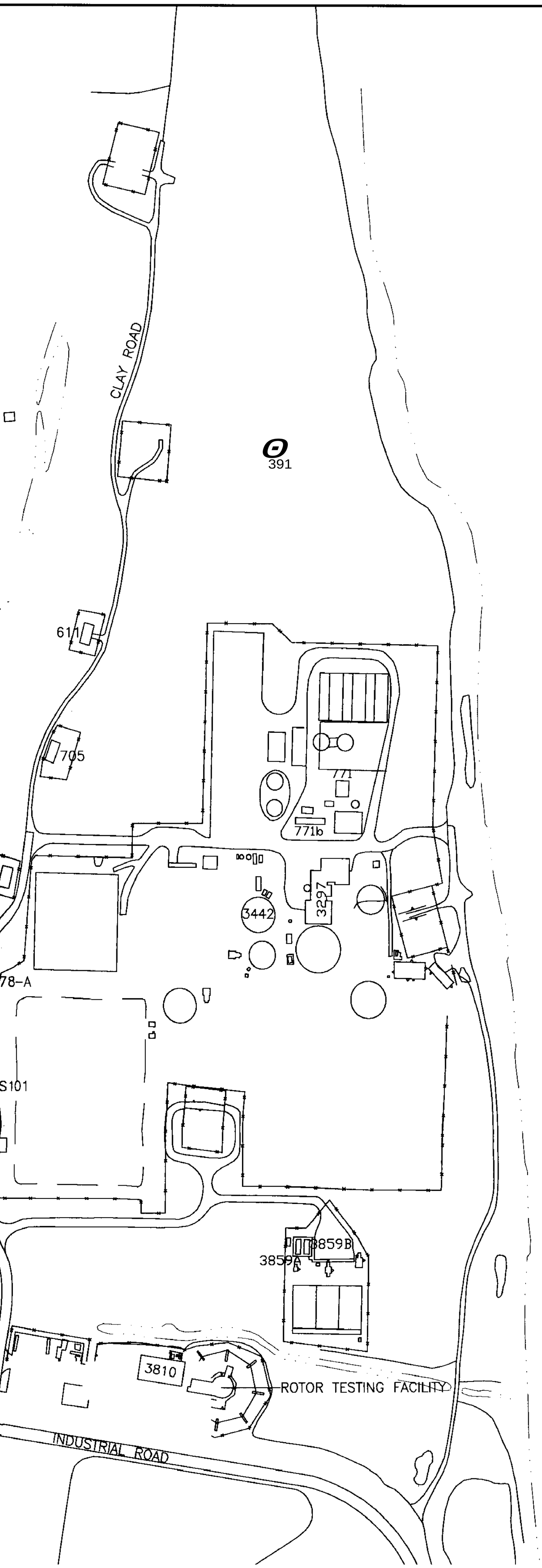
FIGURE 33
PHASE I SHALLOW AND INTERMEDIATE GROUNDWATER PESTICIDE AND PCB EXCEEDANCES

Dr by: KB/E/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2PE	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
3826
382
2666
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
12GS08
MURRAY ROAD
3464
785
781N
3823
3467
226
3673
3444
PAGE ROAD
12GS15
689
365
3506
3844
25GS01
3376
743
25GS02
25GS07
30GS15
30GS48
30GS51
30GI47
30GS49
30GS44
30GS46
30GS45
27GI02
25GS05
648
30GS50
27GS02
780
25GS06
30GS52
27GS07
27GS12
3215
25GS08
30GI60
27GS14
27GS15
25GI02
709
27GS13
27GS19
25GS03
30GS43
2667
30GS37
27GS18
25GS09
30GS39
27GS01
27GS16
27GS21
25GI01
709A
741
27GS17
27GI05
25GS04
225
648
30GS25
27GS20
27GS09
27GS04
30GS61
30GS23
30GS24
27GS11
27GI01
30GS22
30GS26
27GS03
27GS08
1960
693
30GS55
27GI06
27GI03
FARRAR ROAD
30GS12
30GI09
30GS11
30GS56
30GS27
27GI04
30GS57
27GS06
3607
27GS05
3450
30GI58
30GI32A
30GS28
30GS32A
649
27GS10
30GS157
30GS31
30GS33
30GS159


BAYOU GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
685
740
684
455
3444
3821
3445
736
2654
467
3493
3496
3215
3376
25GS01
25GS06
25GS09
3225
3614
30GS154
3484
3450
30GS157
30GS159
30GS155
30GS156
30GS108
30GS105
30GS103
3644
3810
30GS101
11GS13
11GM52
11GI14
11GI12
11GS11
11GI10
11GS09
11GM51
11GI15
LF-13
LF-05
LF-06
LF-09
LF-08
LF-07
LF-01
LF-10
LF-04
LF-12
LF-02
LF-11
LF-03
11GM15
11GM36
11GM49
3627
11GM48
3628
11GS07
11GI08
11GM47
11GM28
11GS05
11GI06
11GM46
11GI04
11GS03
26GS02
26GS03
26GS04
12GS01
12GS02
12GS03
12GS05
12GS06
12GS08
12GS09
12GS10
12GS16
12GS13
12GS14
12GS15
11GI02
11GS01
611
705
610
478-A



PHASE I WALLOW GROUNDW ANTIMONY EXCEEDANCE		
SITE	MONITORING WELL ID	Ar
UNITS (µg/L)		
11		
	11-G-LF10	
25		
	25-G-S002	
	25-G-S003	2
	25-G-S004	
	25-G-S009	
26		
	26-G-GS03	2
27		
	27-G-S001	
	27-G-S004	
	27-G-S006	
	27-G-S008	
	27-G-S010	
	27-G-S020	

1 = FPDWS-FLORIDA PRIMARY DRINKING W

PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER ANTIMONY EXCEEDANCES		
SITE	MONITORING WELL ID	Antimony (Sb)
UNITS (μg/L)		6 (1)
11		
	11-G-LF10	210
25		
	25-G-S002	61 J
	25-G-S003	20.2 J
	25-G-S004	218 J
	25-G-S009	45.7 J
26		
	26-G-GS03	20.2 J
27		
	27-G-S001	61.1 J
	27-G-S004	48 J
	27-(;-SO06	38.5 J
	27-G-S008	43.6 3
	27-G-S010	61 J
	27-G-S020	50

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

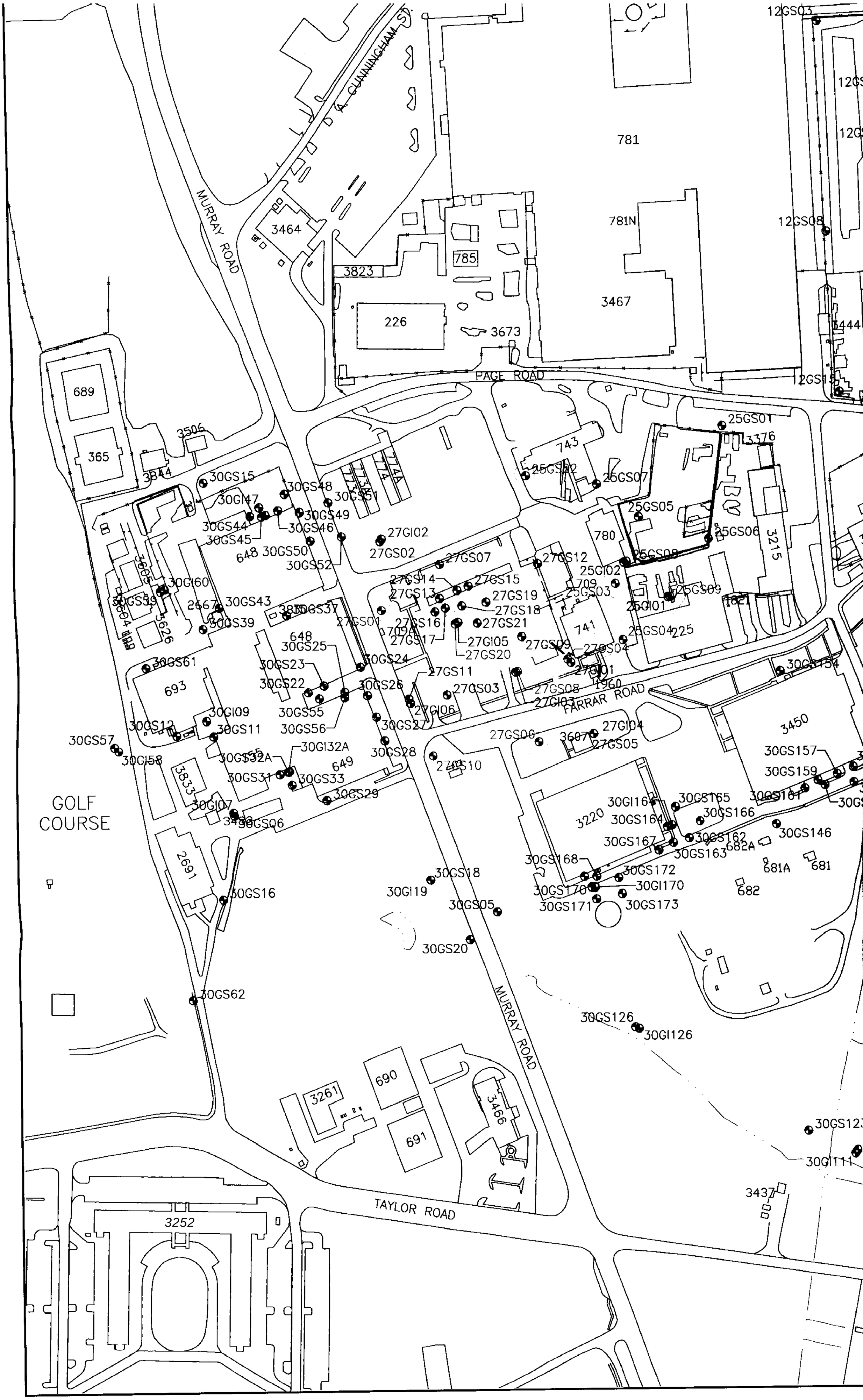
SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER **ANTIMONY** EXCEEDANCES)


MURRAY ROAD
A. CUNNINGHAM ST.
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
3467
785
3823
3464
226
3673
689
365
3506
3844
743
780
741
709
709A
693
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3261
3466
3252
3437
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3215
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3376
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3626
3833
3804
2691
12GS03
12GS08
25GS01
25GS02
25GS07
25GS05
25GS06
25GS08
25GI02
25GS03
25GS09
25GI01
25GS04
27GI02
27GS02
27GS07
27GS12
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27GS17
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27GS08
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27GI06
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27GI04
27GS05
27GS10
30GS15
30GI47
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30GS45
30GS46
648
30GS50
30GS52
30GI60
30GS43
30GS39
30GS37
30GS25
30GS23
30GS22
30GS24
30GS26
30GS55
30GS56
30GS27
30GS28
30GS61
30GI09
30GS11
30GS12
30GS57
30GI58
30GI32A
30GS32A
30GS31
30GS33
649
30GS29
30GI07
30GS06
30GS16
30GS18
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30GS05
30GS20
30GS62
30GS126
30GI126
30GS154
30GS157
30GS159
30GI164
30GS165
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30GS162
30GS163
30GS146
682A
30GS168
30GS172
30GI170
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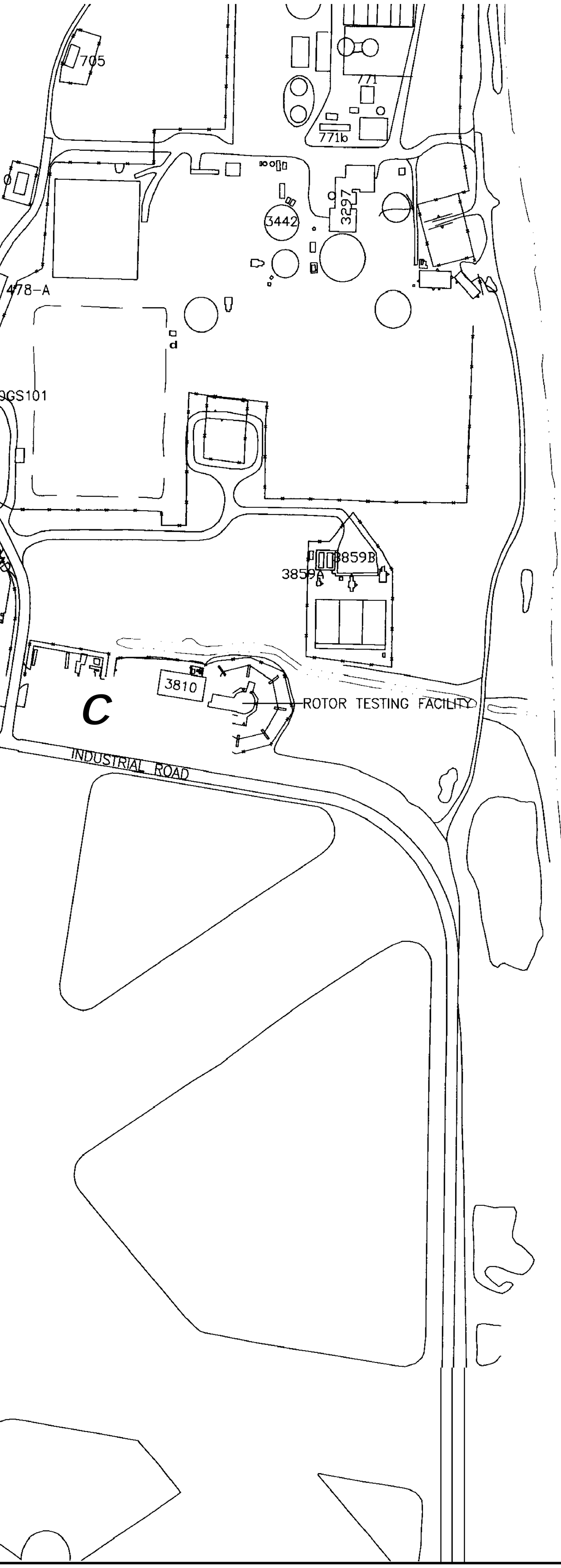
30GS173
681A
681
682
30GS123
30GI111

12GS03
12GS02
LF-12
12GS05
684
12GS06
11GI04
26GS02
11GS03
26GS03
26GS04
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
1GI02
11GS01
12GS15
12GS14
LF-10
11GM48
3628
11GS07
11GI08
LF-04
11GM36
11GM49
3627
LF-01
LF-13
11GI10
11GS09
LF-05
11GM51
3445
LF-06
BELLINGER ROAD
LF-09
11GI12
11GS11
2654
11GM52
11GI14
11GS13
30GS105
705
610
LF-07
478-A
LF-08
30GS101
11GI15
30GS103
CLAY ROAD
3644
25GS01
3376
467
3493
3496
25GS06
3215
25GS09
3614
3810
INDUSTRIAL ROAD
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
682A
30GS163
681A
681
682
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557



	25-G-S009
26	
	26-G-GS03
27	
	27-G-S001
	27-G-S004
	27-G-S006
	27-G-S008
	27-G-S010
	27-G-S020

1 = FPDWS-FLORIDA PRIMARY DRINKIN

PENSACOLA BAY

APPR
CONC

1. HIGHLIGHTED
GROUNDWATER
GRAY WELLS
ANTIMONY EX
2. J VALUE INDI
3. ALL CONCENT
4. **ANALYTICAL** R
REFLECTIVE C
SEE DISCUSS

N

200 0 200
SCALE FEET

	25-G-S009	43.7 J
26		
	26-G-GS03	20.2 J
27		
	27-G-S001	61.1 J
	27-G-S004	48 J
	27-G-S006	38.5 J
	27-G-S008	43.6 J
	27-G-S010	61 J
	27-G-S020	50

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 — BUILDING
- TRENCH
- TRENCH (EXHIBITING SHALLOW GROUNDWATER ANTIMONY EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER ANTIMONY EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER ANTIMONY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER ANTIMONY EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER ANTIMONY EXCEEOANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

200 0 200
SCALE FEET

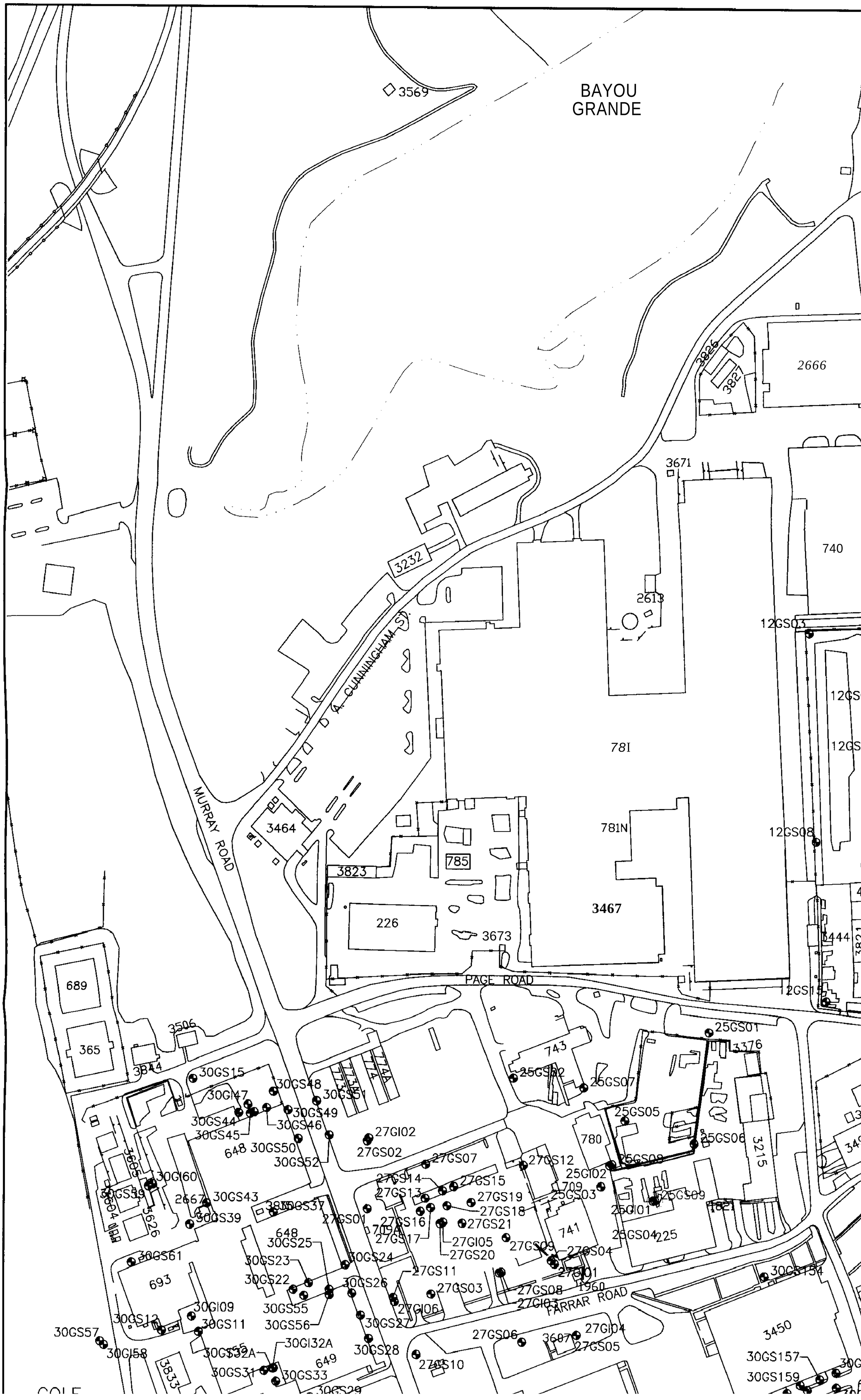
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 34
PHASE I SHALLOW GROUNDWATER
ANTIMONY EXCEEDANCES

Dr by: K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2PDW	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU GRANDE
3569
3826
3827
2666
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
12GS15
689
365
3506
3844
25GS01
3376
743
25GS02
25GS07
30GS15
30GS48
30GS51
30GI47
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30GS46
30GS45
25GS05
27GI02
27GS02
780
25GS06
648
30GS50
30GS52
27GS07
27GS12
3215
25GS08
30GI60
27GS14
27GS15
25GI02
709
30GS43
27GS13
27GS19
25GS03
25GS09
2667
30GS37
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
741
648
709A
27GS17
27GI05
25GS04
225
30GS25
27GS20
27GS09
27GS04
30GS61
30GS23
30GS24
27GS11
27GI01
693
30GS22
30GS26
27GS03
27GS08
1960
30GS154
30GI09
30GS55
27GI06
27GI03
FARRAR ROAD
30GS12
30GS11
30GS56
30GS27
27GI04
30GS57
27GS06
3607
3450
30GI58
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30GS28
27GS05
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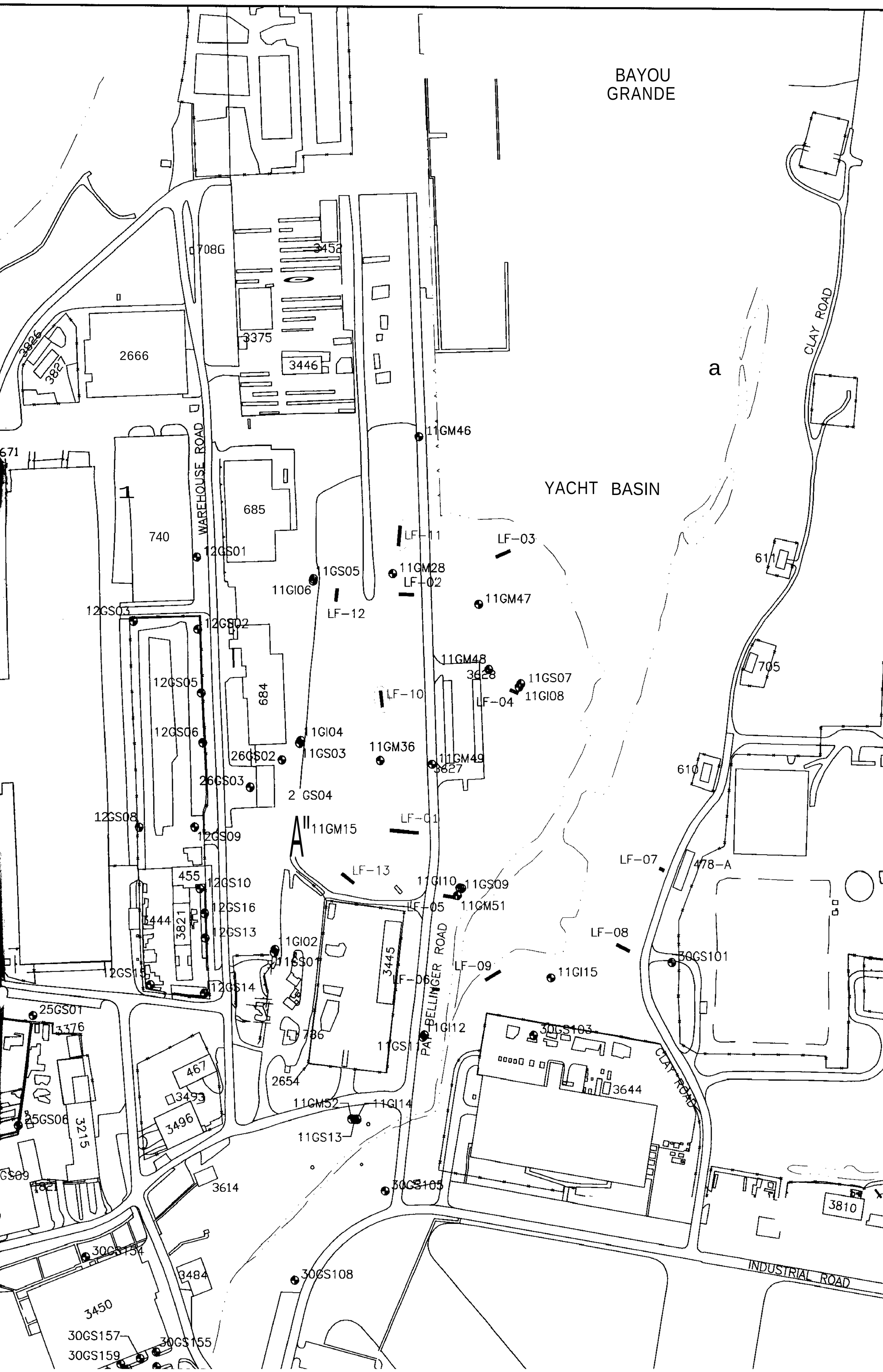
27GS10
30GS157
30GS159
3833


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAPPELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
671
740
685
684
455
3444
3821
3445
736
467
3493
3496
3215
3376
25GS01
25GS06
3614
3484
3450
30GS154
30GS157
30GS159
30GS155
30GS108
30GS105
30GS103
30GS101
3644
3810
478-A
611
610
705
11GM46
12GS01
11GS05
11GI06
11GM28
LF-11
LF-03
LF-02
11GM47
LF-12
12GS03
12GS02
11GM48
3628
11GS07
11GI08
LF-04
LF-10
12GS05
12GS06
11GI04
11GS03
11GM36
26GS02
26GS03
11GM49
3627
2 GS04
LF-01
12GS08
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11GM15
LF-13
12GS10
12GS16
12GS13
11GI10
11GS09
11GM51
LF-05
LF-07
LF-08
11GI02
11GS01
LF-06
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11GI14
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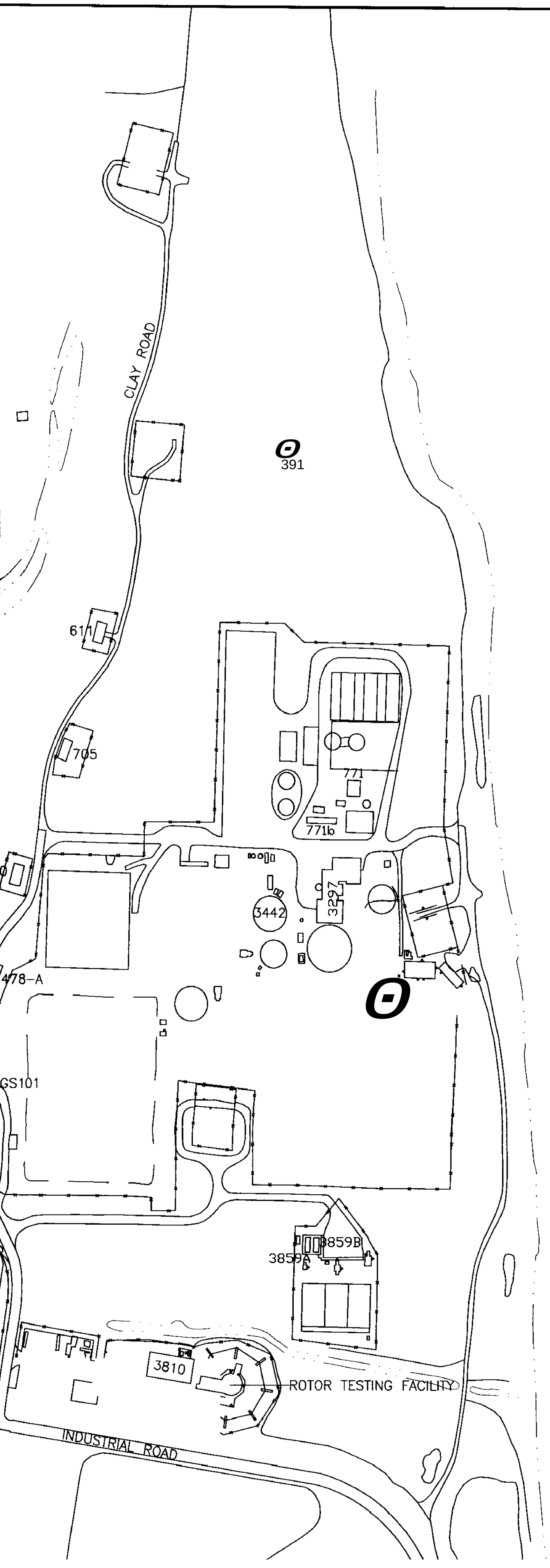
A
A'



PHASE I ARS	
SITE	MO
UNITS (μg	
11	
25	

1 = FPDWS-FL

PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER ARSENIC EXCEEDANCES

SITE	MONITORING WELL ID	Arsenic (As)
UNITS (µg/L)		50 (1)
11		
	11-G-LF01	135
	11-G-LF10	148
	11-G-LF11	80.2 J
	11-G-LF13	128 J
25		
	25-G-S009	85.7 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

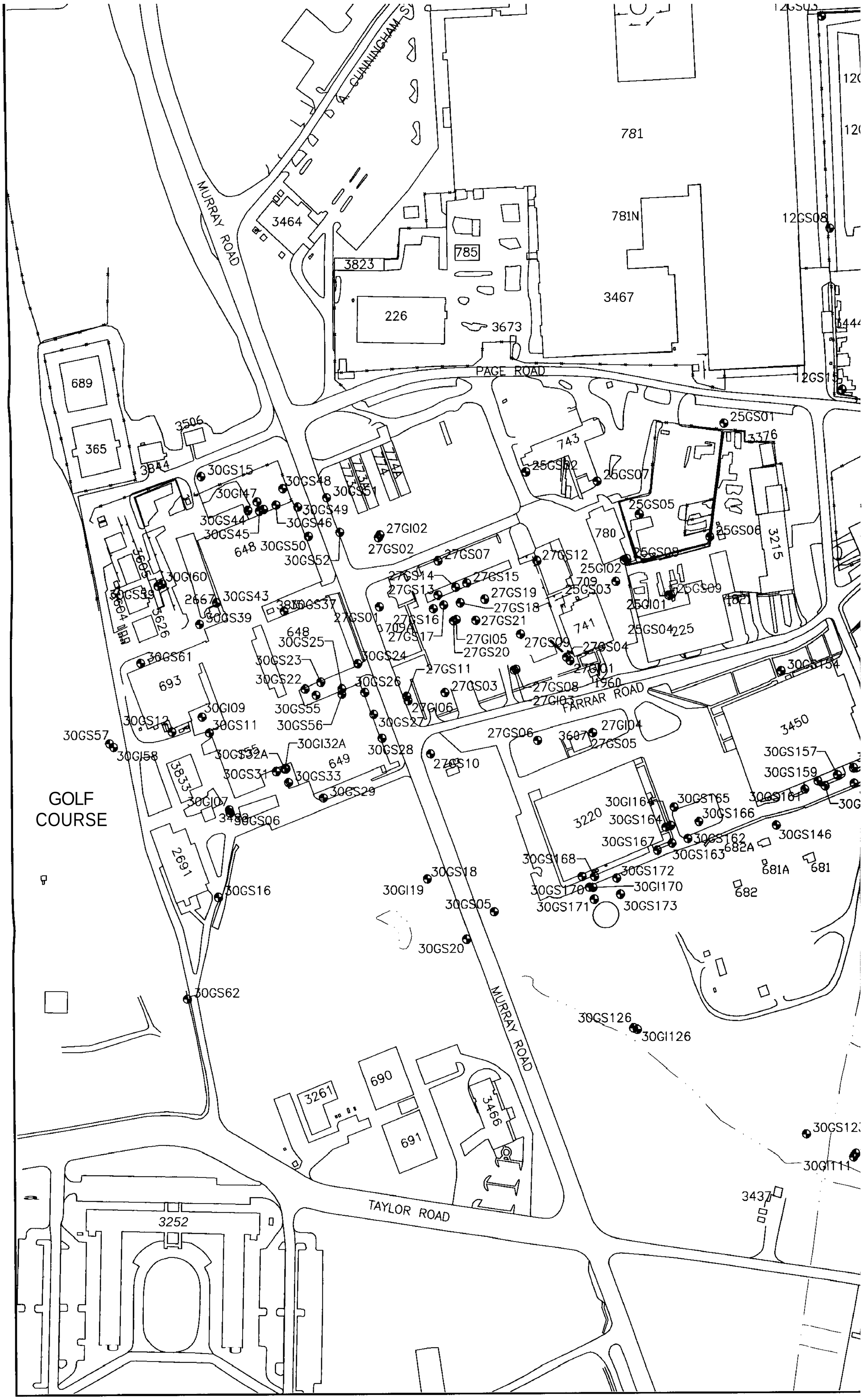
SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER ARSENIC EXCEEDANCES)


A. CUNNINGHAM
MURRAY ROAD
3464
3823
785
226
3673
3467
781
781N
12GS03
12GS08
12GS15
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS45
30GS46
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
27GI06
27GS01
709A
30GI60
30GS43
2667
30GS39
30GS37
3605
3604
3626
648
30GS25
30GS23
30GS22
30GS24
30GS26
30GS61
693
30GI09
30GS11
30GS12
30GS55
30GS56
30GS27
30GS57
30GI58
30GS32A
30GI32A
30GS31
30GS33
30GS29
649
30GS28
27GS10
3833
30GI07
30GS06
2691
30GS16
30GS18
30GI19
30GS05
30GS20
30GS62
MURRAY ROAD
FARRAR ROAD
TAYLOR ROAD
743
25GS02
25GS07
25GS05
25GS06
780
25GS08
25GI02
709
25GS03
25GS09
25GI01
741
25GS04
225
1960
3376
3215
3450
30GS154
30GS157
30GS159
30GS161
30GI164
30GS165
30GS166
3220
30GS164
30GS167
30GS162
30GS163
682A
30GS146
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
681A
681
682
30GS126
30GI126
30GS12
30GI111
3437
690
691
3261
3466
3252
GOLF
COURSE

12GS03
12GS02
LF-12
11GM48
3628
11GS07
11GI08
LF-10
LF-04
705
684
12GS05
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3627
610
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-07
478-A
LF-13
455
12GS10
11GI10
11GS09
LF-05
11GM51
12GS16
3444
3821
12GS13
1GI02
LF-08
30GS101
3445
LF-09
11GI15
12GS15
12GS14
LF-06
BELLINGER ROAD
25GS01
3376
11GI12
30GS103
CLAY ROAD
467
3493
3496
2654
3644
11GM52
11GI14
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3215
11GS13
25GS09
3614
30GS105
225
30GS154
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30GS108
INDUSTRIAL ROA
3450
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30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
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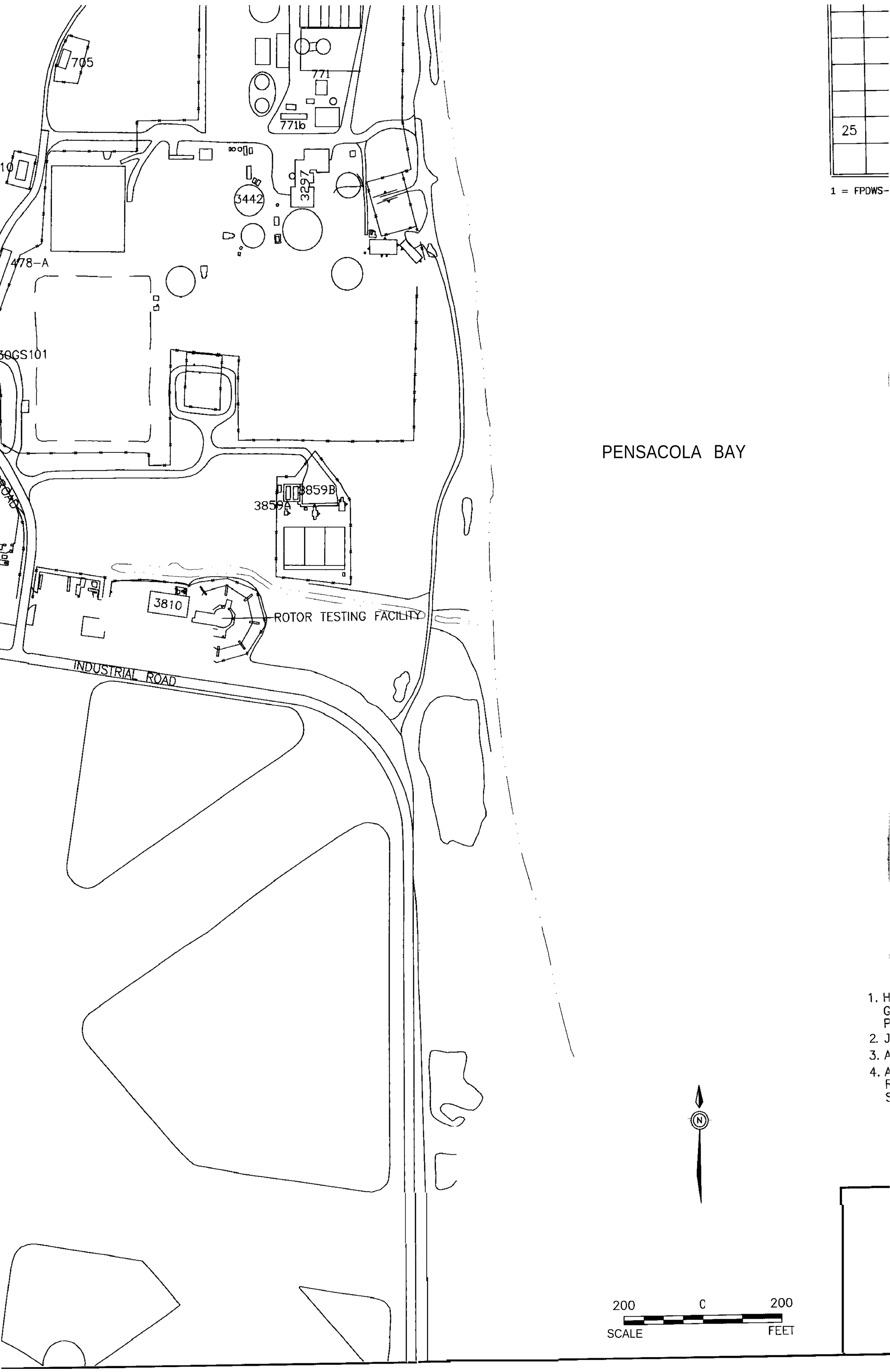
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557



1. H
G
P
2. J
3. A
4. A
R
S

11		
	11-G-LF01	135
	11-G-LF10	148
	11-G-LF1I	80.2 J
	11-G-LF13	128 J
25		
	25-G-S009	85.7 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SHALLOW GROUNDWATER ARSENIC EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER ARSENIC EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER ARSENIC CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER ARSENIC EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER ARSENIC EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

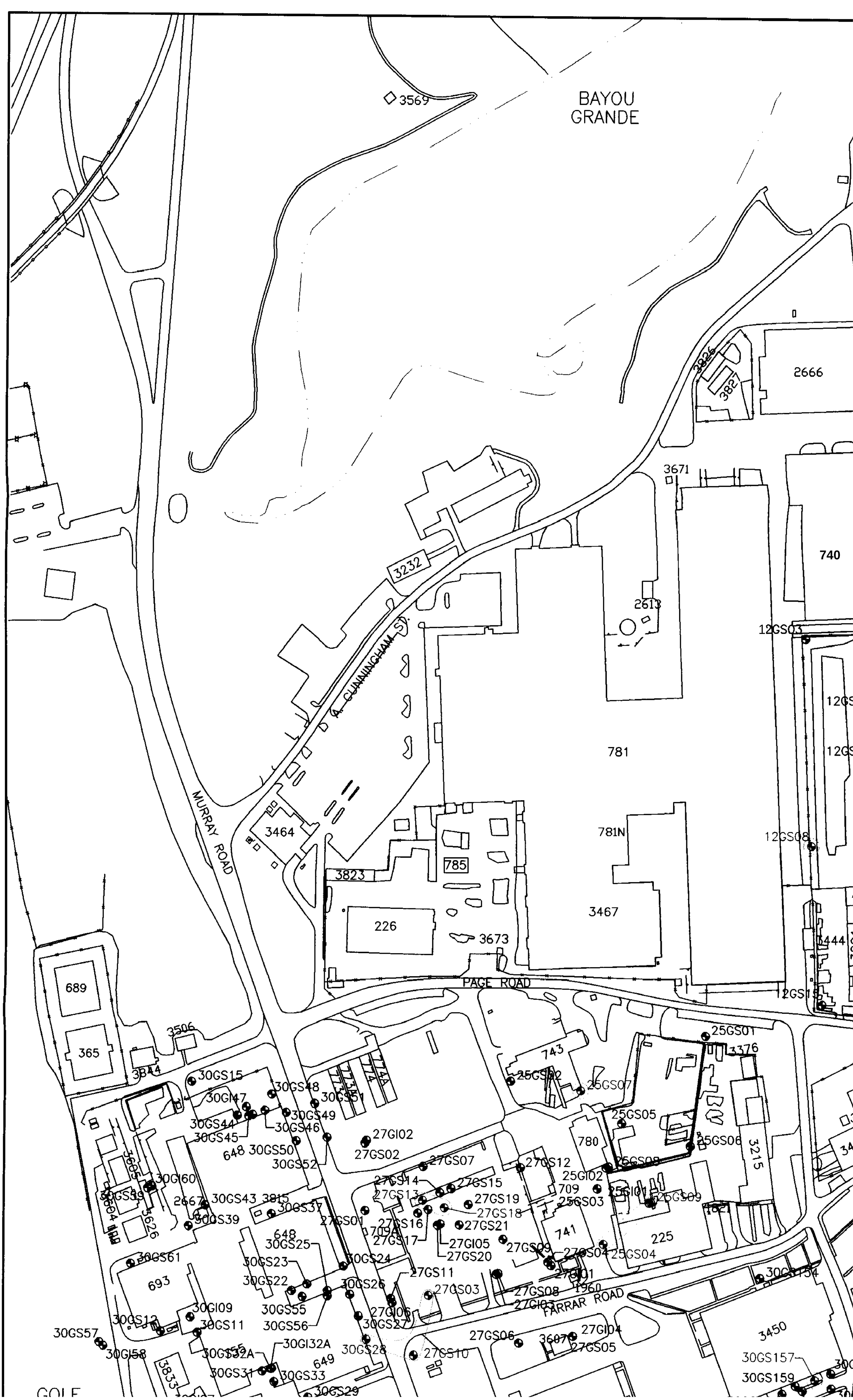
200 0 200
SCALE FEET

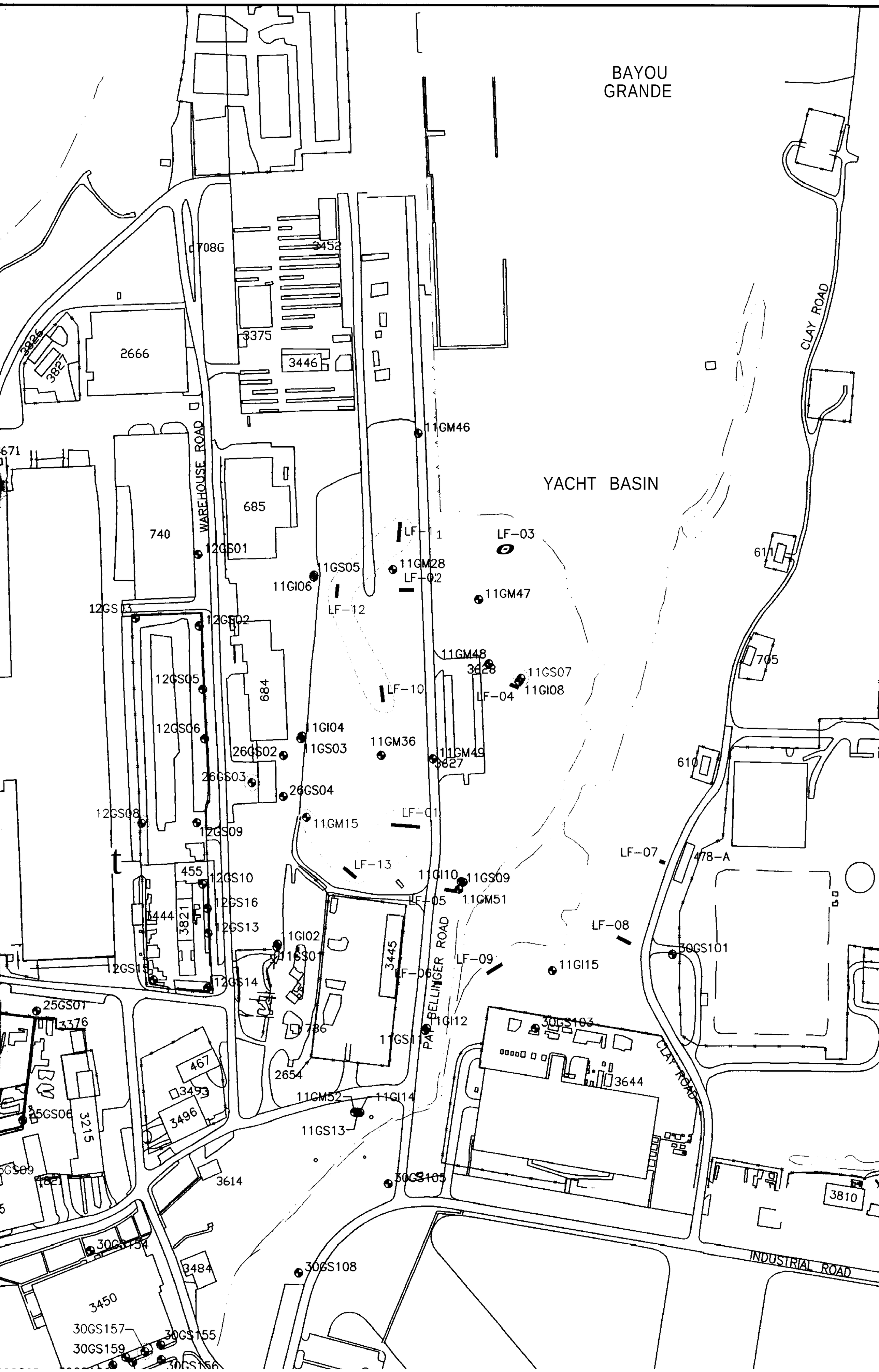
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 35
PHASE I SHALLOW GROUNDWATER
ARSENIC EXCEEDANCES

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG		Sheet 1
Dote: 07/09/97	DWG Name: 59OU2ARS	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
2666
3826
3827
3671
740
3232
A. CUNNINGHAM ST.
2613
12GS03
781
MURRAY ROAD
3464
781N
12GS08
785
3823
226
3467
3673
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
30GS15
30GS48
30GS47
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
648
30GS50
27GS02
30GS52
27GS07
27GS12
780
25GS05
25GS06
25GI02
709
25GS03
25GS09
30GI60
30GS39
2667
30GS43
3815
30GS37
30GS39
27GS01
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
709A
27GS17
27GI05
27GS20
741
225
30GS61
648
30GS25
30GS23
30GS24
27GS11
27GS04
25GS04
693
30GS22
30GS26
27GS03
27GS08
27GI03
FARRAR ROAD
30GI09
30GS55
27GI06
30GS12
30GS11
30GS56
30GS27
30GS57
30GI58
30GI32A
30GS28
27GS10
27GS06
27GI04
27GS05
3450
30GS157
30GS159
649
30GS31
30GS33
30GS29
3833
3626
3604
3605
3215


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAPE BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
671
685
740
12GS01
11GS05
11GI06
11GM28
LF-02
LF-11
LF-03
11GM47
LF-12
12GS03
12GS02
11GM48
3628
11GS07
11GI08
LF-04
LF-10
684
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12GS06
11GI04
11GS03
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11GM36
11GM49
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26GS04
12GS08
12GS09
11GM15
LF-01
LF-13
455
12GS10
12GS16
12GS13
3444
3821
11GI10
11GS09
LF-05
11GM51
LF-08
11GI02
11GS01
3445
LF-06
LF-09
11GI15
30GS101
12GS15
12GS14
25GS01
3376
736
11GI12
30GS103
11GS11
467
2654
3493
3496
11GM52
11GI14
3644
25GS06
3215
11GS13
30GS105
3614
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30GS108
3450
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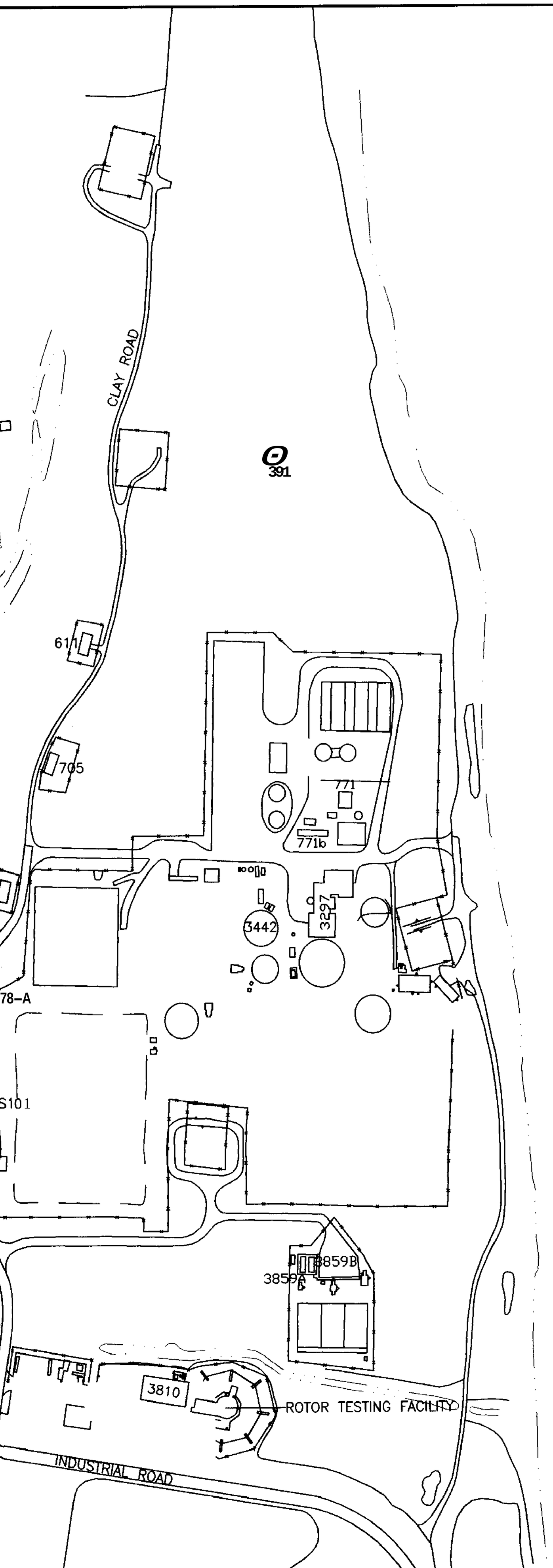
30GS159
30GS156
611
705
610
478-A
LF-07



PENSACOLA BAY

PHASE C	
SITE	
UNITS	
11	
12	
25	
26	
27	
30	

1 = FPDW

PHASE I SHALLOW GROUNDWATER CADMIUM EXCEEDANCES

SITE	MONITORING WELL ID	Cadmium (Cd)
UNITS (µg/L)		5 (1)
11		
	11-G-S007	7
	11-G-LF01	275
	11-G-LF10	4990
	11-G-LF11	47.9
	11-G-LF12	169
	11-G-LF13	236
12		
	12-G-GS08	9.6
25		
	25-G-S004	54.4
	25-G-S007	5.4
	25-G-S009	7.9
26		
	26-G-GS03	6.2
	11(26)-G-GM15	13.9
27		
	27-G-S003	5.1
	27-G-S010	19.6
	27-G-S013	63.6
	27-G-S018	8.3
30		
	30-G-S028	7.8
	30-G-S157	8.6

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

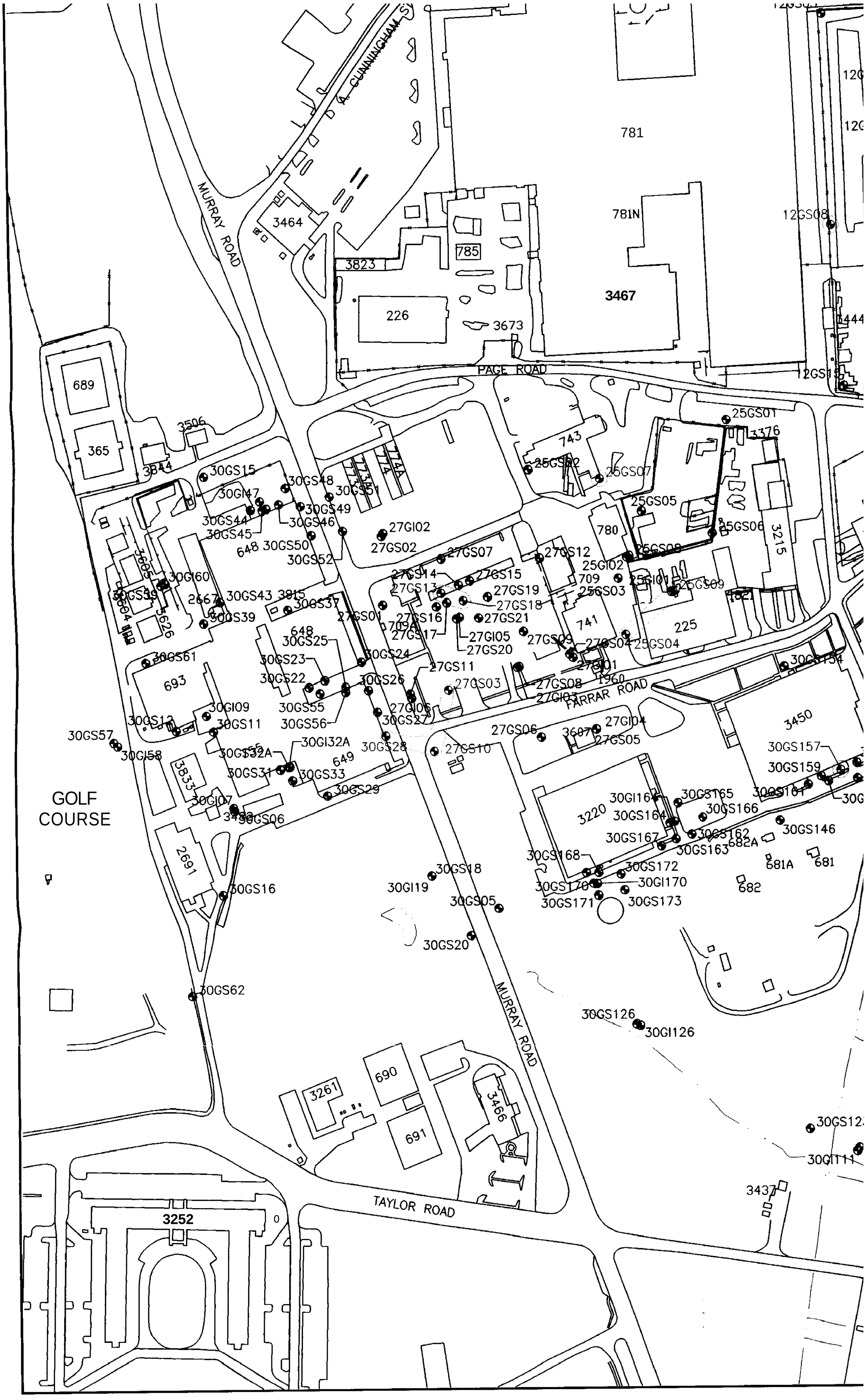
SURFACE WATER BODY

CLOSED LAGOON

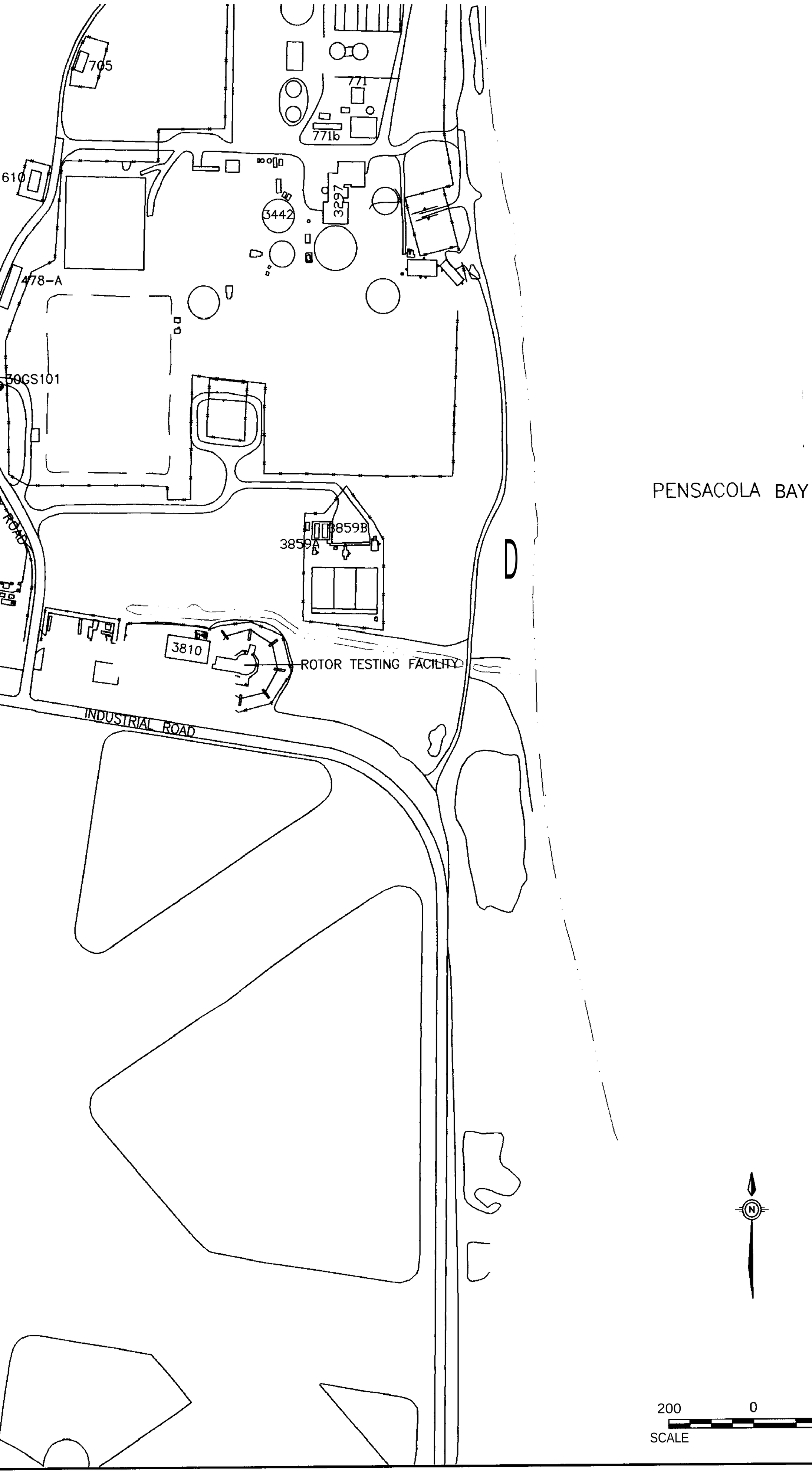
743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER CADMIUM EXCEEDANCES)


A. CUNNINGHAM ST
MURRAY ROAD
3464
785
3823
226
3673
781
781N
3467
PAGE ROAD
689
365
3506
3844
30GS15
30GS48
30GI47
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
743
25GS02
25GS07
25GS01
3376
25GS05
25GS06
780
25GI02
709
25GS03
25GI01
25GS09
3215
30GI60
30GS39
2667
30GS43
3815
30GS37
30GS39
27GS01
27GS14
27GS13
27GS15
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
25GS04
741
225
648
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS08
27GI03
27GI01
1960
FARRAR ROAD
30GS61
693
30GI09
30GS11
30GS55
30GS56
27GI06
30GS27
30GS12
30GS57
30GI58
30GS32A
30GI32A
30GS31
30GS33
649
30GS28
27GS10
27GS06
3607
27GI04
27GS05
3450
30GS157
30GS159
3833
30GI07
30GS29
30GS06
GOLF
COURSE
30GI164
30GS165
30GS161
3220
30GS164
30GS166
30GS167
30GS162
30GS163
682A
30GS146
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
681A
681
682
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
690
3261
691
3466
30GS12
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
LF-12
11GM48
3628
11GS07
11GI08
LF-04
LF-10
705
12GS05
684
12GS06
11GI04
11GS03
26GS02
11GM36
11GM49
3627
610
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-13
LF-07
478-A
455
12GS10
12GS16
12GS13
3444
3821
11GI10
11GS09
11GM51
LF-05
LF-08
11GI02
11GS01
3445
LF-06
LF-09
30GS101
11GI15
12GS15
12GS14
BELLINGER ROAD
25GS01
3376
11GI12
30GS103
736
11GS11
467
3493
2654
3644
CLAY ROAD
11GM52
11GI14
3496
25GS06
3215
11GS13
25GS09
3614
30GS105
225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557



1. HIGHLIGHTED
SHALLOW GRO
GRAY WELLS
CADMIUM EXC
2. J VALUE INDI
3, ALL CONCENT
4, ANALYTICAL F
REFLECTIVE C
SEE DISCUSS

	25-G-S009	7.9
	26-G-GS03	*6 2*
	11(26)-G-GM15	13.9
27		
	27-G-S003	5.1
	27-G-S010	19.6
	27-G-S013	63.6
	27-G-S018	8.3
30		
	30-G-S028	7.8
	30-G-S157	8.6

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- TRENCH (EXHIBITING SHALLOW GROUNDWATER CADMIUM EXCEEDANCES)
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER CADMIUM EXCEEDANCES).
- APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER CADMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER CADMIUM EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER CADMIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

200 0 200
SCALE FEET

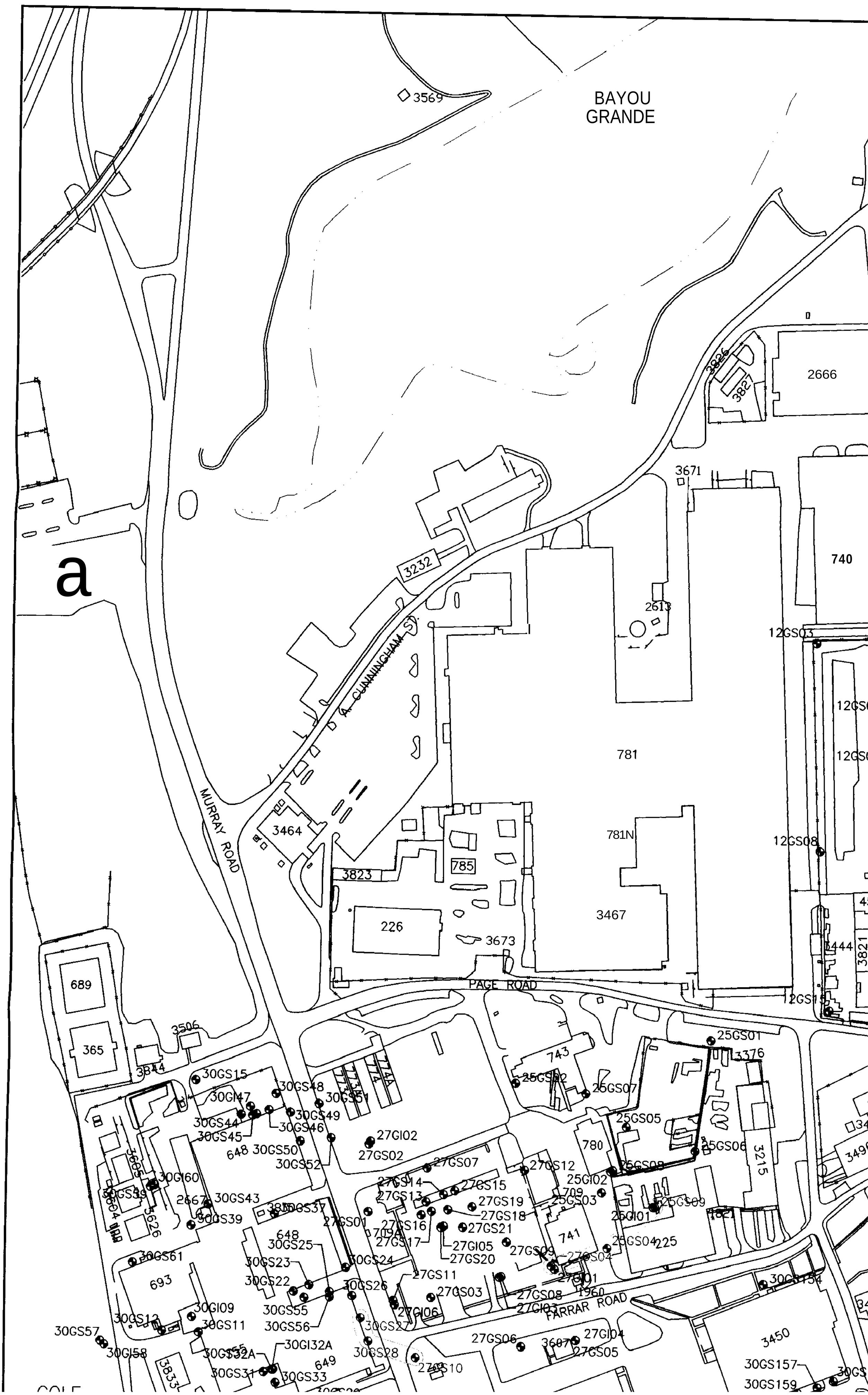
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 36
PHASE I SHALLOW GROUNDWATER
CADMIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2CAD	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES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BAYOU GRANDE
3569
3826
3827
2666
3671
740
3232
2613
12GS03
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
226
3467
3673
3444
PAGE ROAD
12GS15
689
365
3506
3844
25GS01
3376
743
25GS02
25GS07
30GS15
30GS48
30GS51
30GI47
30GS49
30GS44
30GS46
30GS45
25GS05
27GI02
648
30GS50
27GS02
780
25GS06
3215
30GS52
27GS07
27GS12
25GS08
30GI60
27GS14
27GS15
25GI02
27GS13
709
27GS19
25GS03
30GS43
2667
27GS18
25GS09
30GS39
27GS01
27GS16
27GS21
25GI01
709A
741
27GS17
27GI05
25GS04
225
30GS61
648
30GS25
27GS20
27GS09
27GS04
30GS23
30GS24
693
30GS22
30GS26
27GS11
27GS03
27GI01
27GS08
1960
30GS54
30GI09
30GS55
27GI06
27GI03
FARRAR ROAD
30GS12
30GS11
30GS56
30GS27
30GS57
27GS06
3607
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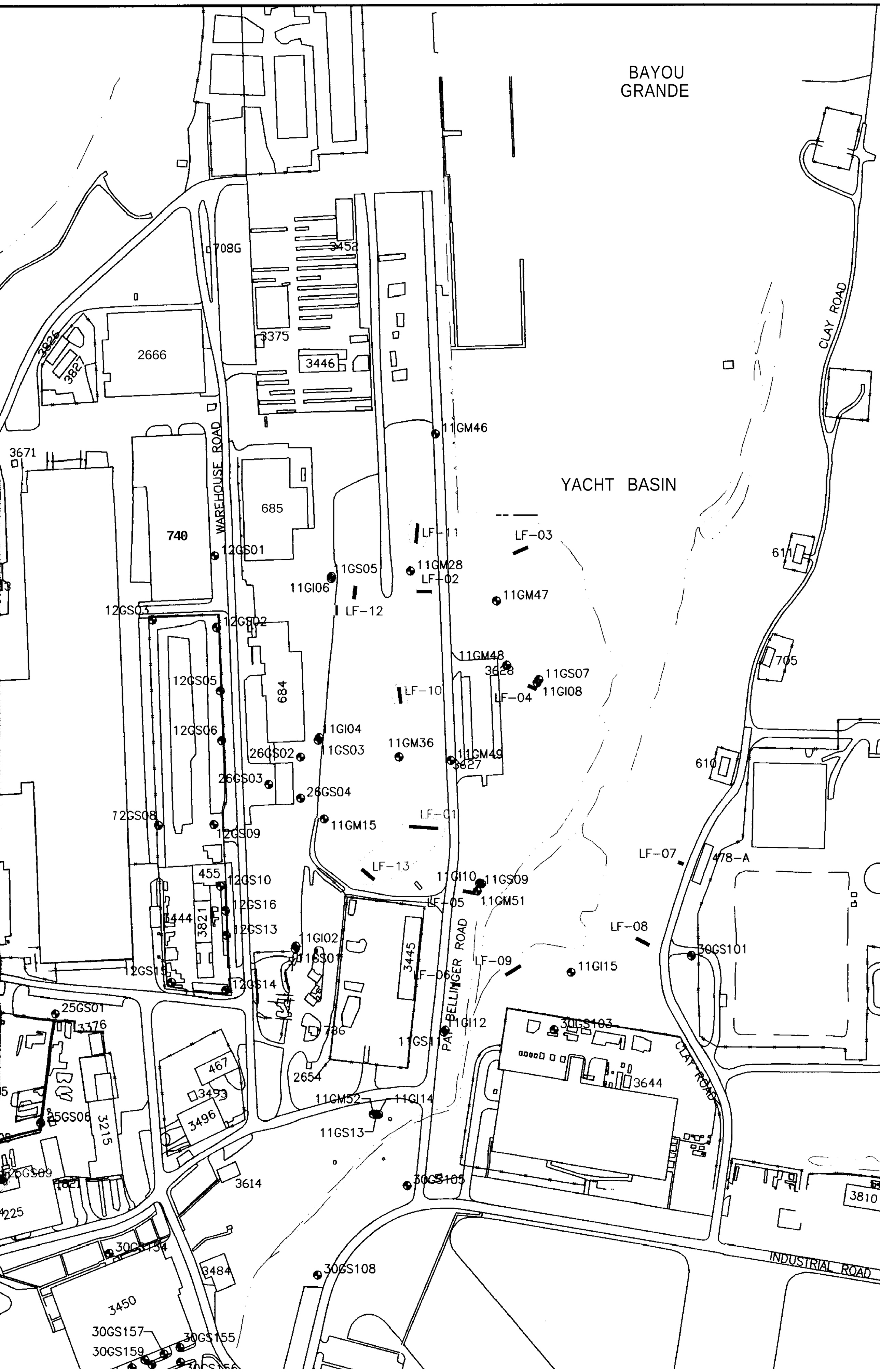
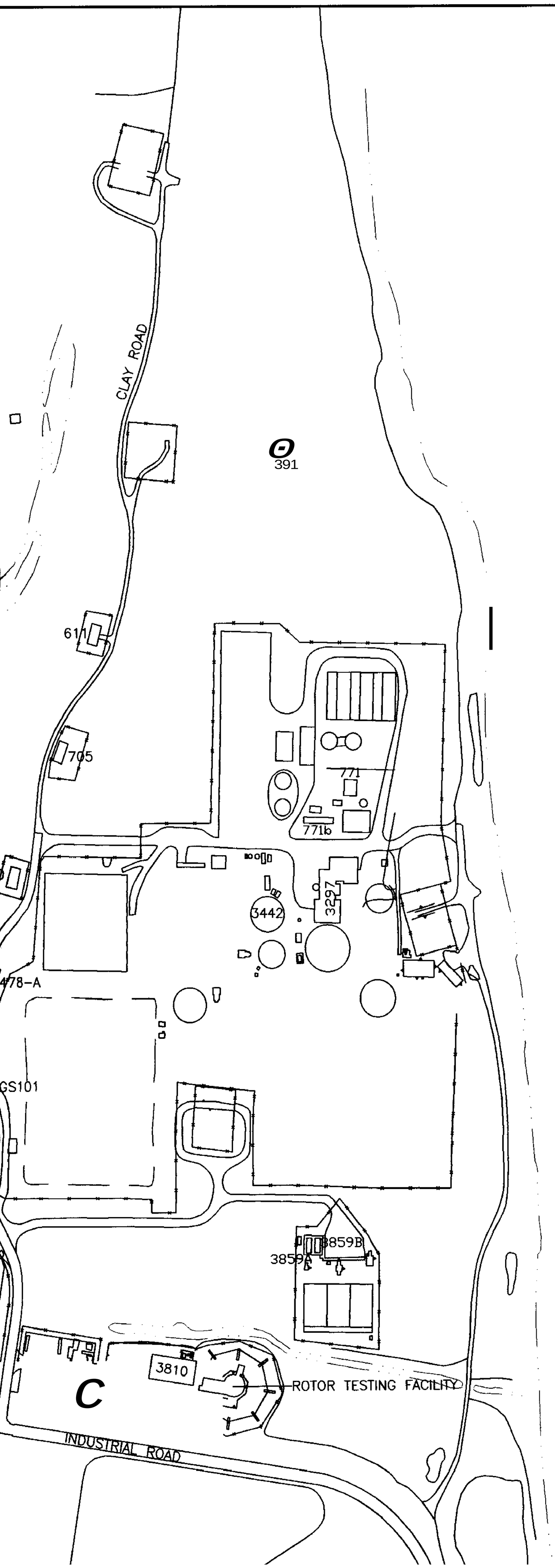
27GS10
30GS157
30GS159


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
685
740
684
455
3444
3821
3445
467
3493
3496
3215
3376
25GS01
25GS06
25GS09
3225
3614
3484
3450
30GS157
30GS159
30GS155
30GS154
30GS108
30GS105
30GS103
30GS101
3644
3810
478-A
611
610
705
11GM46
LF-11
LF-03
11GM28
LF-02
11GM47
1GS05
11GI06
LF-12
12GS01
12GS03
12GS02
12GS05
12GS06
12GS08
12GS09
12GS10
12GS16
12GS13
12GS15
12GS14
11GM48
3628
11GS07
11GI08
LF-10
LF-04
1GI04
11GS03
26GS02
26GS03
26GS04
11GM36
11GM49
3627
11GM15
LF-01
LF-13
11GI10
11GS09
LF-05
11GM51
LF-08
LF-09
11GI15
1GI02
11GS01
LF-06
11GI12
11GS11
2654
11GM52
11GI14
11GS13
LF-07



PHASE I SH CHROM	
SITE	MONITO
UNITS (µg/L	
11	
	11-
	11-
	11
	11
25	
	25
	25
27	
	27
	27
30	
	30
	30

1 = FPDWS-FLORI

PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES

SITE	MONITORING WELL ID	Chromium (Cr)
UNITS (µg/L)		100 (1)
11		
	11-G-LF01	872
	1I-G-LF10	2290
	11-G-LF11	1190
	11-G-LF13	261
25		
	25-G-S004	14700
	25-G-S009	574
27		
	27-G-S004	2170
	27-G-S010	5810
30		
	30-G-S027	1380
	30-G-S028	715

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES)

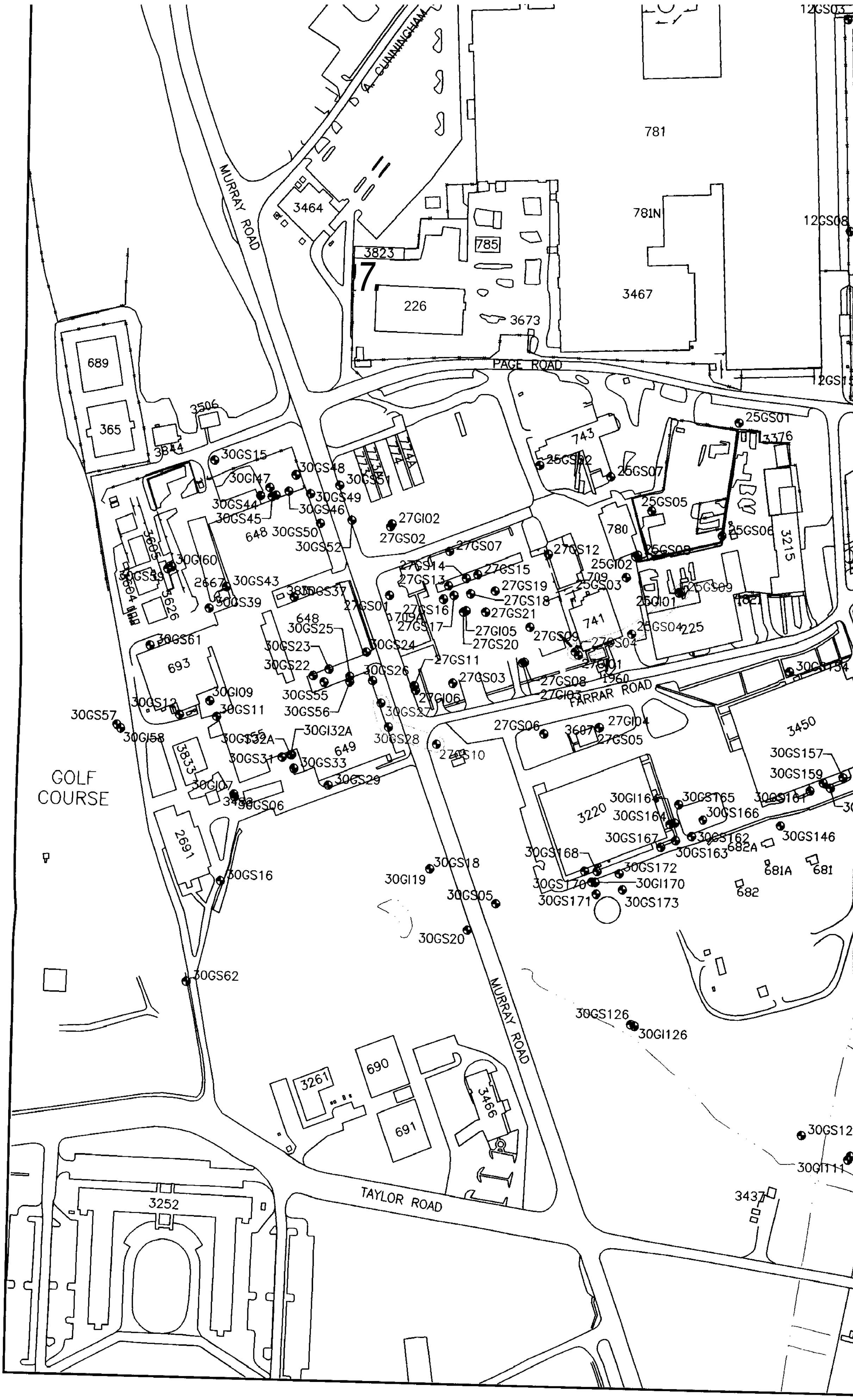
FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW


A. CUNNINGHAM
MURRAY ROAD
3464
3823
785
781
781N
3467
226
3673
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
25GS02
25GS07
25GS05
25GS06
780
3215
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
25GI02
709
25GS03
25GS09
25GI01
25GS04
225
741
30GI60
30GS43
30GS39
30GS37
27GS01
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS08
27GI03
1960
FARRAR ROAD
30GS154
30GS61
693
30GI09
30GS55
30GS56
30GS12
30GS11
30GS57
30GI58
30GS155
30GI32A
30GS31
30GS33
649
30GS28
27GS10
27GS06
3607
27GI04
27GS05
3450
30GS157
30GS159
3833
30GI07
30GS29
30GS06
GOLF
COURSE
30GI164
30GS165
30GS161
3220
30GS164
30GS166
30GS167
30GS162
30GS146
682A
30GS163
30GS168
30GS172
681A
681
30GS170
30GI170
682
30GS171
30GS173
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
MURRAY ROAD
30GS126
30GI126
690
3261
691
3466
30GS12
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
LF-12
12GS05
684
11GM48
3628
11GS07
11GI08
LF-10
LF-04
705
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3627
610
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-13
LF-07
478-A
455
12GS10
11GI10
11GS09
11GM51
LF-05
12GS16
3444
3821
12GS13
LF-08
1GI02
11GS01
3445
30GS101
LF-09
11GI15
12GS15
12GS14
LF-06
BELLINGER ROAD
25GS01
3376
11GI12
30GS103
736
11GS11
CLAY ROAD
467
3644
2654
3493
11GM52
11GI14
25GS06
3496
3215
11GS13
25GS09
3614
30GS105
381
3484
INDUSTRIAL ROAD
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
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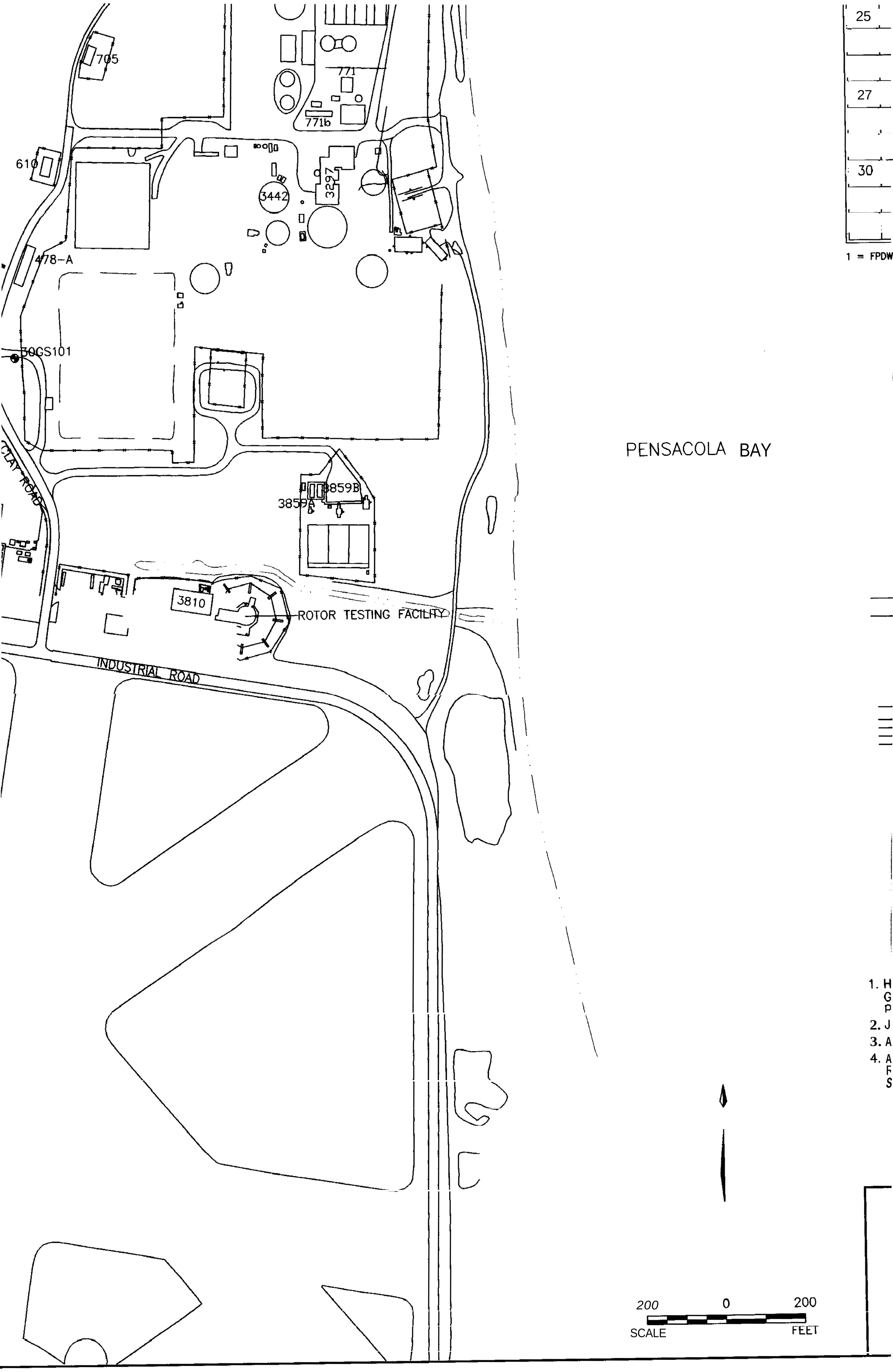
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557


705
771
771b
610
3442
3297
478-A
30GS101
3859B
3859A
3810
ROTOR TESTING FACILITY
INDUSTRIAL ROAD
PENSACOLA BAY
25
27
30
200
0
200
SCALE
FEET

	11-G-LF13	261
25		
	25-G-S004	14700
	25-G-S009	574
27		
	27-G-S004	2170
	27-G-S010	5810
30		
	30-G-S027	1380
	30-G-S028	715

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER CHROMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES, GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER CHROMIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

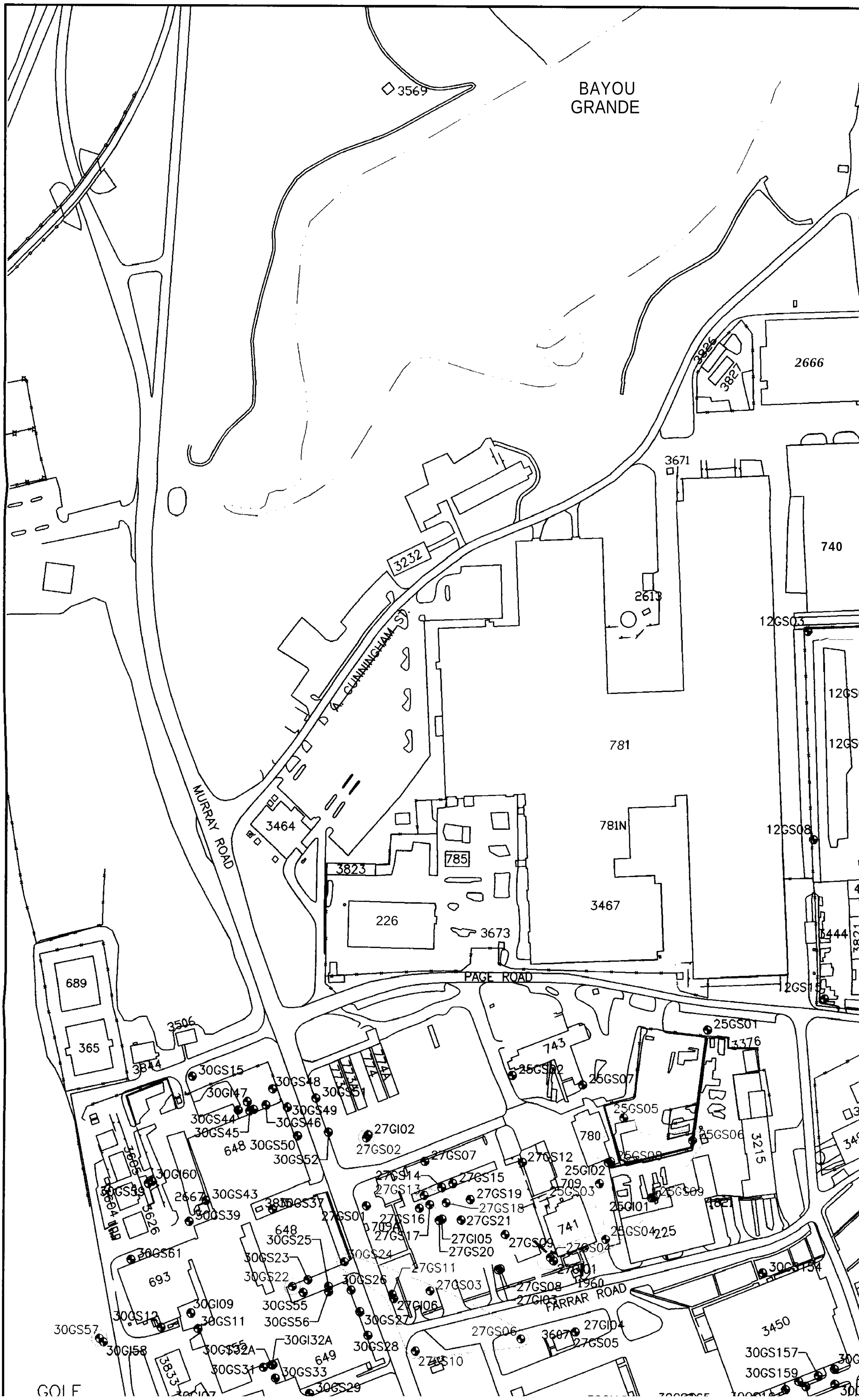
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 37
PHASE I SHALLOW GROUNDWATER
CHROMIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2CHR	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
25GS01
3376
743
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
27GS02
25GS07
25GS05
780
25GS06
3215
648
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30GS52
27GS07
27GS12
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25GS03
25GS09
2667
30GS43
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
741
25GS04
225
648
30GS25
27GS17
27GI05
27GS09
27GS04
30GS61
30GS23
30GS24
27GS20
27GS11
30GS154
693
30GS22
30GS26
27GS03
27GS08
27GI01
1960
30GI09
30GS55
27GI06
FARRAR ROAD
30GS12
30GS11
30GS56
30GS27
27GI04
30GS57
30GS28
27GS06
3607
27GS05
3450
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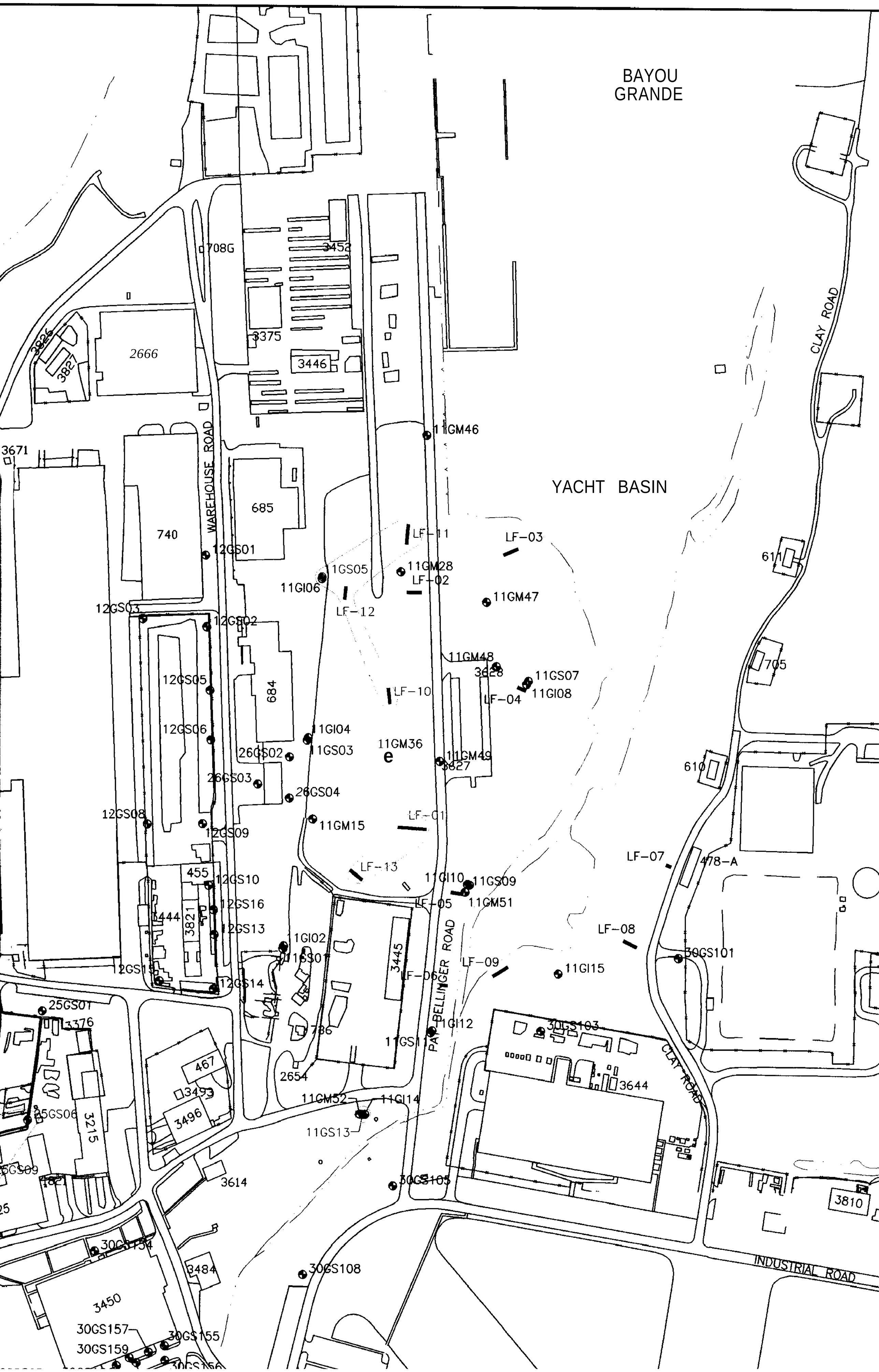
649
27GS10
30GS157
30GS31
30GS33
30GS159
30GS29
GOLF


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
685
740
684
455
3821
3444
467
3493
3496
3215
3376
25GS01
25GS06
25GS09
3614
3484
3450
30GS157
30GS159
30GS155
30GS156
30GS154
30GS108
30GS105
30GS103
30GS101
3644
3810
3445
2654
736
478-A
705
610
611
11GM46
12GS01
12GS03
12GS02
12GS05
12GS06
12GS08
12GS09
12GS10
12GS16
12GS13
12GS15
12GS14
11GS05
11GI06
11GM28
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11GM49
26GS02
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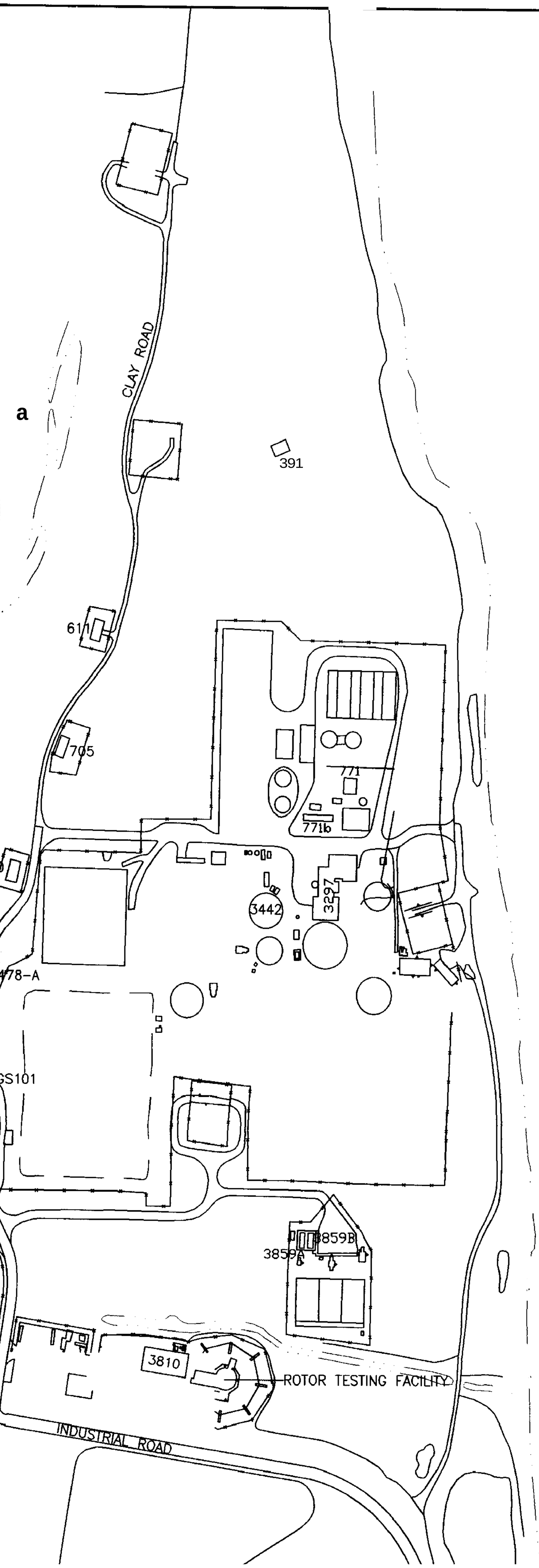
LF-08
LF-09



PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER LEAD EXCEEDANCES

SITE	(MONITORING WELL ID	Lead (Pb)
UNITS (µg/L)		15 (1)
11		
	11-G-S005	30
	11-G-S013	17
	11-G-LF01	5060
	11-G-LF10	50200
	11-G-LF11	803
	11-G-LF12	21700
	11-G-LF13	11600
25		
	25-G-S003	28.8 J
	25-G-S004	334 J
	25-G-S005	16
	25-G-S006	50
	25-G-S008	55.9
	25-G-S009	308 3
27		
	27-G-S002	20.4/92 .8
	27-G-S003	122 J
	27-e-S004	12% J
	27-G-S006	32.4
	27-G-S010	44.8 3
	27-G-SUI 1	58.5
	27-G-S013	45.6
	27-G-S018	20.3 J
30		
	30-G-SUO6	34.8 3
	30-G-S022	52.5 J
	30-G-S024	15 J
	30-G-S057	96 J
	30-G-S062	17 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER LEAD EXCEEDANCES)

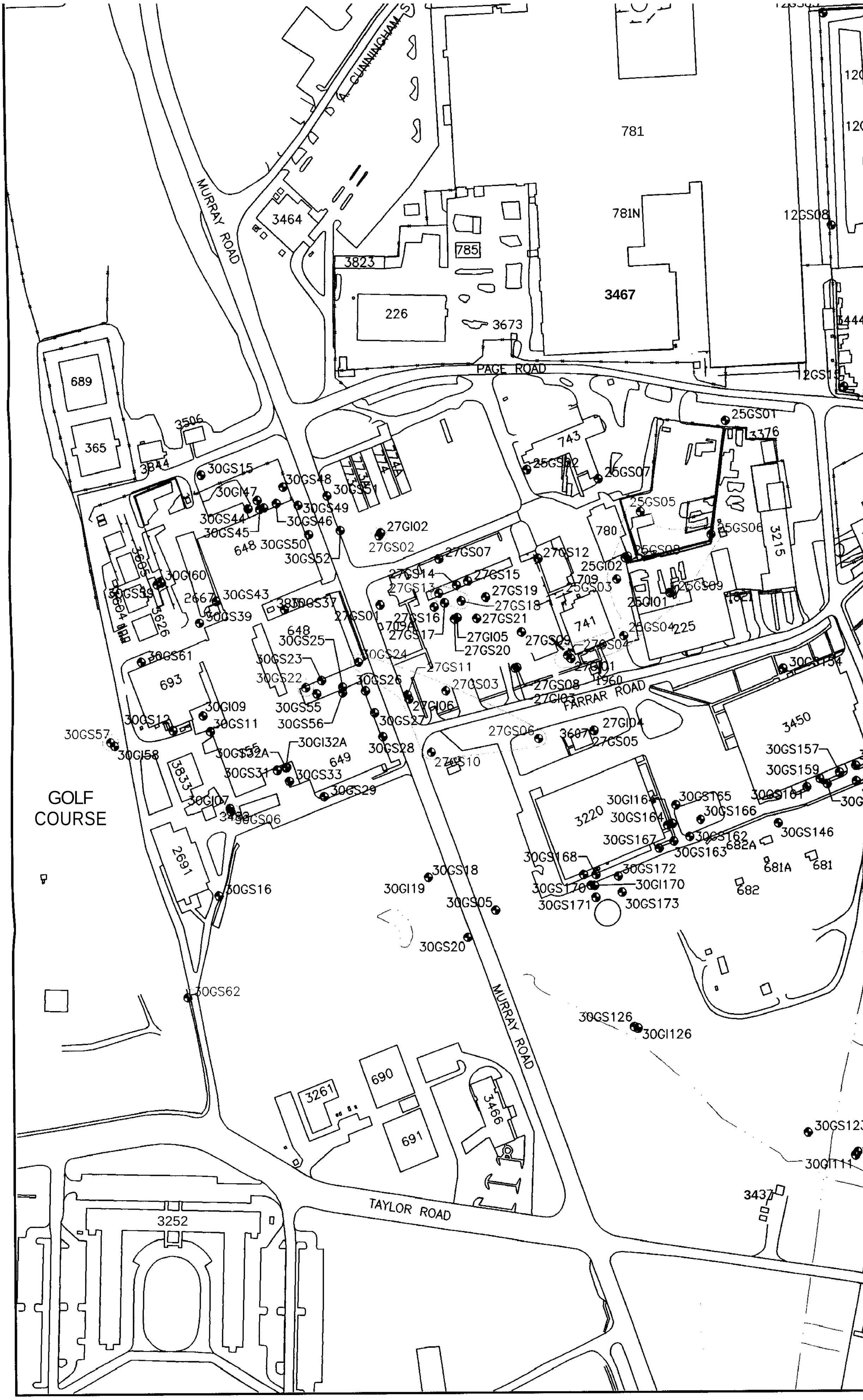
FENCE LINE

ROADS

SIDEWALKS

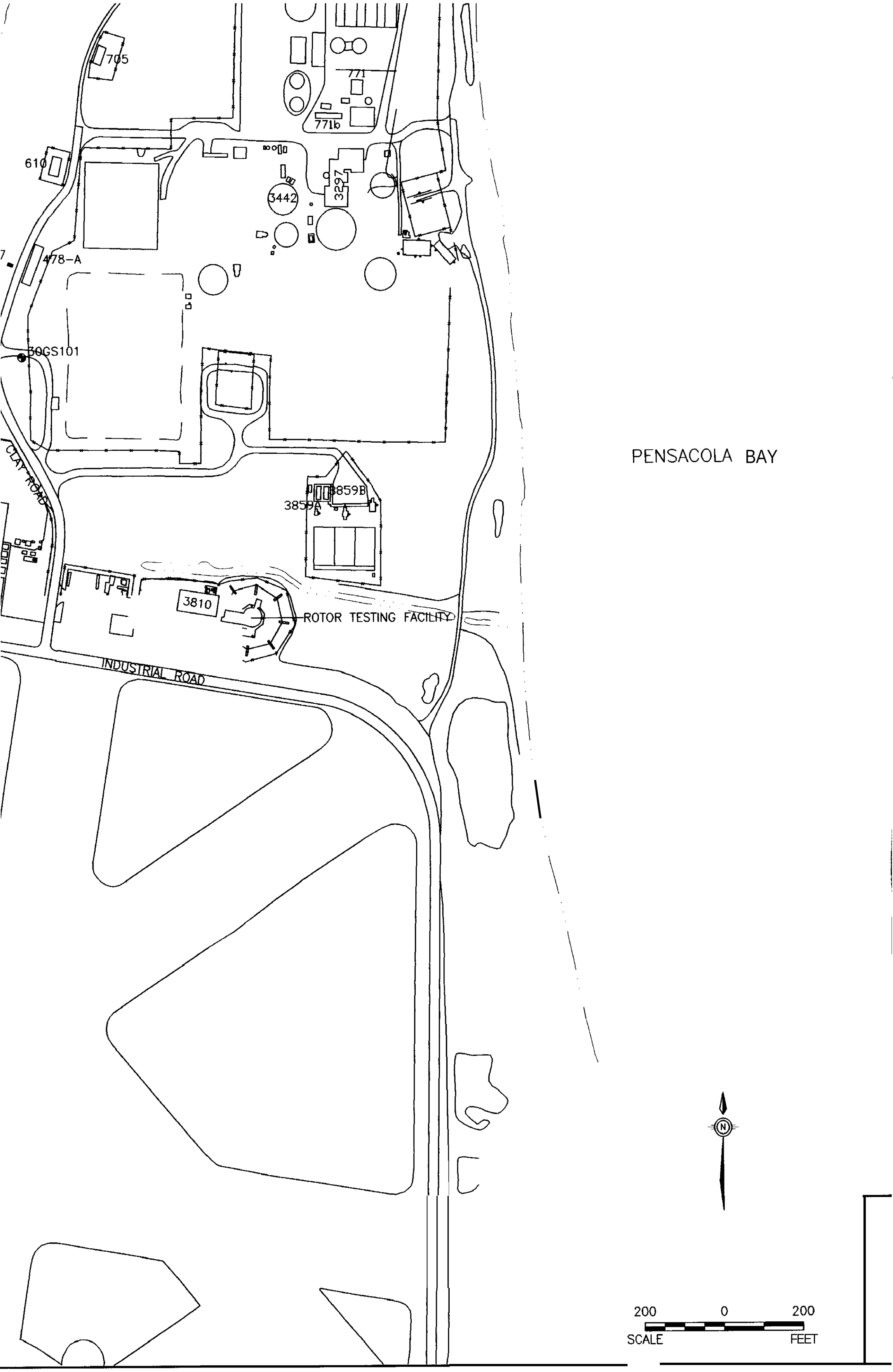
GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW


MURRAY ROAD
A. CUNNINGHAM
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3467
3464
3823
226
3673
689
365
3506
3844
743
741
780
709
225
693
3450
3220
2691
690
691
3261
3466
3252
3437
12GS08
25GS01
3376
25GS02
25GS07
25GS05
25GS06
3215
25GI02
25GI01
25GS03
25GS09
25GS04
27GI02
27GS02
27GS07
27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
27GI04
27GS05
27GS06
27GS10
30GS15
30GS48
30GS51
30GS49
30GS47
30GS44
30GS46
30GS45
30GS50
30GS52
30GI60
30GS43
30GS39
30GS37
30GS25
30GS24
30GS23
30GS22
30GS26
30GS55
30GS56
30GS27
30GS28
30GI09
30GS11
30GS12
30GS57
30GI58
30GI32A
30GS31
30GS33
30GS29
30GI07
30GS06
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
30GS157
30GS159
30GI164
30GS165
30GS166
30GS164
30GS167
30GS162
30GS163
30GS146
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
682A
681A
681
682
30GI111

12GS03
12GS02
LF-12
11GM48
3628
11GS07
11GI08
LF-04
LF-10
705
12GS05
684
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3627
610
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-07
478-A
455
12GS10
LF-13
11GI10
11GS09
11GM51
LF-05
12GS16
3444
3821
12GS13
LF-08
11GI02
11GS01
3445
LF-06
LF-09
11GI15
30GS101
12GS15
12GS14
BELLINGER ROAD
25GS01
3376
11GI12
30GS103
736
11GS11
CLAY ROAD
467
2654
3644
3493
11GM52
11GI14
25GS06
3496
11GS13
3215
25GS09
3614
30GS105
3810
225
30GS154
INDUSTRIAL ROAD
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
3189
30GS123
30GS111
30GI111
3437
30GS118
3557

GII 26


705
771
771b
610
3442
3297
478-A
30GS101
CLAY ROAD
3859B
3859A
3810
ROTOR TESTING FACILITY
INDUSTRIAL ROAD
PENSACOLA BAY
N
200
0
200
SCALE
FEET

	25-G-S008	55.9
	25-G-S009	308 J
27		
	27-G-S002	20.4/92.8
	27-G-S003	122 J
	27-G-5004	128 J
	27-G-S006	32.4
	27-G-SO10	44.8 J
	27-G-SO11	58.5
	27-G-S013	45.6
	27-G-S018	20.3 J
30		
	30-G-S006	54.8 3
	30-G-S022	52.5 J
	30-G-S024	35 J
	30-e-SO57	96 J
	30-G-S062	17 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER LEAD EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER LEAD EXCEEDANCES),

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER LEAD EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER LEAD EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

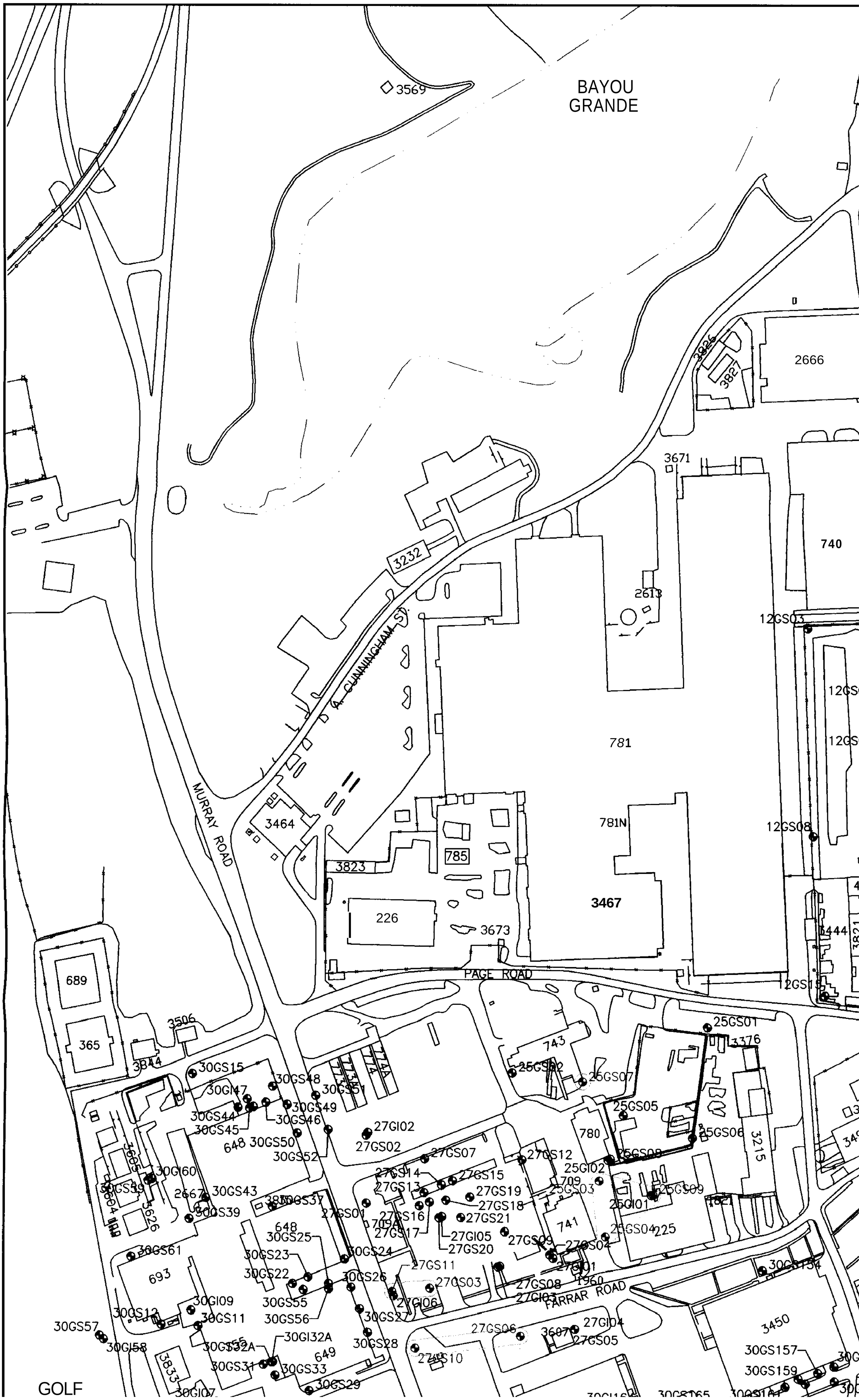
200 0 200
SCALE FEET

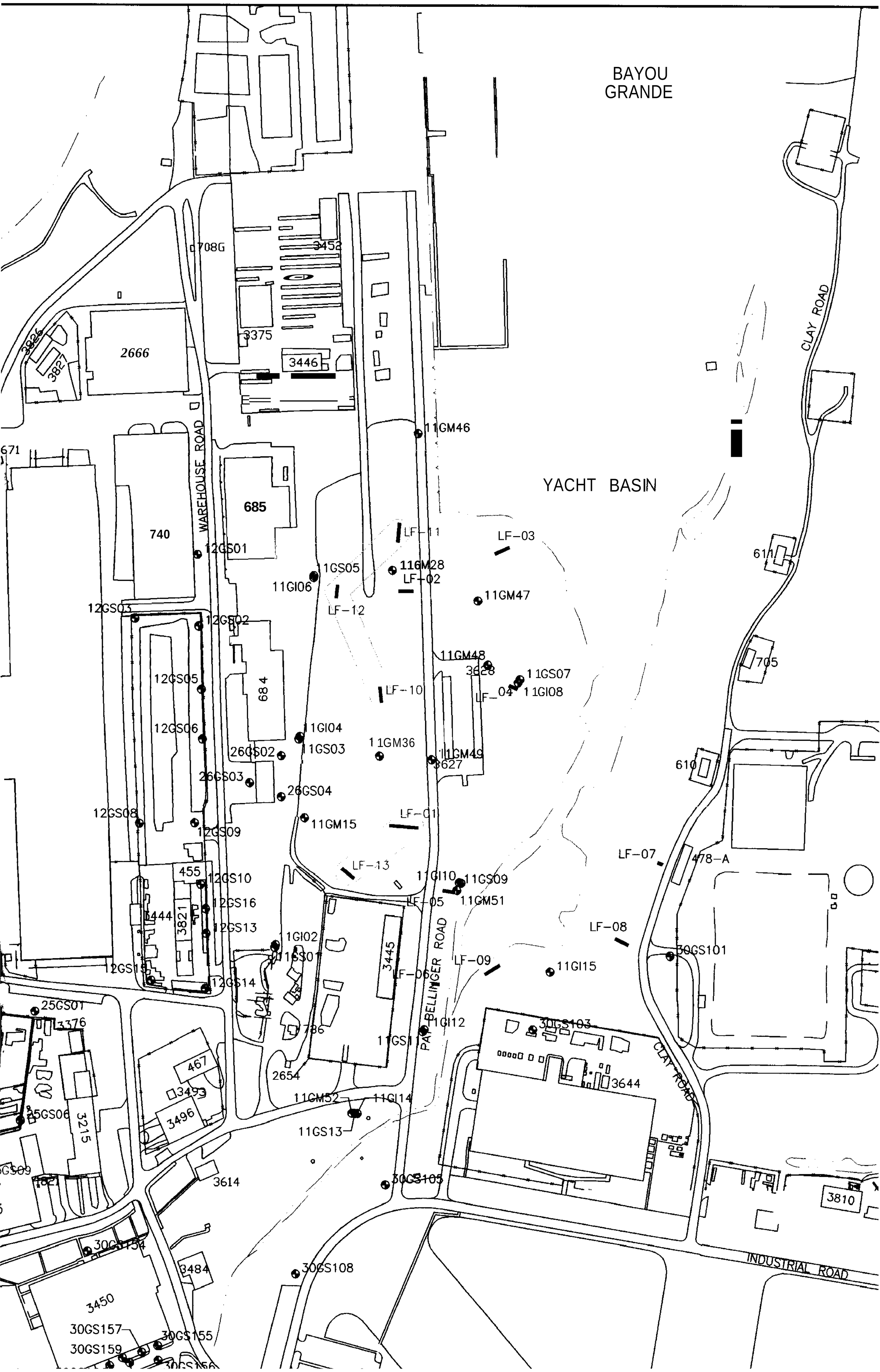
NAS PENSACOLA
OPERABLE UNIT 2

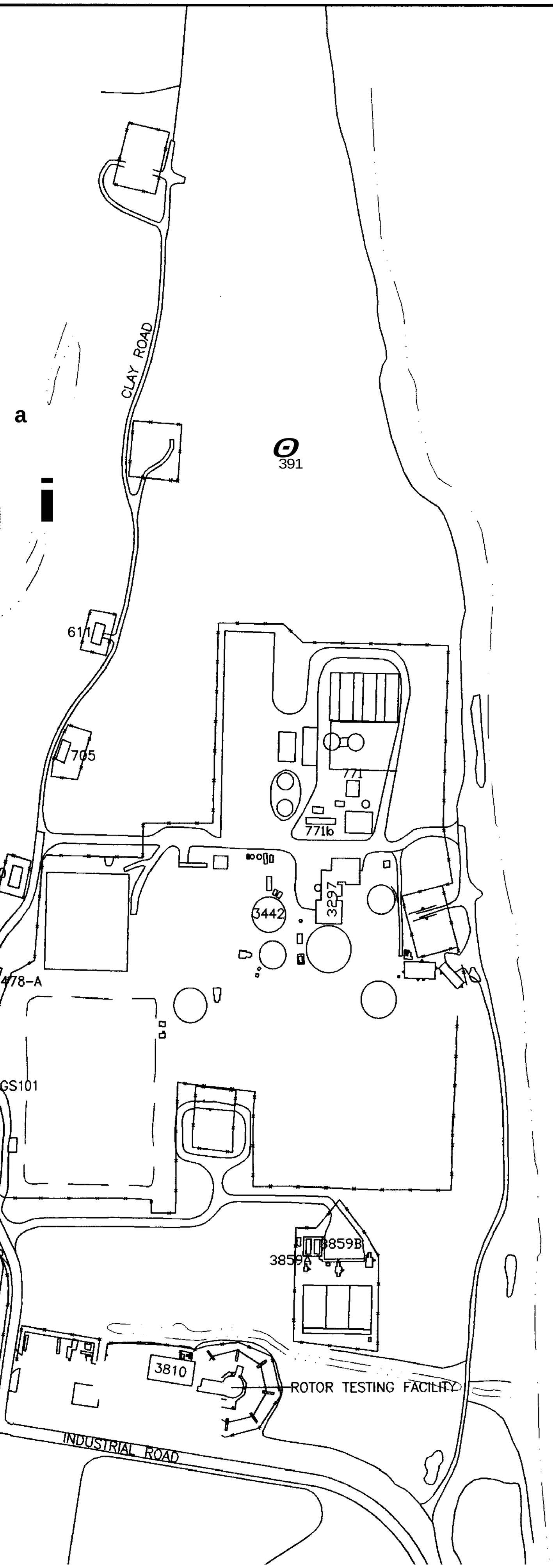
FIGURE 38
PHASE I SHALLOW GROUNDWATER
LEAD EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2LED	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
3232
2613
12GS03
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
30GS15
30GS48
30GS47
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
648
30GS50
27GS02
30GS52
27GS07
27GS12
780
25GS05
25GS06
3215
30GI60
27GS14
27GS15
25GI02
709
27GS13
27GS19
25GS03
25GS09
30GS43
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
741
25GS04
225
648
709A
27GS17
27GI05
27GS09
27GS04
30GS25
27GS20
30GS61
30GS23
30GS24
27GS11
30GS154
693
30GS22
30GS26
27GS03
27GS08
27GI01
1960
FARRAR ROAD
30GI09
30GS55
27GI06
27GI03
30GS12
30GS11
30GS56
30GS27
30GS57
27GS06
27GI04
3450
30GI58
30GS28
27GS05
30GI32A
649
30GS31
30GS33
27GS10
30GS157
30GS159
GOLF


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
2666
3826
3827
708G
3452
3375
3446
11GM46
671
740
685
12GS01
11GS05
11GI06
116M28
LF-11
LF-03
LF-02
11GM47
LF-12
12GS03
12GS02
11GM48
3628
11GS07
11GI08
LF-04
LF-10
12GS05
684
12GS06
11GI04
11GS03
26GS02
11GM36
11GM49
3627
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
611
705
610
478-A
LF-07
455
12GS10
12GS16
12GS13
3444
3821
LF-13
11GI10
11GS09
11GM51
LF-05
LF-08
1GI02
11GS01
3445
LF-06
LF-09
11GI15
30GS101
12GS15
12GS14
25GS01
3376
786
11GI12
30GS103
11GS11
467
2654
3493
3644
11GM52
11GI14
25GS06
3215
3496
11GS13
3614
30GS105
3810
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159



PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER VANADIUM EXCEEDANCES

SITE	MONITORING WELL ID	Vanadium (V)
UNITS (µg/L)		49 (1)
11		
	11-G-LF01	787
	11-G-LF10	1330
	11-G-LF11	143
	11-G-LF12	67.7
	11-G-LF13	98.4
25		
	25-G-S003	98.4
	25-G-S004	199
	25-G-S007	71.8
	25-G-S009	241
27		
	27-G-S003	88
	27-G-S006	53.7
	27-G-S010	57.7
	27-G-S011	66.2

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

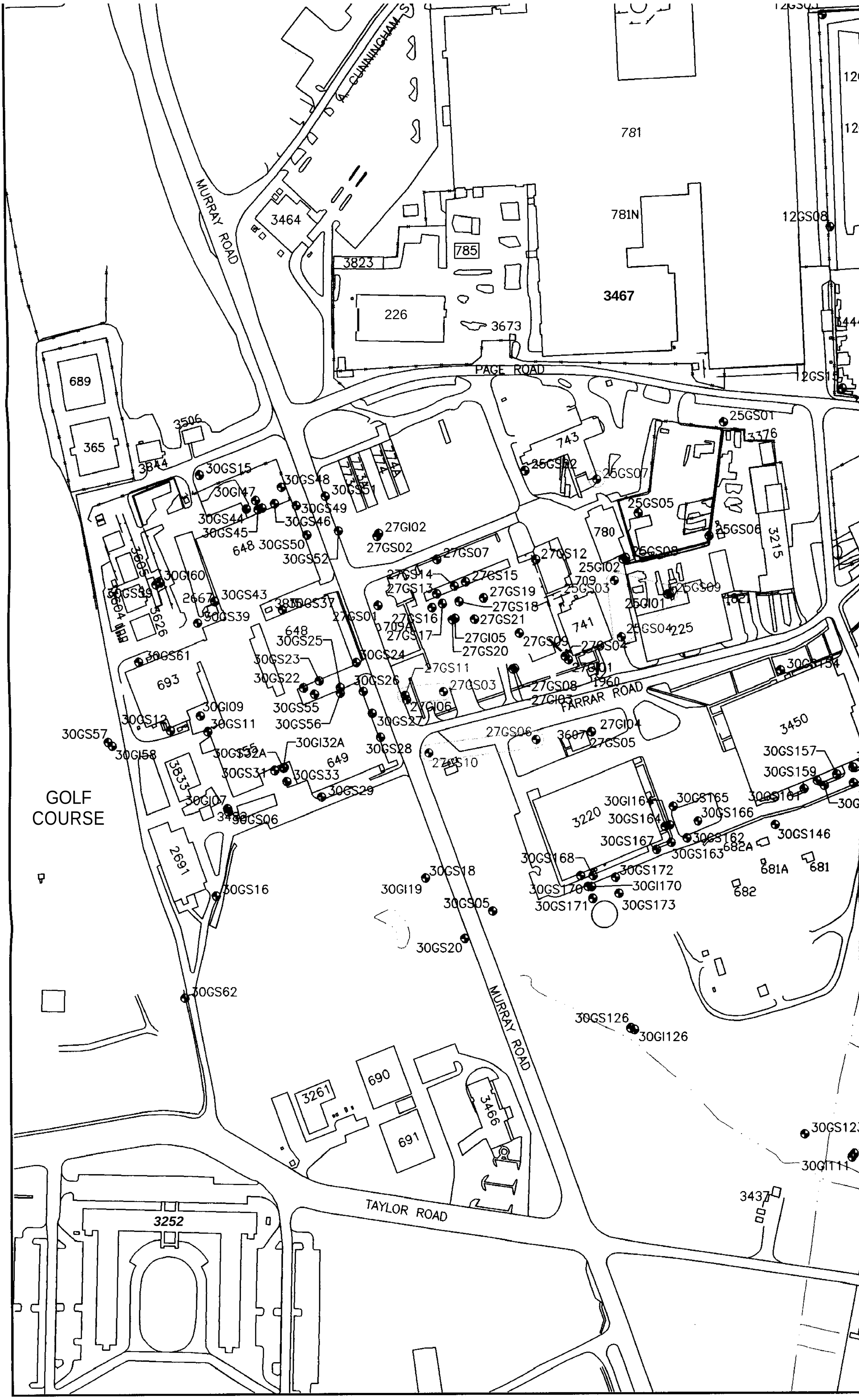
TRENCH

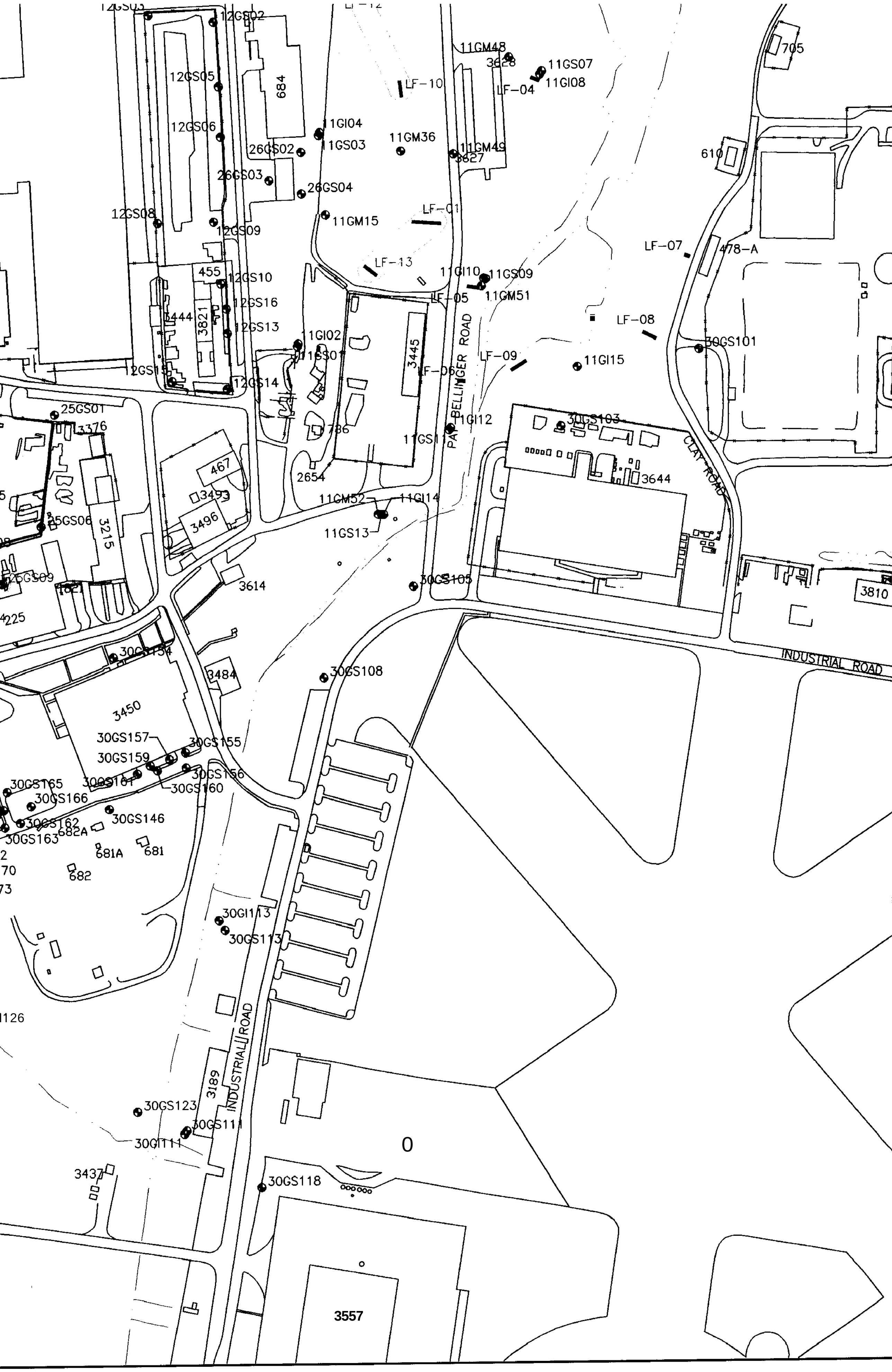
TRENCH (EXHIBITING SHALLOW GROUNDWATER VANADIUM EXCEEDANCES)

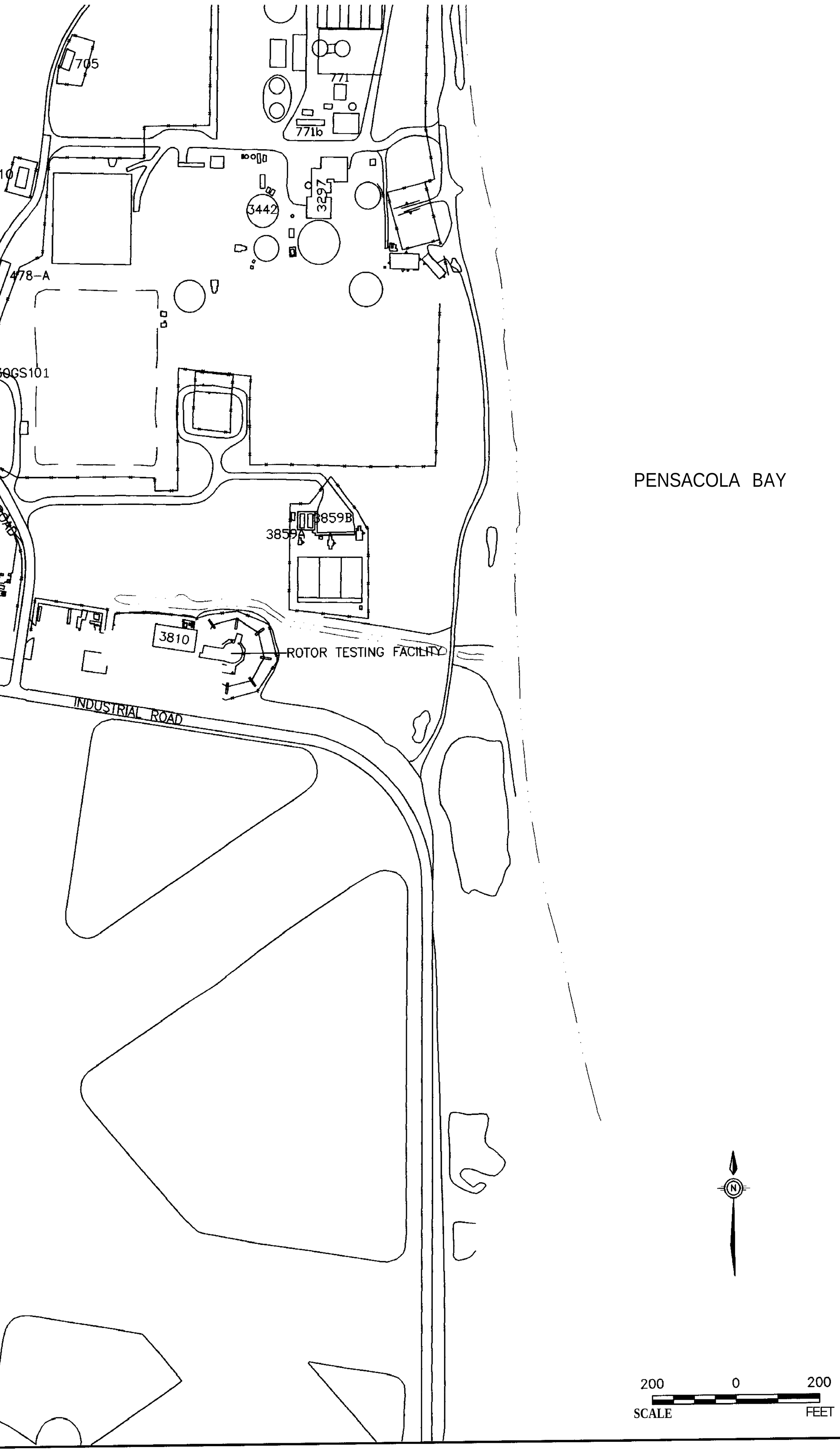
FENCE LINE

ROADS

SIDEWALKS


MURRAY ROAD
A. CUNNINGHAM
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
3467
785
3823
3464
226
3673
689
365
3506
3844
743
741
780
709
3376
25GS01
25GS02
25GS07
25GS05
25GS06
25GS08
25GI02
25GS03
25GS09
25GI01
25GS04
225
27GI02
27GS02
27GS07
27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GS01
27GS11
27GS03
27GS08
27GI03
27GI06
27GS06
27GI04
27GS05
27GS10
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
30GI60
30GS43
30GS39
30GS37
30GS25
30GS23
30GS22
30GS24
30GS26
30GS61
693
30GI09
30GS55
30GS56
30GS11
30GS12
30GS57
30GI58
30GS27
30GS28
30GI32A
30GS32A
30GS31
30GS33
30GS29
649
30GI07
30GS06
3833
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
30GS123
30GI111
3437
3450
30GS157
30GS159
30GI165
30GS165
30GS161
30GS166
30GS164
30GS167
30GS162
30GS163
30GS146
682A
681A
681
682
30GS168
30GS172
30GS170
30GI170
30GS171
30GS173
3220
690
691
3261
3466
3252


12GS03
12GS02
12GS05
684
12GS06
1GI04
1GS03
26GS02
26GS03
26GS04
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
1GI02
1GS01
12GS15
12GS14
LF-10
11GM48
3628
11GS07
11GI08
LF-04
11GM36
11GM49
3627
LF-01
LF-13
11GI10
11GS09
LF-05
11GM51
3445
LF-06
PAT BELLINGER ROAD
LF-09
11GI15
LF-08
LF-07
705
610
478-A
30GS101
25GS01
3376
786
11GS11
11GI12
30GS103
CLAY ROAD
3644
467
3493
3496
2654
11GM52
11GI14
11GS13
25GS06
3215
25GS09
1821
3614
30GS105
3810
4225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
1126
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
0
3437
30GS118
3557



1. HI
SH
AE
2. J
3. AL
4, AN
RE
SE

		98.4
	25-G-S007	71.8
27		
	27-G-S006	53.7
	27-G-S010	57.7
	27-G-S011	66.2

ION

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SHALLOW GROUNDWATER VANADIUM EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER VANADIUM EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER VANADIUM CONCENTRATIONS EXCEEDING THE FLORIDA GROUNDWATER GUIDANCE CONCENTRATION,

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I SHALLOW GROUNDWATER VANADIUM EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF PHASE I SHALLOW GROUNDWATER VANADIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

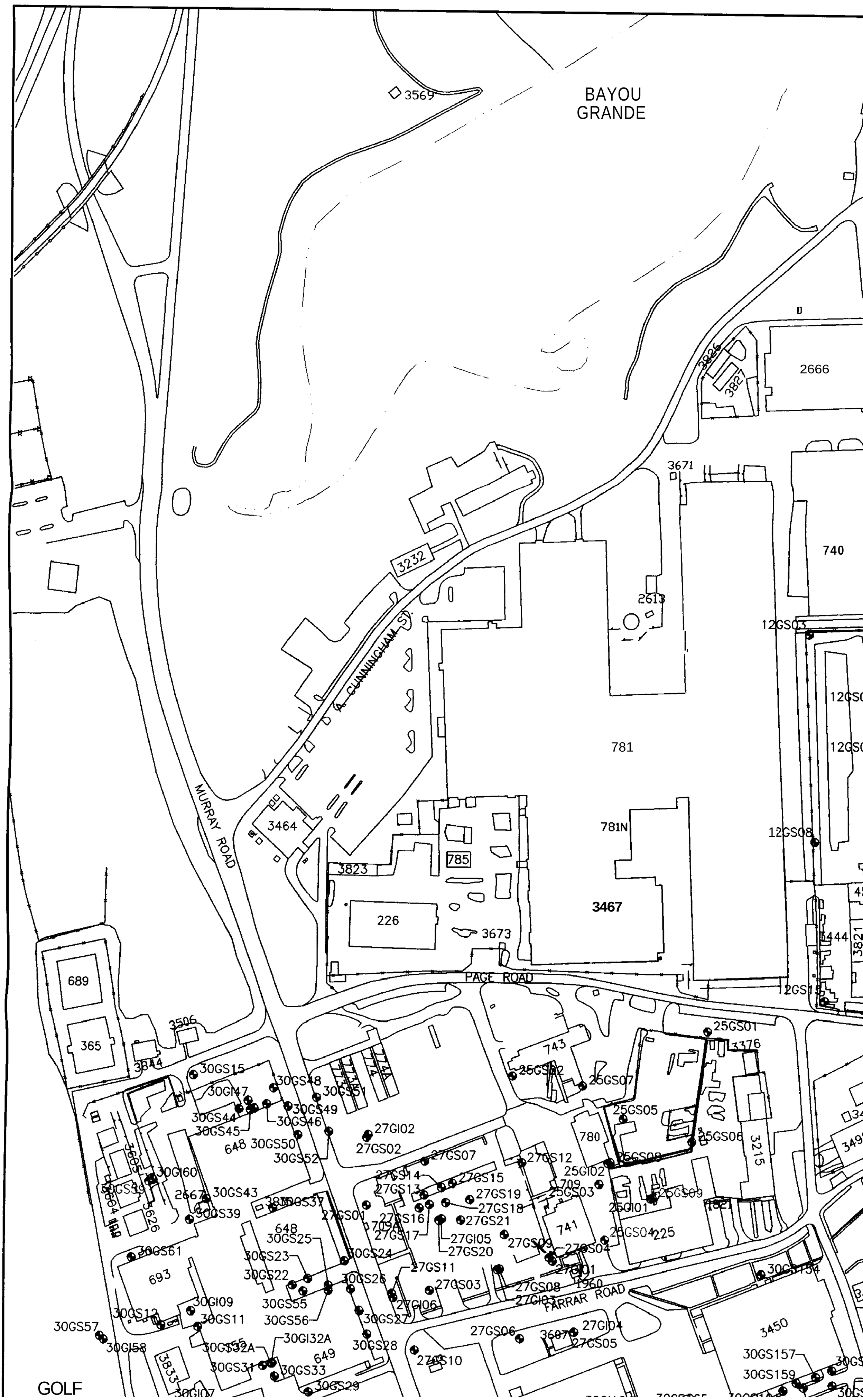
200 0 200
SCALE FEET

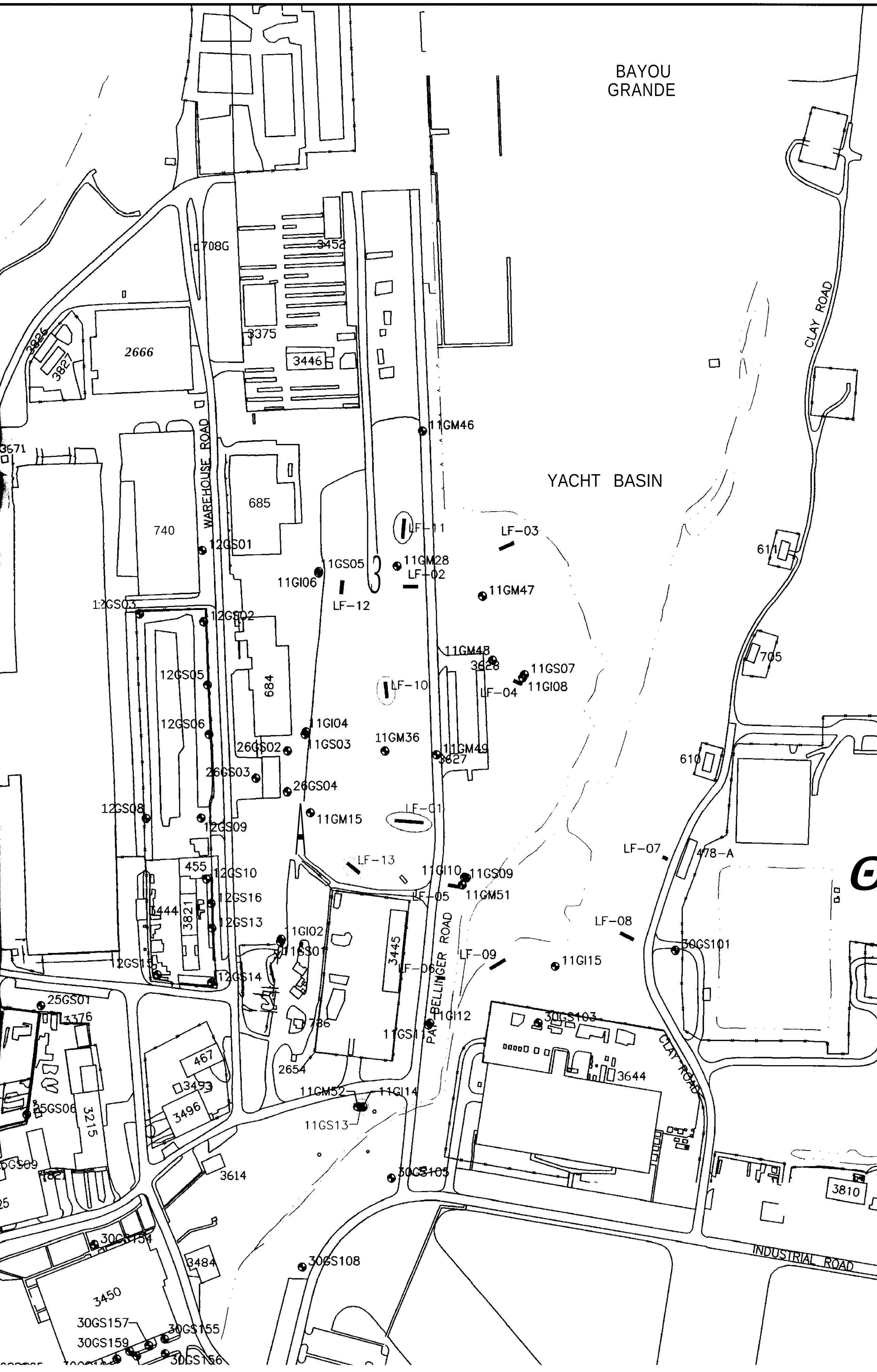
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 39
PHASE I SHALLOW GROUNDWATER
VANADIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2VAN	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
743
25GS01
3376
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
780
25GS07
25GS05
25GS06
3215
30GI60
27GS14
27GS15
27GS13
27GS19
27GS18
25GI02
709
25GS03
25GS09
25GI01
30GS43
30GS39
27GS01
27GS16
27GS21
709A
27GS17
27GI05
27GS20
741
25GS04
225
30GS61
30GS25
30GS23
30GS24
27GS11
693
30GS22
30GS26
27GS03
27GS08
27GI01
1960
FARRAR ROAD
30GS154
30GI09
30GS55
30GS56
27GI06
30GS12
30GS11
30GS27
30GS57
30GI58
30GI32A
30GS28
27GS06
27GI04
27GS05
3450
30GS157
30GS159
649
30GS31
30GS33
30GS29
3833
GOLF


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAPPELLINGER ROAD
INDUSTRIAL ROAD
2666
3452
3375
3446
3826
3827
3671
708G
740
685
684
455
3444
3821
3445
467
3493
3496
3215
3376
3614
3484
3450
3644
3810
611
610
705
478-A
786
2654
11GM46
12GS01
1GS05
11GI06
11GM28
LF-11
LF-02
LF-03
11GM47
LF-12
12GS03
12GS02
11GM48
3628
11GS07
11GI08
LF-04
LF-10
12GS05
12GS06
11GI04
11GS03
26GS02
11GM36
11GM49
3627
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-13
11GI10
11GS09
11GM51
LF-05
12GS10
12GS16
12GS13
1GI02
11GS01
LF-06
LF-09
LF-08
11GI15
30GS101
12GS15
12GS14
25GS01
11GI12
30GS103
11GS11
LF-07
25GS06
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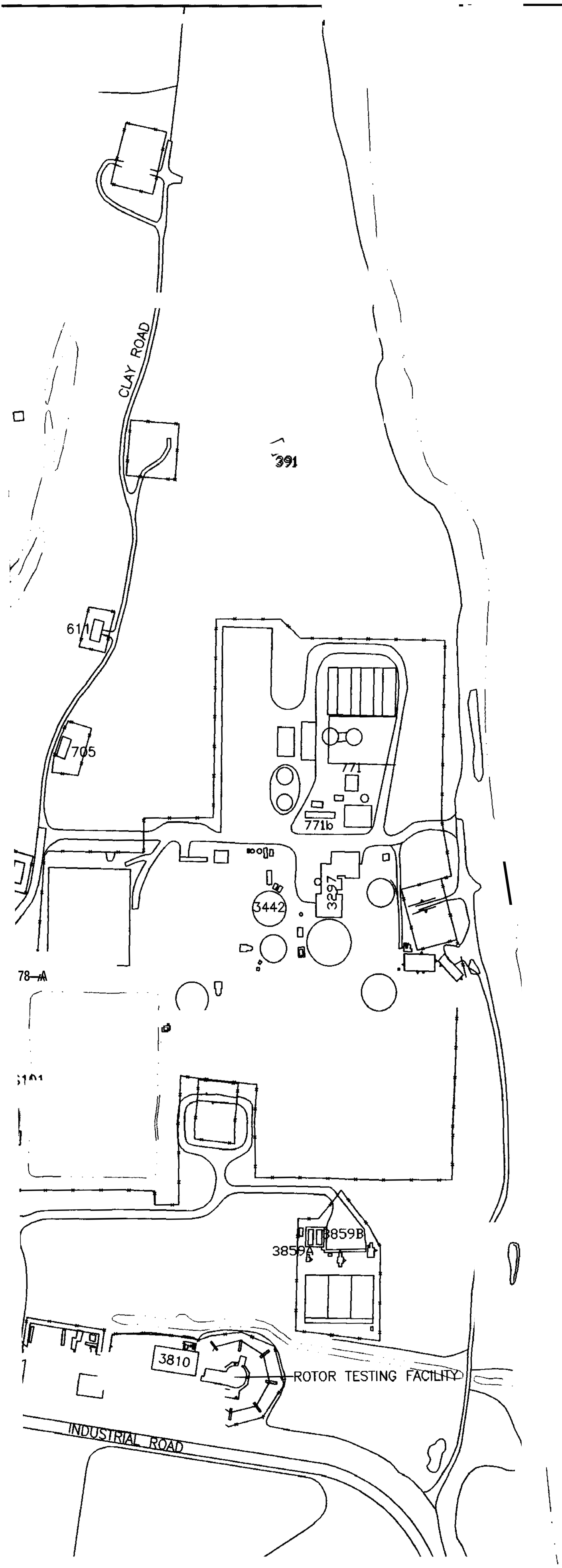
11GI14
11GS13
30GS105
30GS154
30GS108
30GS157
30GS155
30GS159
30GS156



PHASE I SELECT DRINKING

SITE	MONITORING WELL ID	Barium (Ba)
UNITS (µg/L)		2000 (
11		
	11-G-S013	379(
	11-G-LF01	
	11-G-LF1_	2170
	11-G-LF11	
	11-G-LF13	2710
25		
	25-G-S004	
	25-G-S009	
30		
	30-G-S059	

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER ST

743

PENSACOLA BAY

e

APPROXIMATE AREA OF
CONCENTRATIONS EX(

APPROXIMATE AREA O
BERYLLIUM, MERCURY
DRINKING WATER STA

APPROXIMATE AREA O
CONCENTRATIONS EX(

APPROXIMATE AREA O
CONCENTRATIONS EX(

APPROXIMATE AREA O
CONCENTRATIONS EX(

PHASE I SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES

SITE	MONITORING WELL ID	Barium (Ba)	Beryllium (Be)	Mercury (Hg)	Nickel (Ni)	Thallium (Tl)
UNITS (µg/L)		2000 (1)	4 (1)	2 (1)	100 (1)	2 (1)
11						
	11-G-S013	3790				
	11-G-LF01		7.4		177	
	11-G-LF10	2170	22.5	5.9	715	
	11-G-LF11		4.3 J			
	11-G-LF13	2710			145	
25						
	25-G-S004			2.4		
	25-G-S009			2.3	107	
30						
	30-G-S059					2 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

PENSACOLA BAY

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES).

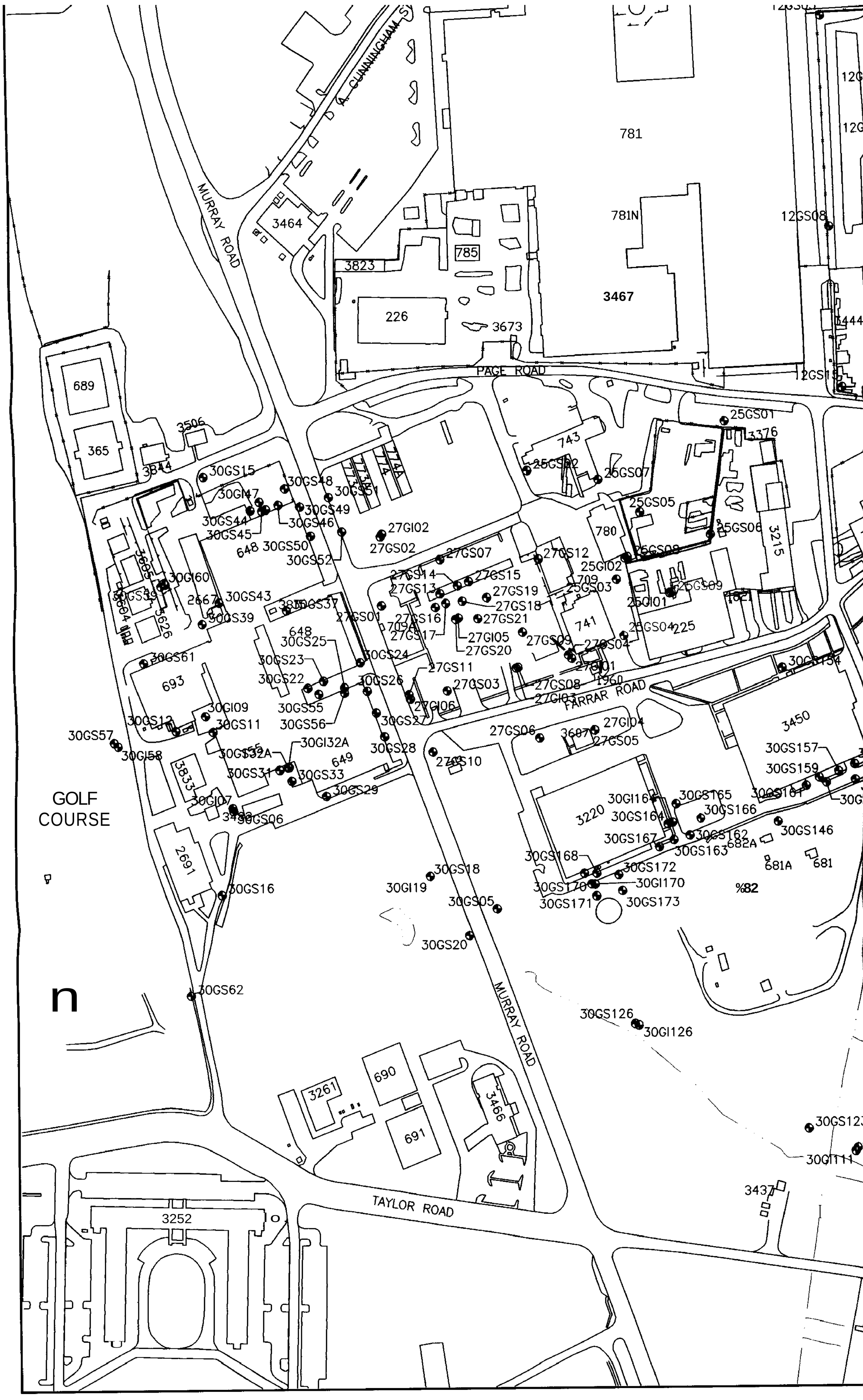
APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BARIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BARIUM, BERYLLIUM, MERCURY, AND NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BERYLLIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD+

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BERYLLIUM AND NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER MERCURY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.


A. CUNNINGHAM ST
MURRAY ROAD
3464
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3673
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781N
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PAGE ROAD
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3506
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30GS46
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27GI03
FARRAR ROAD
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LF-06
PAT BELLINGER ROAD
LF-09
11GI15
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LF-07
478-A
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3376
11GI12
30GS103
CLAY ROAD
3644
467
3493
3496
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11GM52
11GI14
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25GS06
3215
25GS09
1621
3614
30GS105
30GS154
3484
30GS108
INDUSTRIAL ROAD
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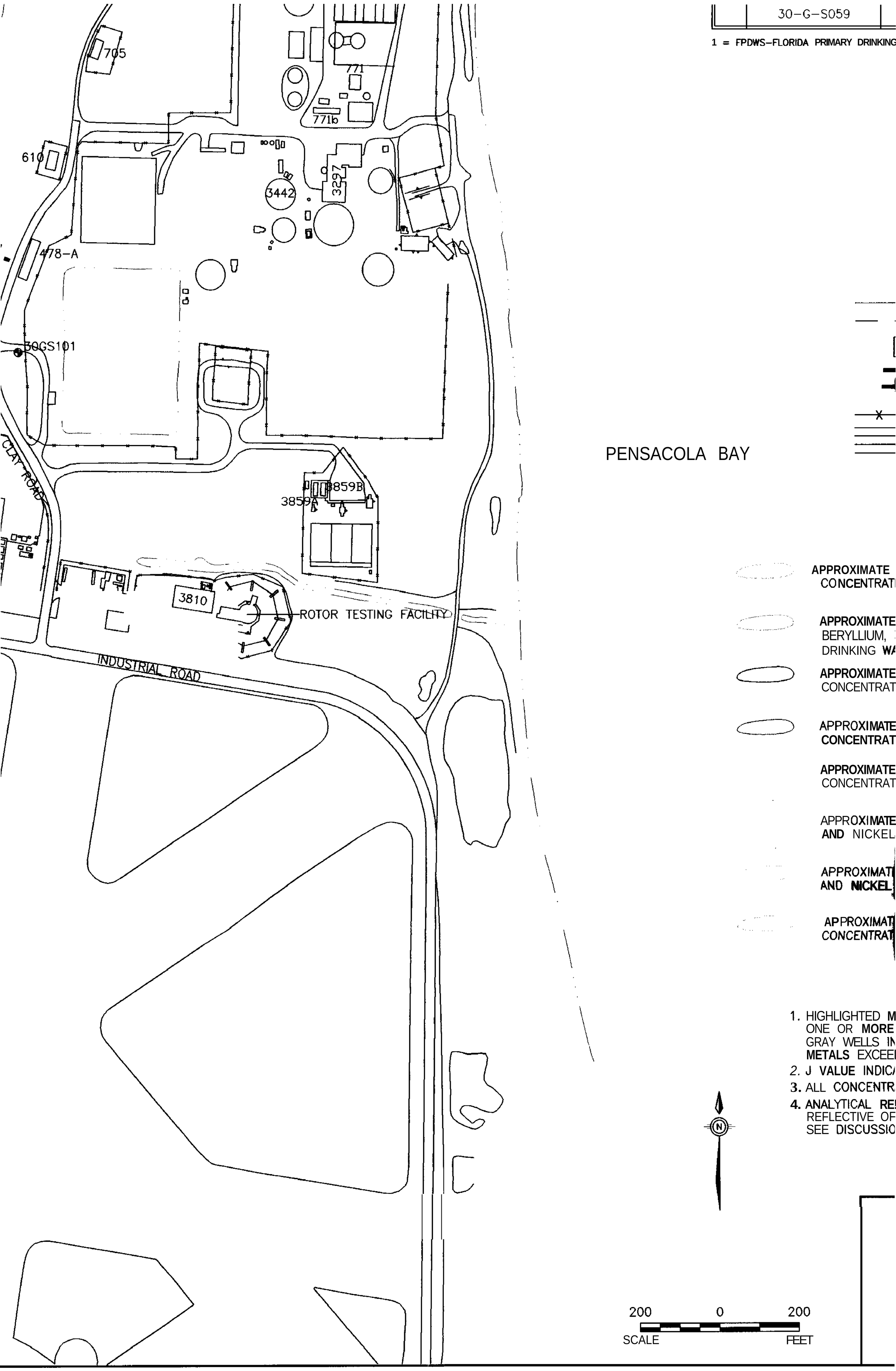

30-G-S059
1 = FPDWS-FLORIDA PRIMARY DRINKING
705
771
771b
610
3442
3297
478-A
30GS101
CLAY ROAD
3859B
3859A
3810
ROTOR TESTING FACILITY
INDUSTRIAL ROAD
PENSACOLA BAY
APPROXIMATE
CONCENTRAT
APPROXIMATE
BERYLLIUM,
DRINKING WA
APPROXIMATE
CONCENTRAT
APPROXIMATE
CONCENTRAT
APPROXIMATE
CONCENTRAT
APPROXIMATE
AND NICKEL
APPROXIMAT
AND NICKEL
APPROXIMAT
CONCENTRAT
1. HIGHLIGHTED M
ONE OR MORE
GRAY WELLS IN
METALS EXCEE
2. J VALUE INDIC
3. ALL CONCENTR
4. ANALYTICAL RE
REFLECTIVE OF
SEE DISCUSSIO
N
200
0
200
SCALE
FEET

	30-G-S059					2 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH

TRENCH (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES)

FENCE LINE

ROADS

SIDEWALKS

PENSACOLA BAY

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING SELECTED SHALLOW GROUNDWATER PRIMARY DRINKING WATER METALS EXCEEDANCES).

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BARIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BARIUM, BERYLLIUM, MERCURY, AND NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BERYLLIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BERYLLIUM AND NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER MERCURY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER MERCURY AND NICKEL CONCENTRATIONS EXCEEDING FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER BARIUM, AND NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS,

APPROXIMATE AREA OF PHASE I SHALLOW GROUNDWATER THALLIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SELECTED PHASE I PRIMARY DRINKING WATER METALS EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF SELECTED PHASE I PRIMARY DRINKING WATER METALS EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

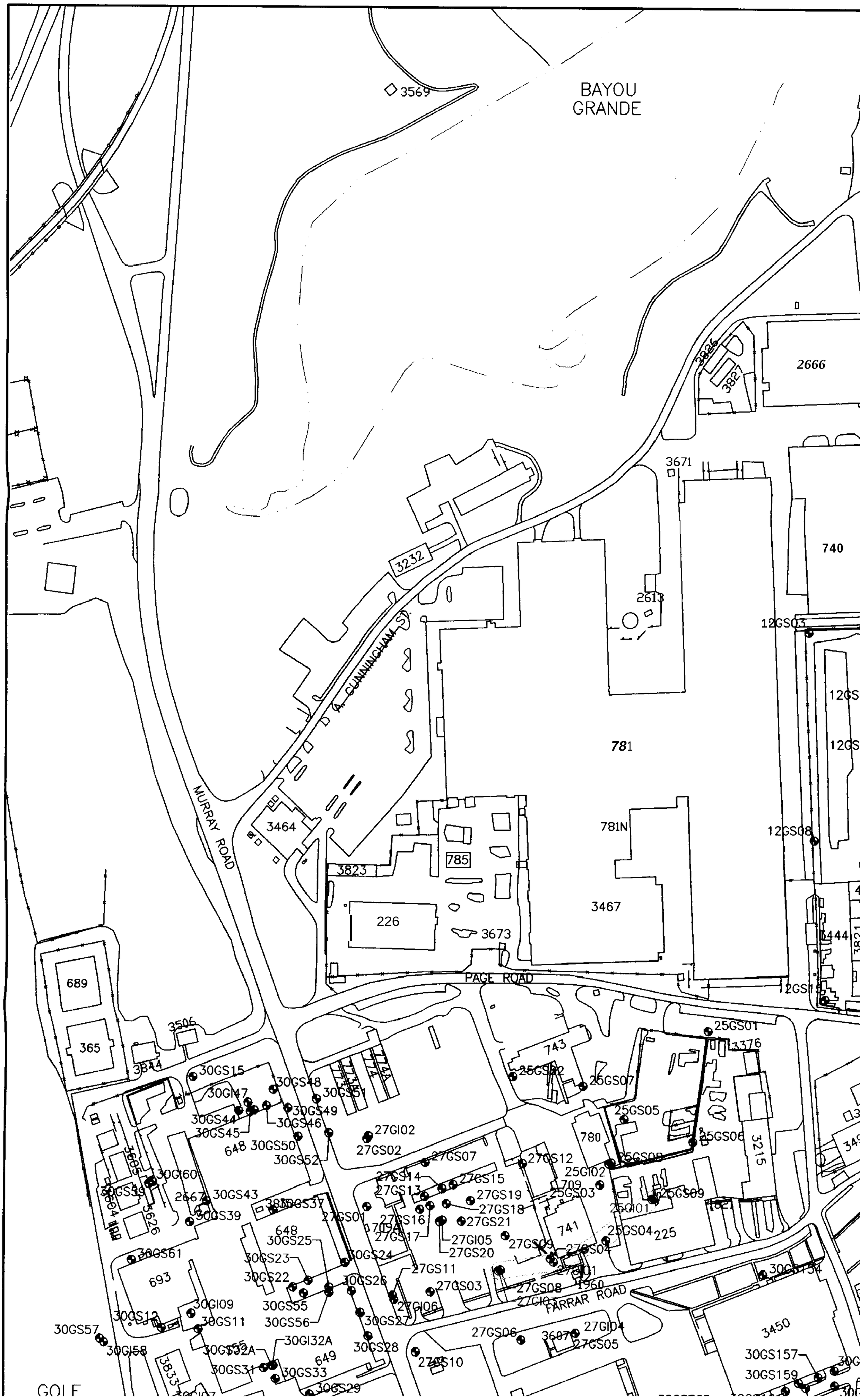
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 40
PHASE I SHALLOW GROUNDWATER
SELECTED PRIMARY DRINKING WATER
METALS EXCEEDANCES

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/08/97	DWG Name: 590U2SPD	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
2666
3826
3827
3671
740
2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
743
25GS01
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27GI02
27GS02
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30GS50
30GS52
27GS07
27GS12
780
25GS05
25GS06
3215
30GI60
27GS14
27GS15
27GS13
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25GI02
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25GS03
25GS09
30GS43
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
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27GS20
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FARRAR ROAD
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30GS57
30GI58
30GI32A
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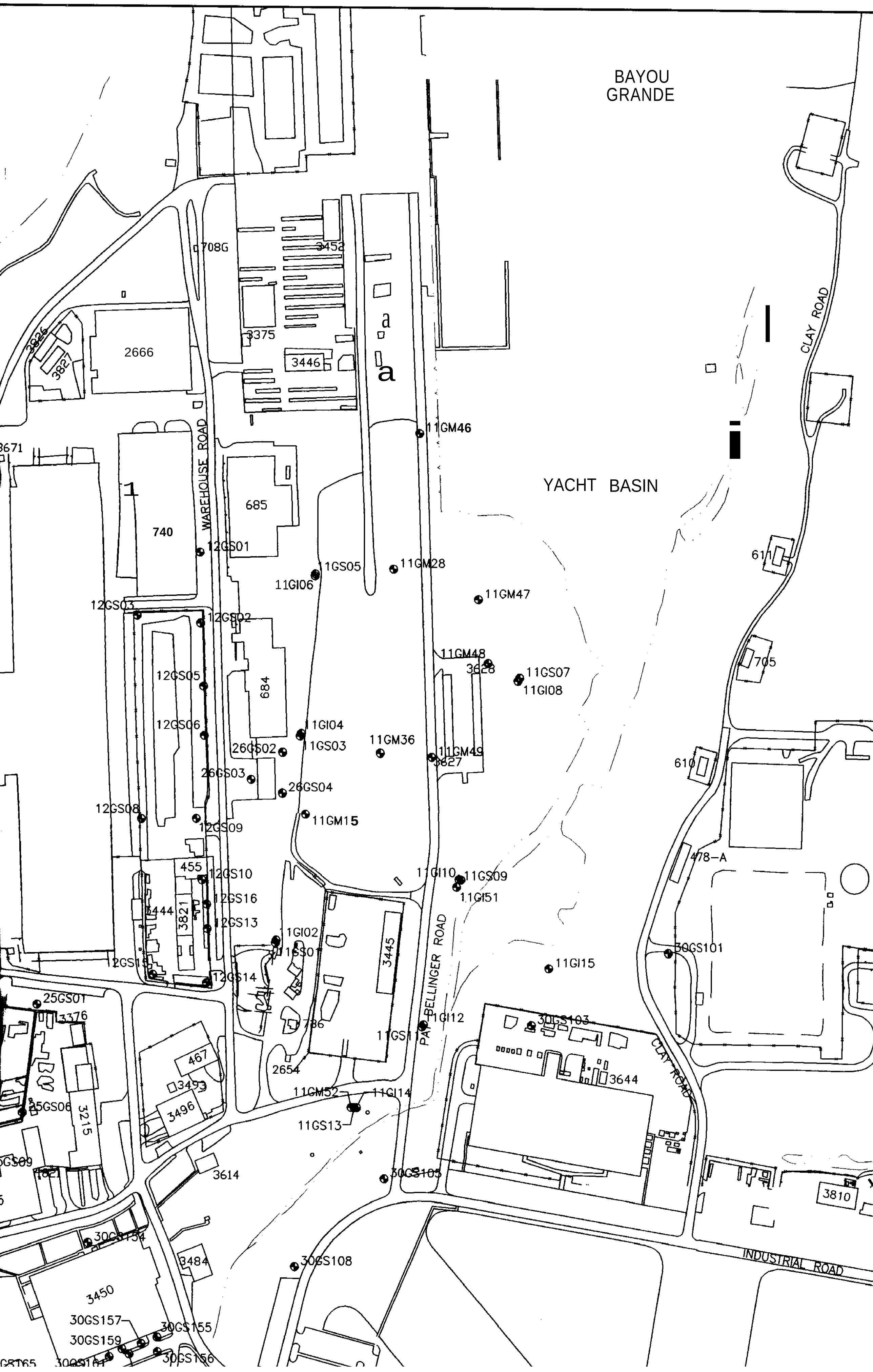
BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
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3827
3671
740
685
684
455
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25GS01
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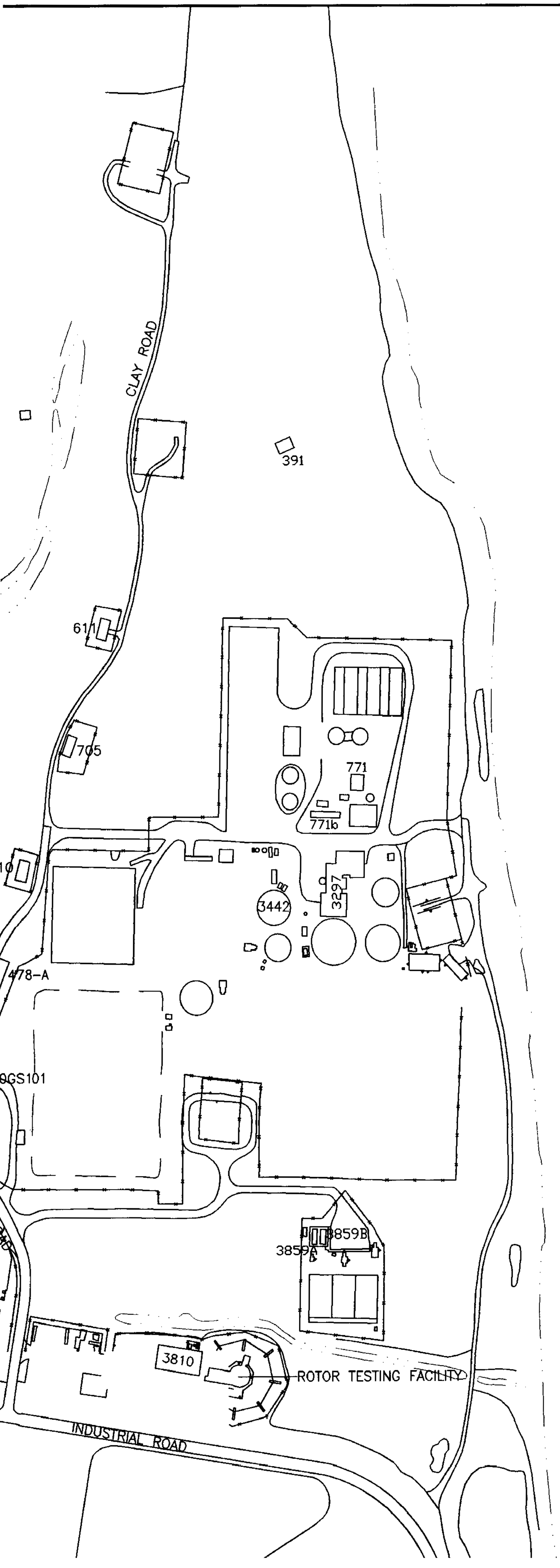


PHASE
Site

UNITS
25
27

1 = FPDWS

PENSACOLA BAY

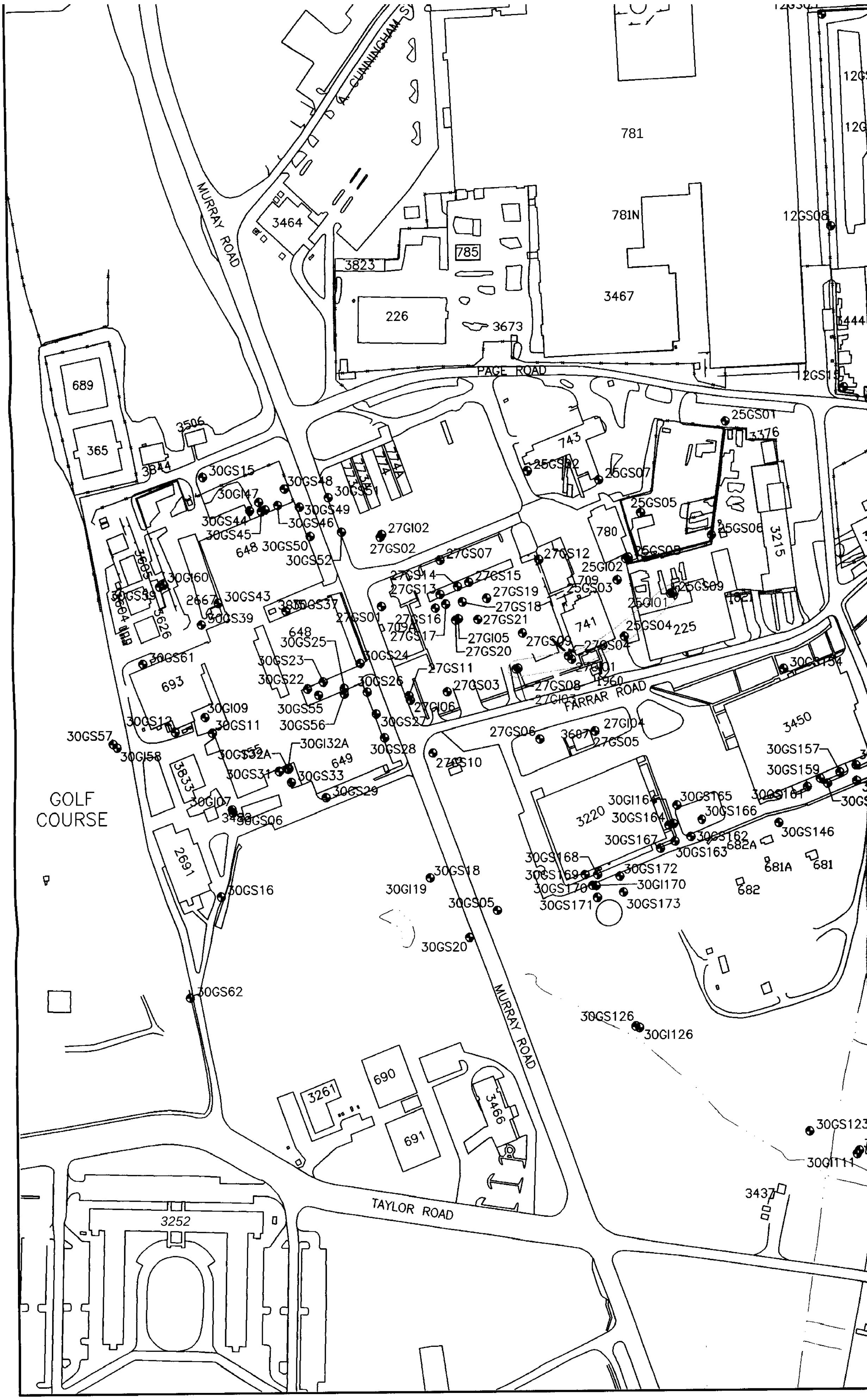
PHASE I INTERMEDIATE GROUNDWATER ANTIMONY EXCEEDANCES		
Site	Monitoring Well ID	Antimony (Sb)
UNITS (µg/L)		6 (1)
25		
	25-G-I001	55.4 J
27		
	27-G-I001	59.9 J
	27-G-I003	39.2 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE


A. CUNNINGHAM ST
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
3467
785
3823
3464
226
3673
689
365
3506
3844
743
774
774A
774B
780
741
709
709A
648
649
693
3833
2691
3605
3604
3626
2667
3880
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3376
3450
3220
3261
690
691
3466
3252
3437
682A
681A
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12GS08
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684
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PAT BELLINGER ROAD
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INDUSTRIAL ROAD
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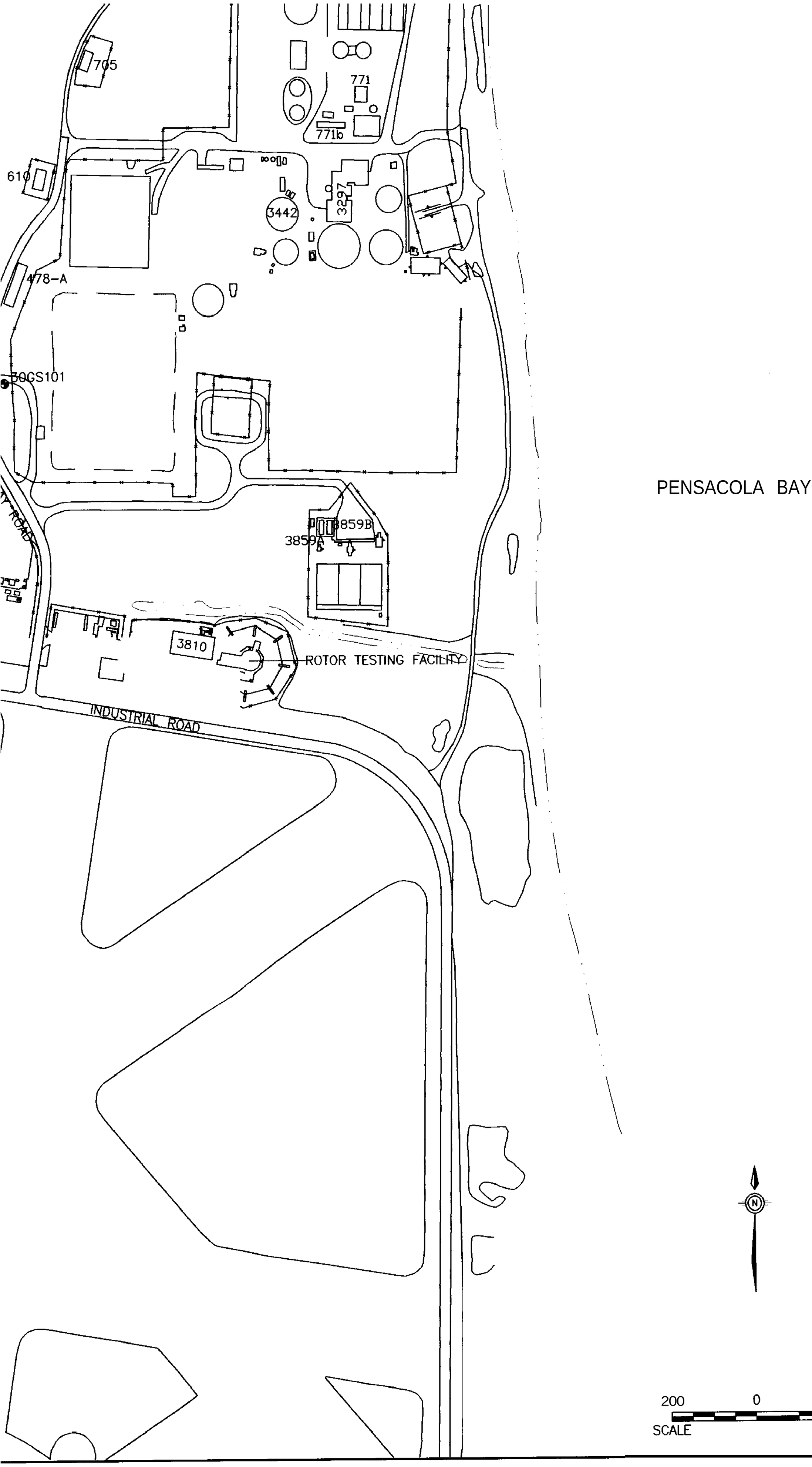

UNIT
25
27

1 = FF

1.

2.

3.

	ID	(Sb)
UNITS (µg/L)		6 (1)
25		
	25-G-1001	55.4 J
27		
	27-G-1001	59.9 J
	27-G-1003	39.2 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING ANTIMONY GROUNDWATER EXCEEDANCES).
- APPROXIMATE AREA Of PHASE I INTERMEDIATE GROUNDWATER ANTIMONY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER ANTIMONY EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE 1 INTERMEDIATE GROUNDWATER ANTIMONY EXCEEDANCES.
2. 3 VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN µg/L.

N

200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 41
PHASE I INTERMEDIATE GROUNDWATER
ANTIMONY EXCEEDANCES

Dr by: K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2ANT	Of 1

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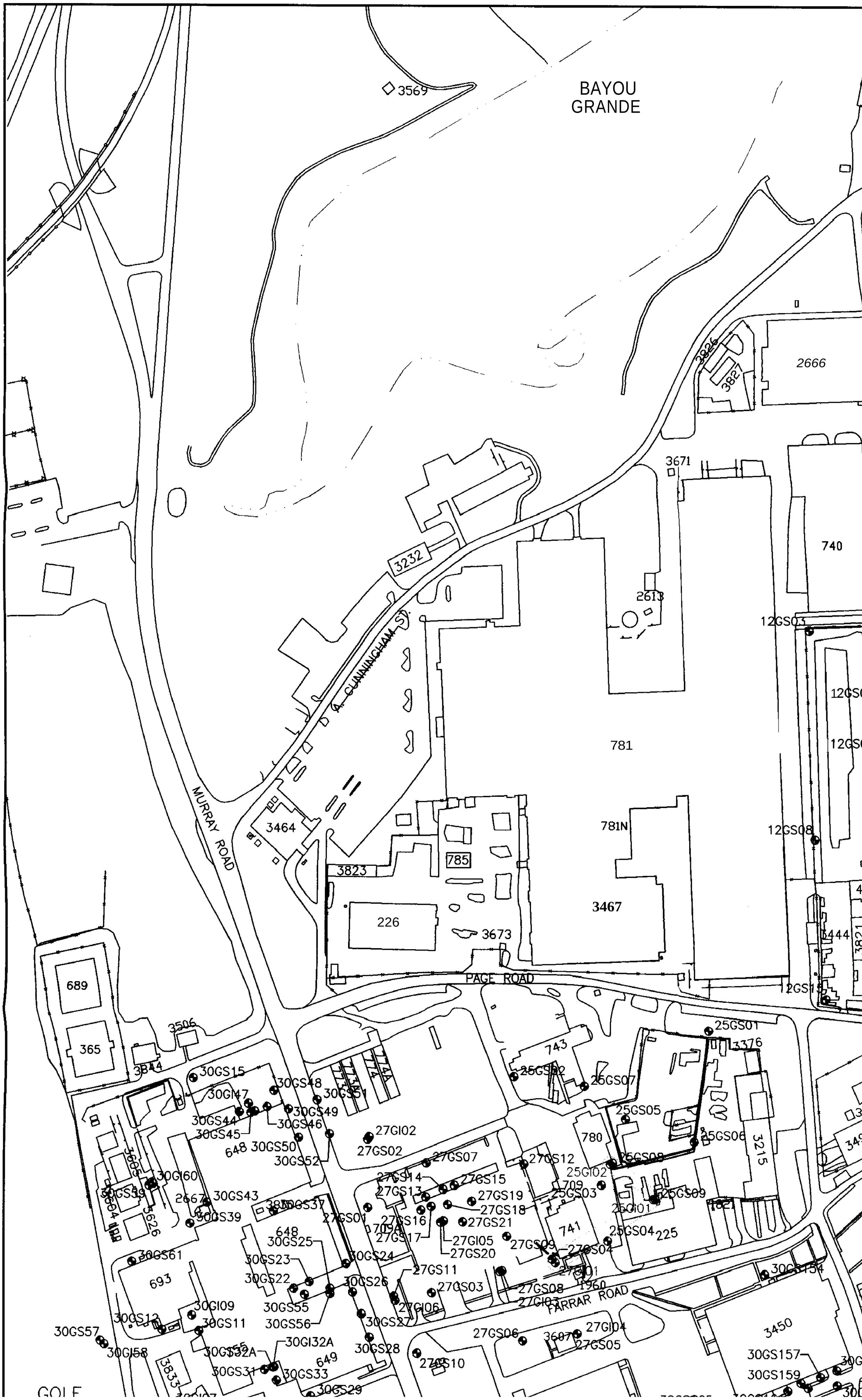
SUBSEQUENT IMAGES


BAYOU
GRANDE
3569
2666
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12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
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3673
3444
PAGE ROAD
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365
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1960
30GS154
30GI09
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27GI03
FARRAR ROAD
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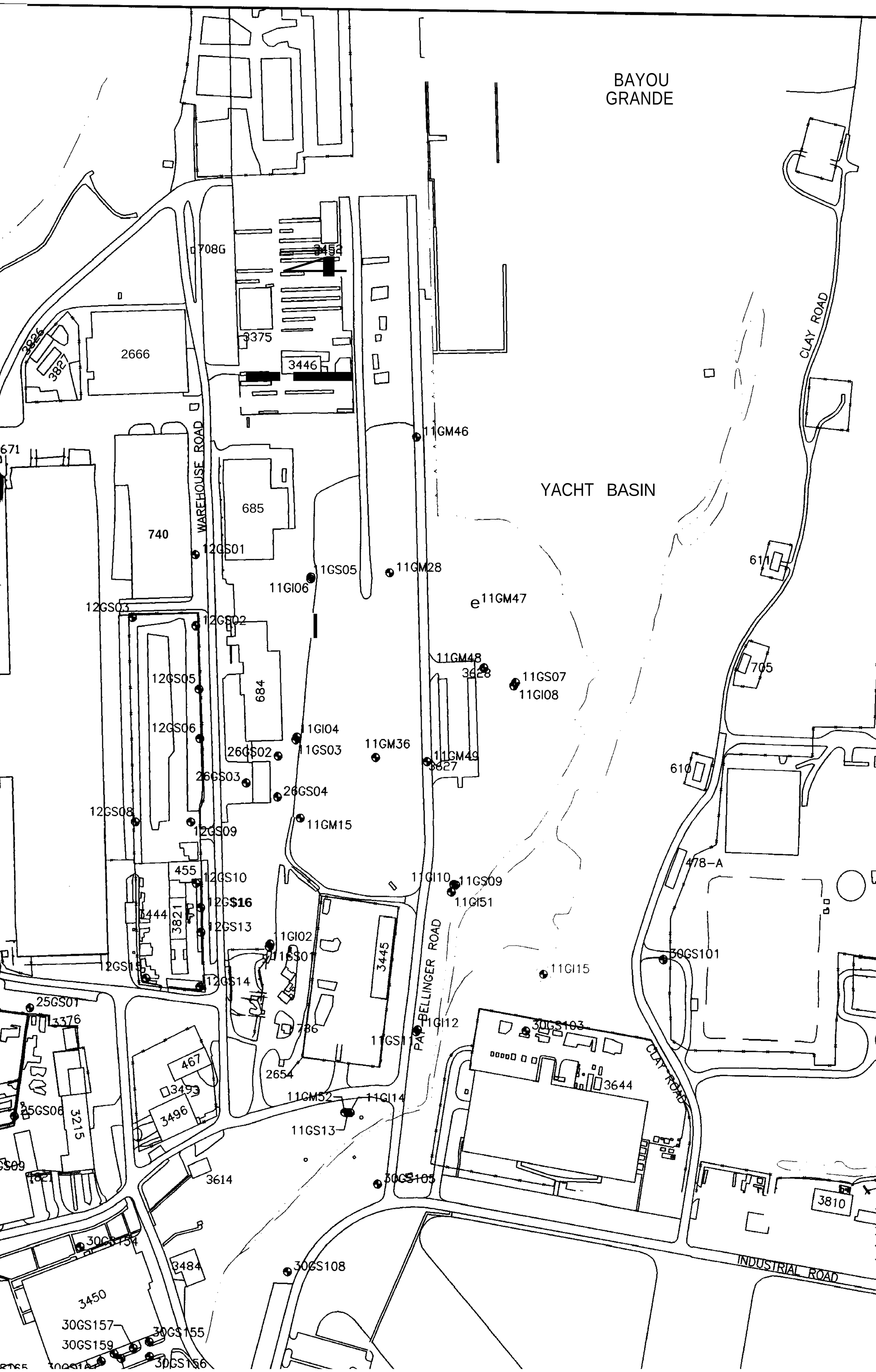
BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
382
671
740
685
684
455
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3821
3445
467
3493
3496
3215
3376
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25GS06
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3484
3450
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30GS103
30GS101
3644
3810
478-A
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610
705
11GM46
12GS01
1GS05
11GM28
11GI06
11GM47
12GS03
12GS02
11GM48
3628
11GS07
11GI08
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11GI51
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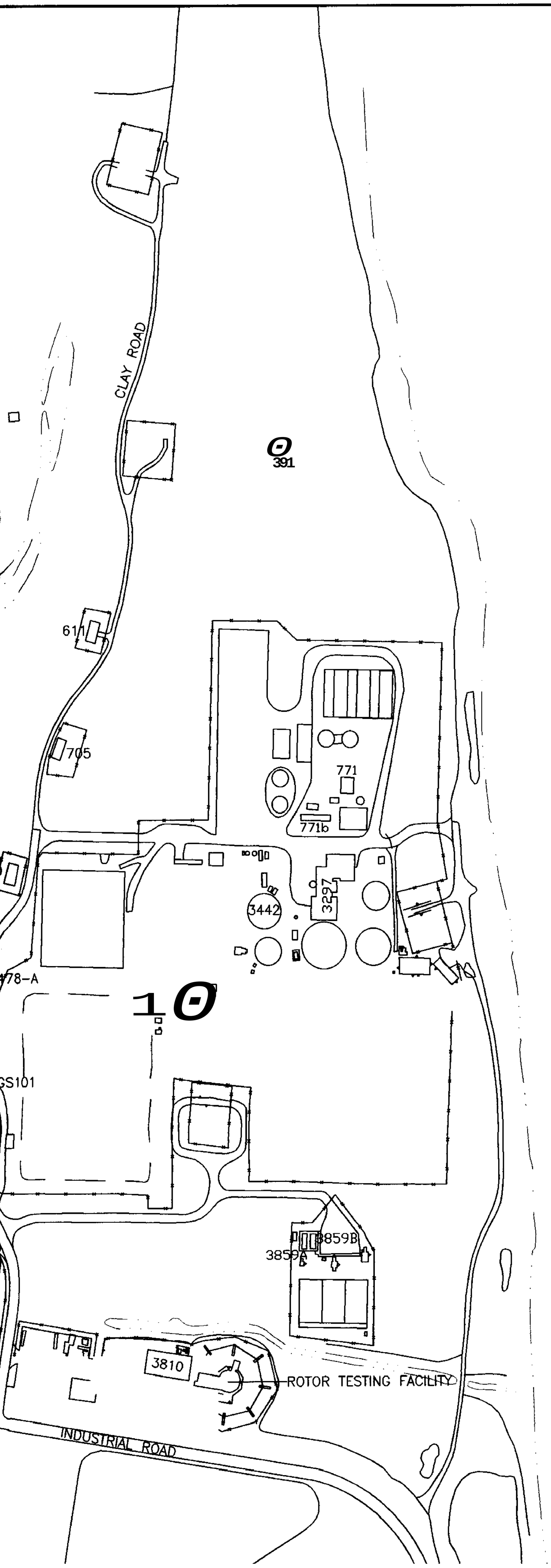
3621



PHASE I	
Site	
UNITS (A	
11	
25	
27	

1 = FPDWS-GS101

PENSACOLA BAY

743

PHASE I INTERMEDIATE GROUNDWATER ARSENIC EXCEEDANCES

Site	Monitoring Well ID	Arsenic (As)
UNITS (µg/L)		50 (1)
11		
	11-G-1015	*230*
25		
	25-G-1001	142 J
	25-G-1002	64.9
27		
	27-G-1001	93.6 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

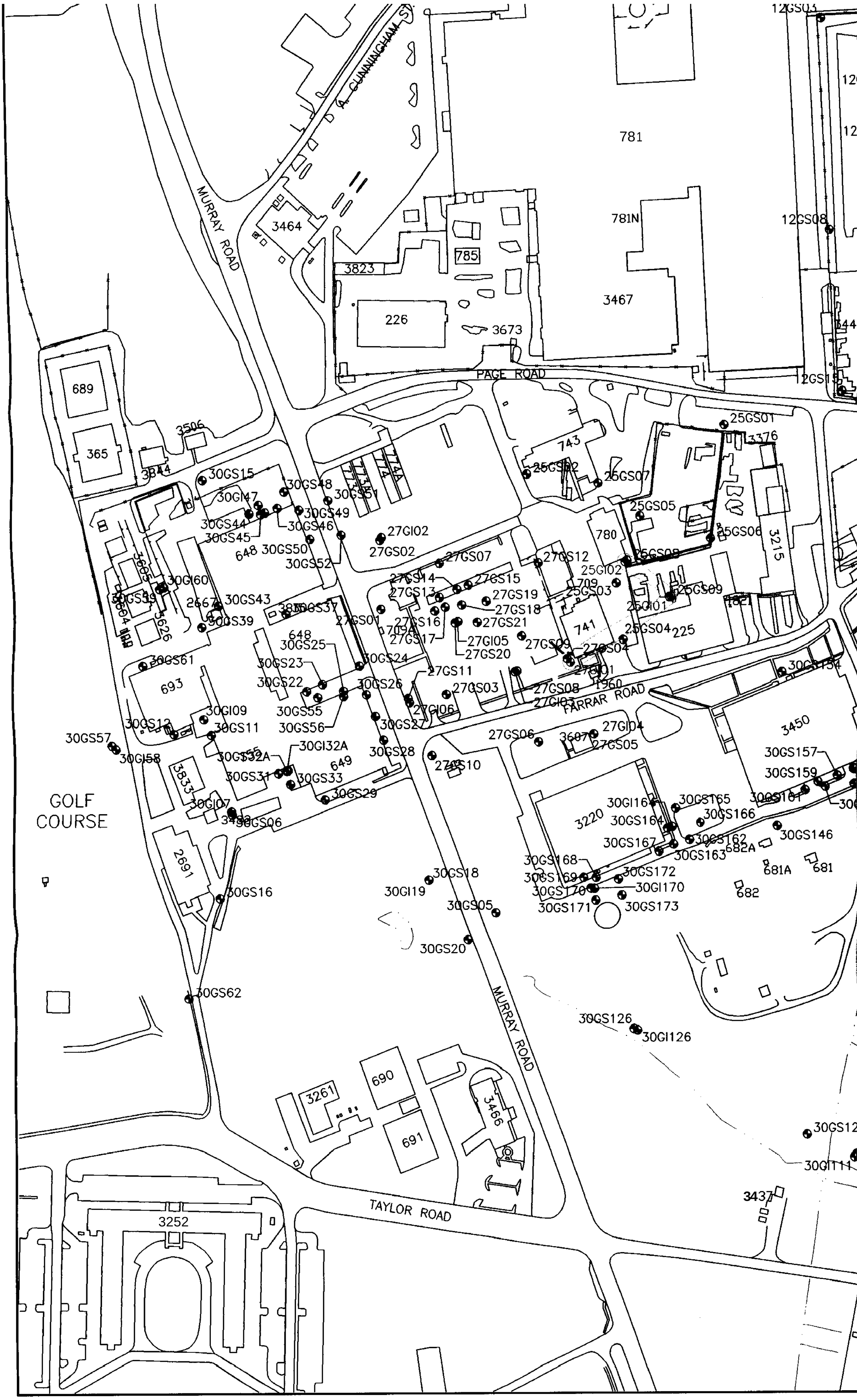
SURFACE WATER BODY

CLOSED LAGOON

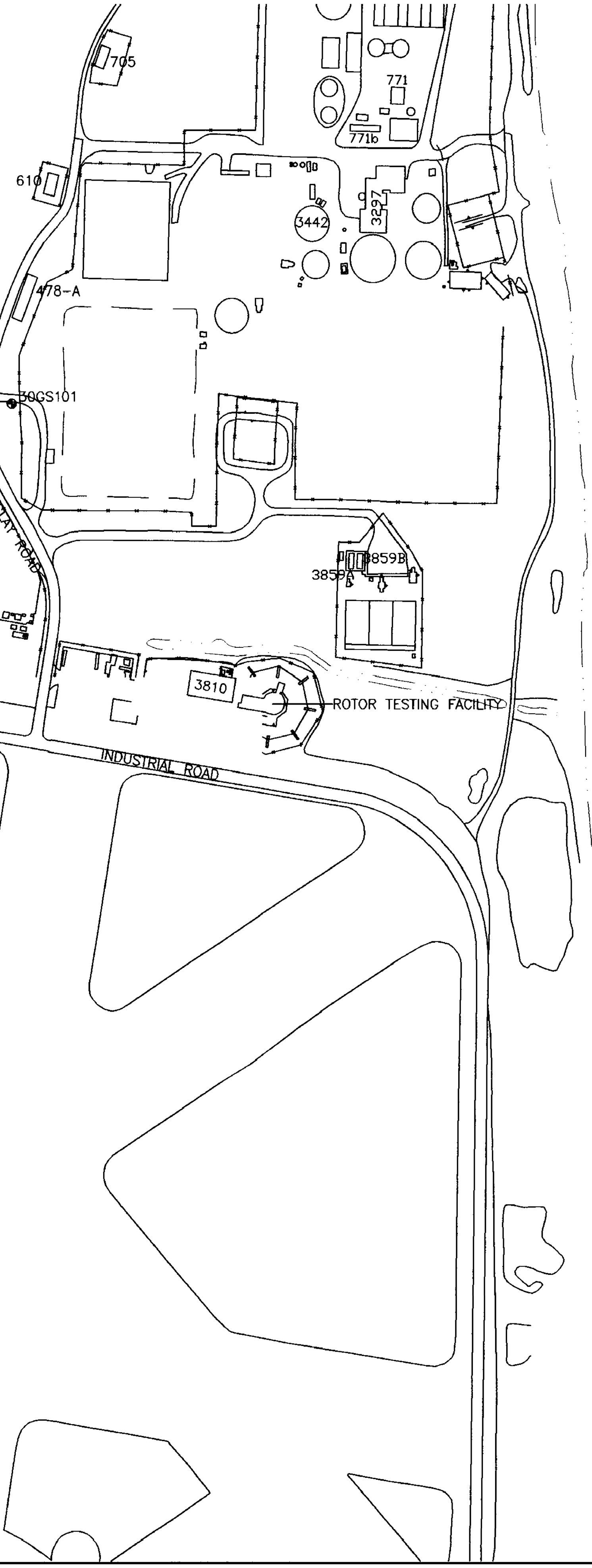
743 BUILDING

FENCE LINE

ROADS


A. CUNNINGHAM ST.
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3464
3823
3467
226
3673
689
365
3506
3844
743
780
741
709
225
693
648
649
3833
2691
3220
3450
3215
3376
3607
3252
3261
690
691
3466
3437
682A
681A
681
682
12GS03
12GS08
25GS01
25GS02
25GS07
25GS05
25GS06
25GS08
25GI02
25GS03
25GS09
25GI01
25GS04
27GI02
27GS02
27GS07
27GS12
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
27GS17
27GI05
27GS20
27GS09
27GS04
27GI01
27GS11
27GS03
27GS08
27GI03
27GI06
27GS01
27GS10
27GS06
27GI04
27GS05
30GS15
30GS48
30GS51
30GI47
30GS49
30GS44
30GS46
30GS45
30GS50
30GS52
30GI60
30GS43
30GS37
30GS39
30GS25
30GS23
30GS22
30GS24
30GS26
30GS61
30GI09
30GS55
30GS56
30GS12
30GS11
30GS27
30GS57
30GI58
30GI32A
30GS32A
30GS31
30GS33
30GS28
30GS29
30GI07
30GS06
30GS16
30GS18
30GI19
30GS05
30GS20
30GS62
30GS126
30GI126
30GS157
30GS159
30GI164
30GS165
30GS161
30GS164
30GS166
30GS167
30GS162
30GS163
30GS146
30GS168
30GS169
30GS172
30GS170
30GI170
30GS171
30GS173
30GS12
30GI111

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS03
26GS04
11GM15
12GS08
12GS09
455
12GS10
12GS16
12GS13
3444
3821
11GI02
11GS01
12GS15
12GS14
3445
11GM36
11GM48
3628
11GS07
11GI08
11GM49
3627
11GI10
11GS09
11GI51
BELLINGER ROAD
11GI15
705
610
478-A
30GS101
25GS01
3376
786
11GS11
11GI12
30GS103
CLAY ROAD
3644
467
3493
3496
2654
11GM52
11GI14
11GS13
25GS06
3215
25GS09
3614
30GS105
225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557



PENSACOLA BAY

Sit

UN

1

25

2,

1 =

1. HIGHLIGHTI
INTERMEDIA
GRAY WELL
GROUNDWA
2, J VALUE I
3. ALL CONC

200 0 200
SCALE FEET

Site	Monitoring Well ID	Arsenic (As)
UNITS (µg/L)		50 (1)
11		
	11-G-1015	230
25		
	25-G-1001	142 J
	25-G-1002	64.9
27		
	27-G-1001	93.6 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

743

SURFACE WATER BODY
CLOSED LAGOON
BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE I INTERMEDIATE ARSENIC GROUNDWATER EXCEEDANCES).
APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER ARSENIC CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER ARSENIC EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER ARSENIC EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN µg/L.

N

200 0 200
SCALE FEET

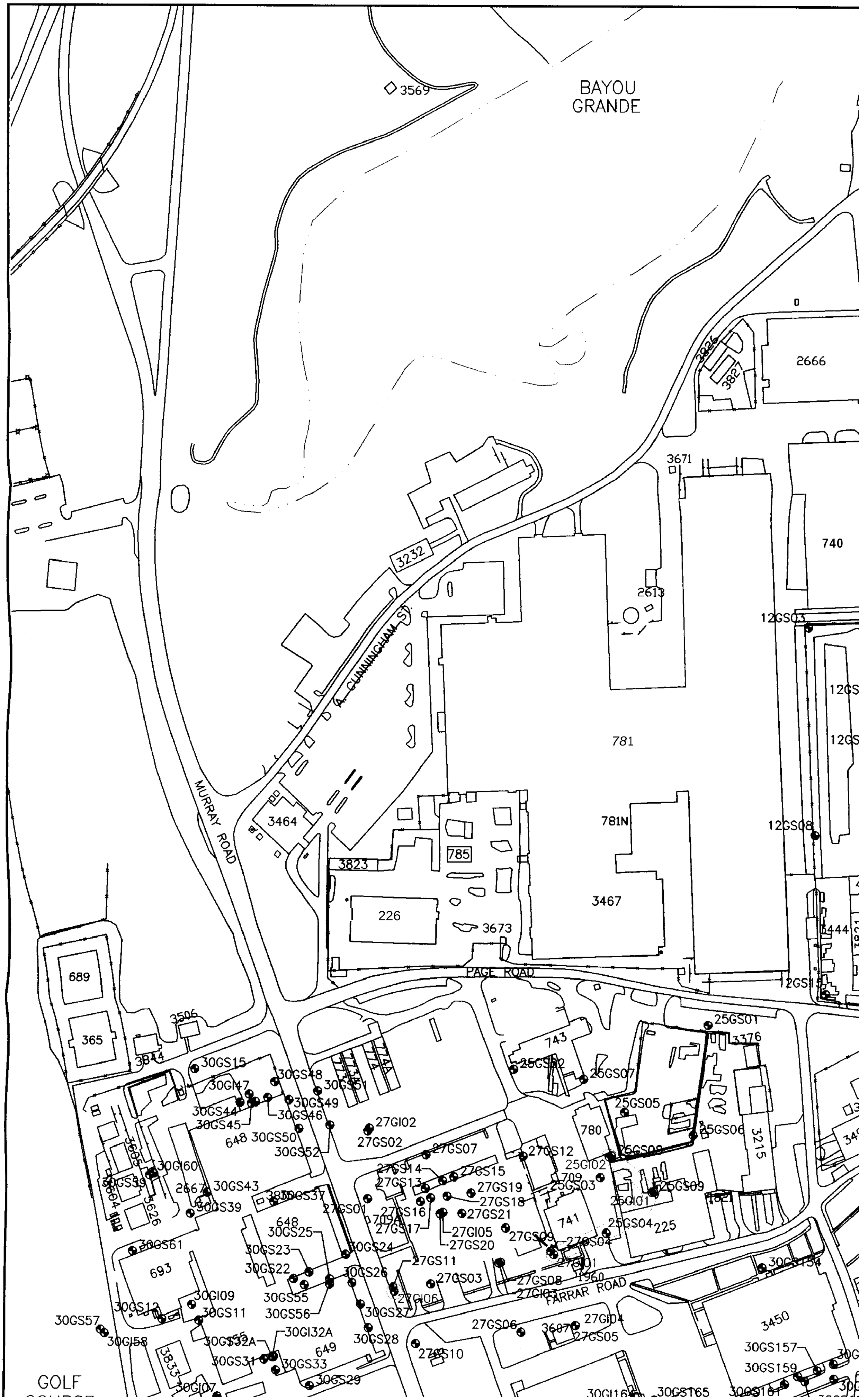
NAS PENSACOLA
OPERABLE UNIT 2

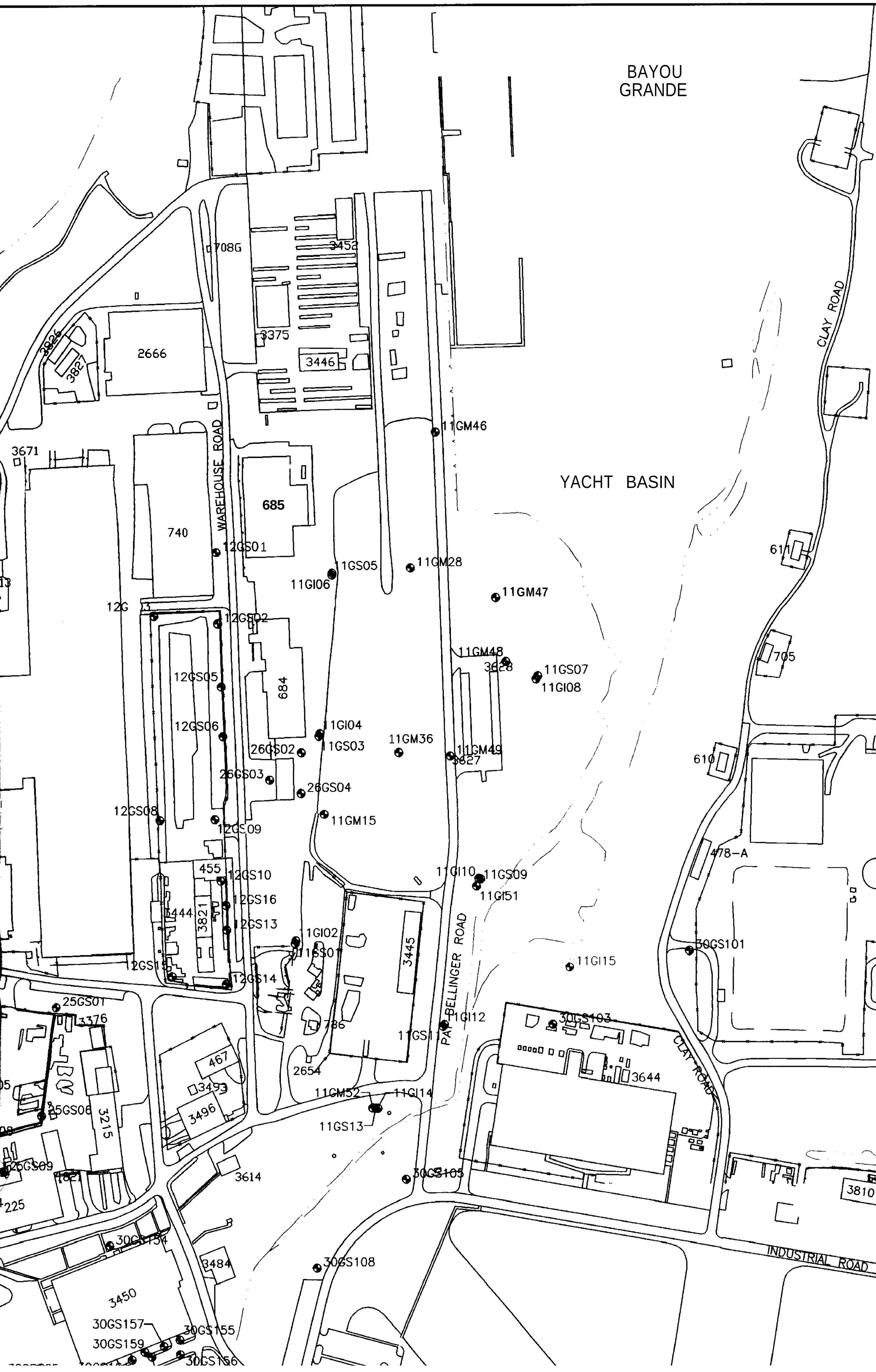
FIGURE 42
PHASE I INTERMEDIATE GROUNDWATER
ARSENIC EXCEEDANCES

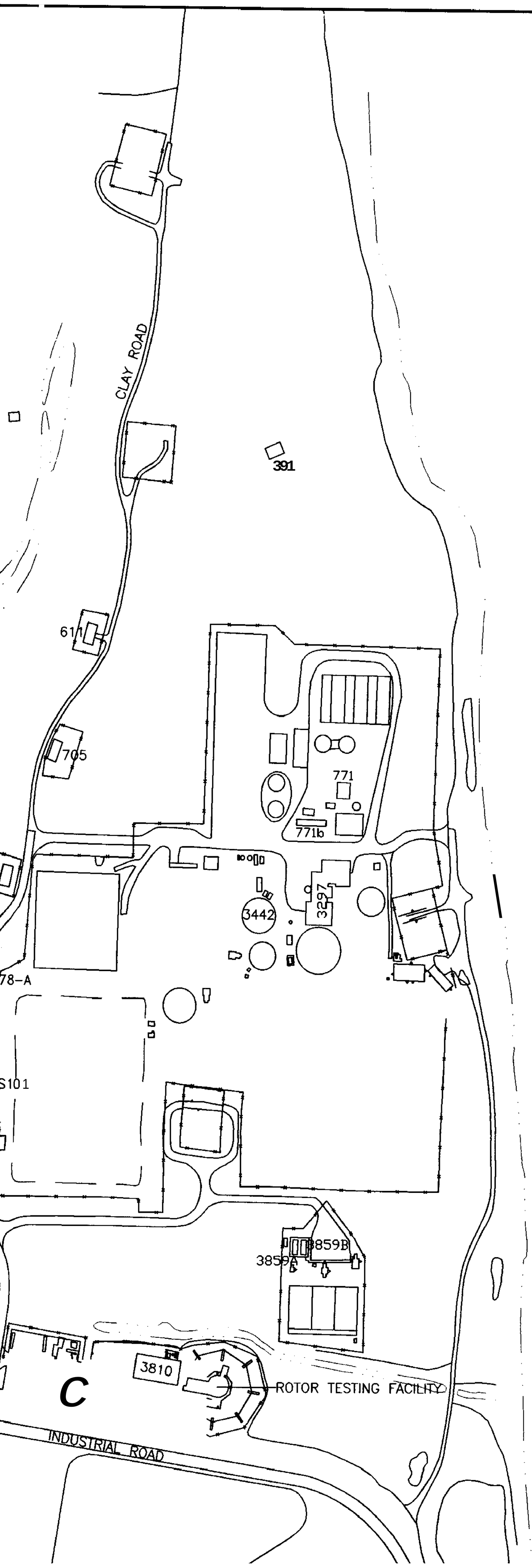
Dr. by: K. BRONSON/AH	Proj. Code: 0059 00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2AR2	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU
GRANDE
3569
2666
3826
3827
3671
740
3232
2613
12GS03
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
3823
3467
226
3673
3444
PAGE ROAD
689
365
3506
3844
25GS01
3376
743
30GS15
30GS48
30GI47
30GS51
30GS49
30GS44
30GS46
30GS45
27GI02
648
30GS50
27GS02
30GS52
27GS07
27GS12
780
25GS05
25GS06
25GS08
3215
30GI60
27GS14
27GS15
25GI02
709
27GS13
27GS19
25GS03
25GS09
30GS39
2667
30GS43
30GS37
27GS18
25GI01
30GS39
27GS01
27GS16
27GS21
709A
741
25GS04
225
648
30GS25
27GS17
27GI05
27GS09
27GS04
30GS61
30GS23
30GS24
27GS20
27GS11
693
30GS22
30GS26
27GS03
27GS08
1960
30GI54
30GI09
30GS55
27GI06
27GI03
FARRAR ROAD
30GS12
30GS11
30GS56
30GS27
30GS57
27GS06
3607
27GI04
3450
30GI58
30GS32A
30GI32A
30GS28
27GS05
30GS157
30GS31
30GS33
649
27GS10
30GS159
3833
30GS29
GOLF
30GI07
30GI65
30GS165
30GS161


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
3671
685
740
12GS01
11GS05
11GM28
11GI06
11GM47
12GS02
11GM48
3628
11GS07
11GI08
12GS05
684
12GS06
11GI04
11GS03
11GM36
26GS02
11GM49
3627
26GS03
26GS04
12GS08
11GM15
12GS09
455
12GS10
12GS16
3444
3821
12GS13
11GI10
11GS09
11GI51
11GI02
11GS01
3445
12GS15
12GS14
11GI15
30GS101
25GS01
3376
736
11GS11
11GI12
30GS103
467
3493
2654
3644
11GM52
11GI14
25GS06
3496
3215
11GS13
25GS09
1821
3614
30GS105
3810
225
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
611
705
610
478-A



PHASE I INTE CHRO	
Site	Moni
UNITS (µg/L	
11	
	11-
25	
	25
	25-
27	
	27-
	27-

1 = FPDWS-FLORID

PENSACOLA BAY

PHASE I INTERMEDIATE GROUNDWATER CHROMIUM EXCEED —S—		
Site	Monitoring Well ID	Chromium (Cr)
UNITS (μg/L)		100 (1)
11		
	11-G-1015	771
25		
	25-G-1001	225
	25-G-1002	231
27		
	27-G-1001	392
	27-G-1006	119

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

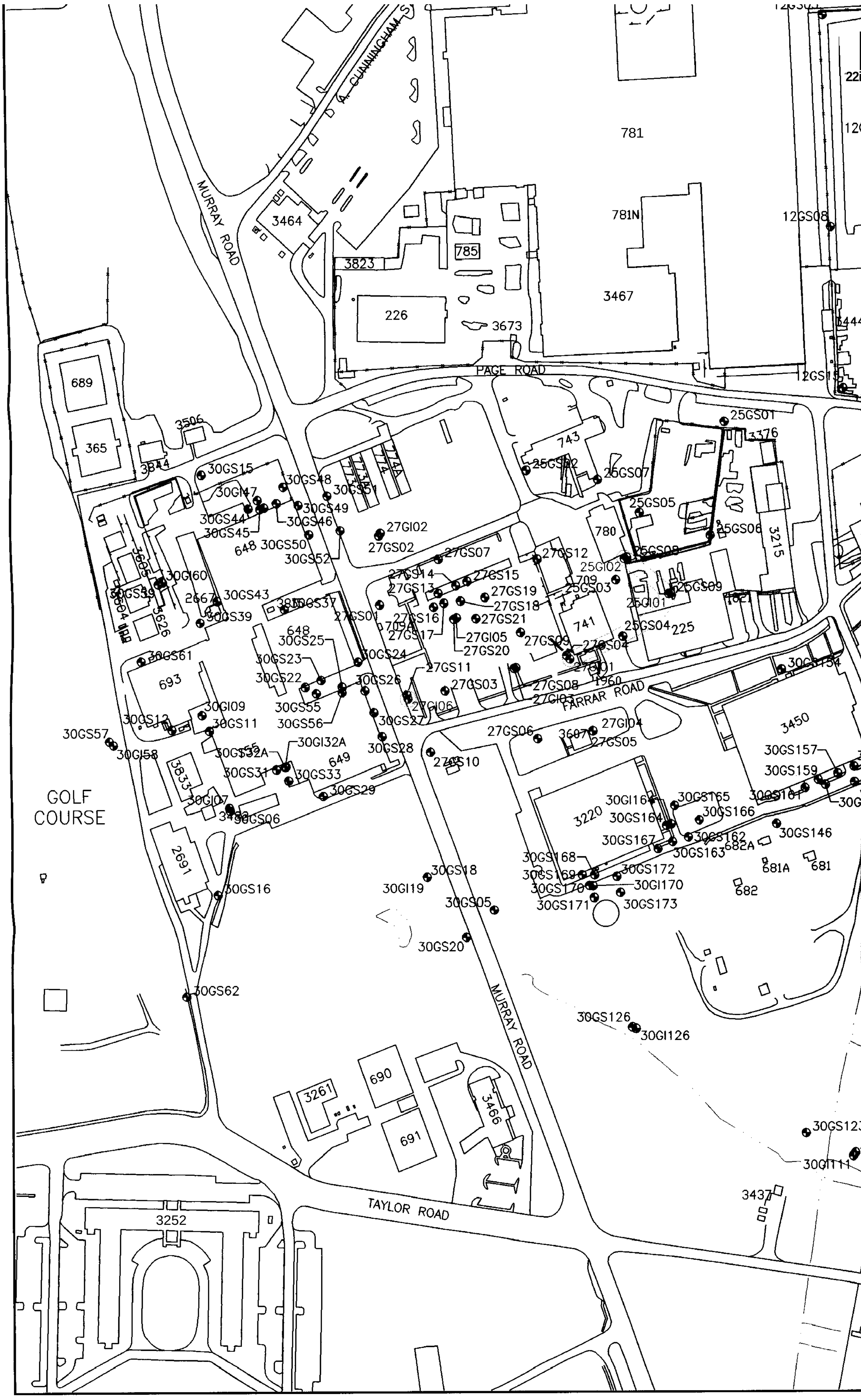
PENSACOLA BAY

LEGEND

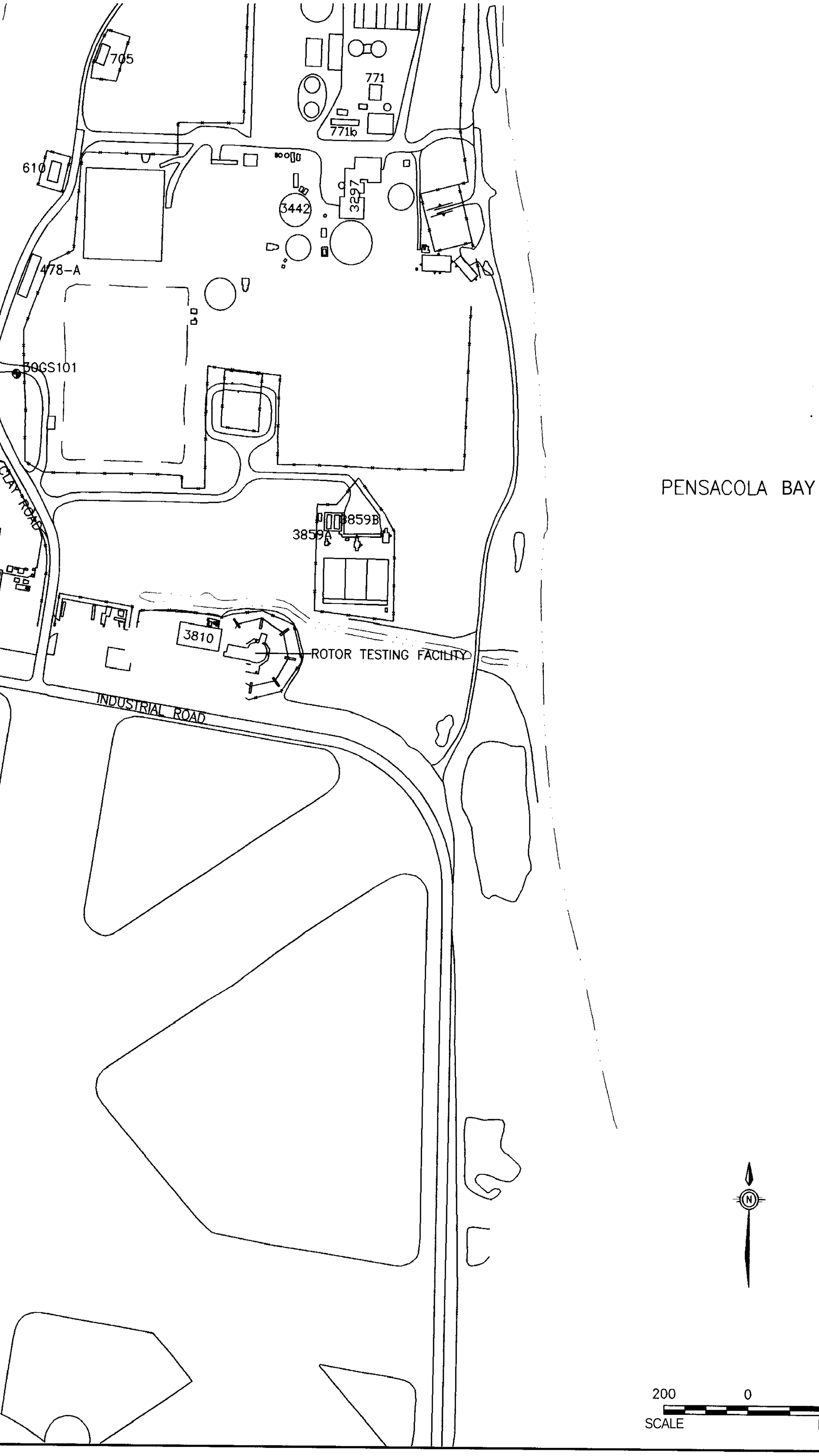
SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING


A. CUNNINGHAM
MURRAY ROAD
3464
3823
785
226
3673
3467
781
781N
12GS08
PAGE ROAD
689
365
3506
3844
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS45
30GS46
27GI02
27GS02
648
30GS50
30GS52
27GS07
27GS12
780
25GS08
25GS07
25GS05
25GS06
3215
25GS01
3376
743
25GS02
25GI02
709
25GS03
25GS09
25GI01
741
25GS04
225
30GI60
30GS39
2667
30GS43
30GS37
27GS01
27GS14
27GS15
27GS13
27GS19
27GS18
27GS16
27GS21
709A
27GS17
27GI05
27GS20
27GS09
27GS04
30GS61
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS08
27GI03
27GI01
1960
FARRAR ROAD
693
30GI09
30GS55
30GS56
30GS27
27GI06
30GS12
30GS11
30GS57
30GI58
30GI32A
30GS32A
30GS31
30GS33
649
30GS28
27GS10
27GS06
3607
27GI04
27GS05
3450
30GS157
30GS159
3833
30GI07
30GS29
GOLF
COURSE
30GI164
30GS165
30GS161
3220
30GS164
30GS166
30GS167
30GS162
30GS146
30GS163
682A
30GS168
30GS169
30GS172
30GS170
30GI170
30GS171
30GS173
681A
681
682
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
690
3261
691
3466
30GS123
30GI111
3437
TAYLOR ROAD
3252

12GS03
12GS02
12GS05
684
12GS06
11GI04
11GS03
26GS02
26GS03
26GS04
11GM15
12GS08
12GS09
455
12GS10
12GS16
12GS13
3444
3821
12GS15
12GS14
1GI02
1GS01
3445
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
705
610
478-A
11GI10
11GS09
11GI51
BELLINGER ROAD
30GS101
11GI15
25GS01
3376
736
11GI12
30GS103
CLAY ROAD
467
3493
3496
2654
11GM52
11GI14
3644
25GS06
3215
11GS13
25GS09
1621
3614
30GS105
3810
225
30GS154
3484
INDUSTRIAL ROAD
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
682A
30GS163
681A
681
682
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557


705
771
771b
610
3442
3297
478-A
30GS101
CLAY ROAD
3859B
3859A
3810
ROTOR TESTING FACILITY
INDUSTRIAL ROAD
PENSACOLA BAY
N
200
0
200
SCALE
FEET

11	
25	
27	

1 = FPD

11		
	11-G-1015	771
25		
	25-G-1001	225
	25-G-1002	231
27		
	27-G-1001	392
	27-G-1006	119

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING CHROMIUM GROUNDWATER EXCEEDANCES).

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER CHROMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE 1 INTERMEOIATE GROUNDWATER CHROMIUM EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER CHROMIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

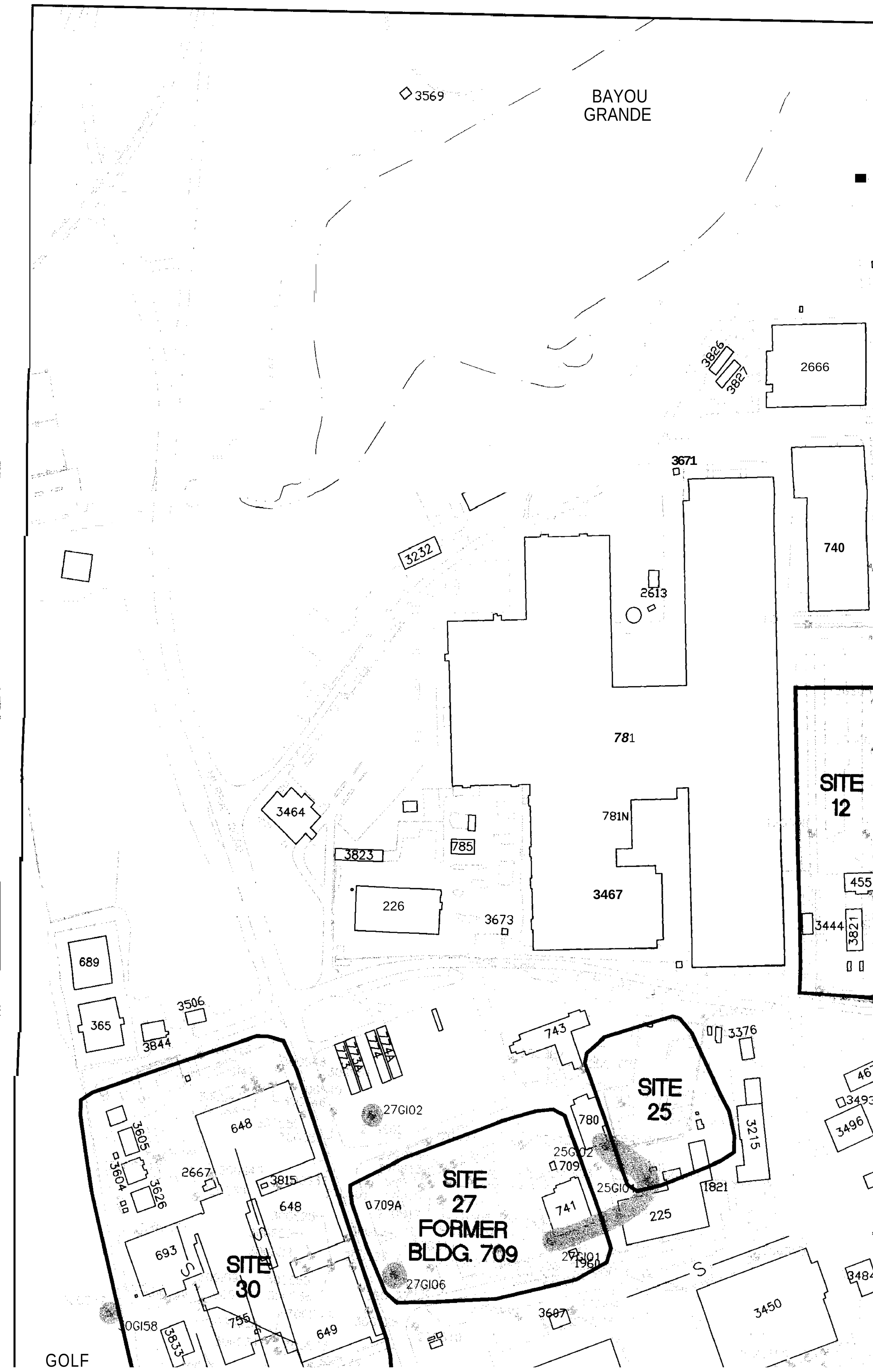
200 0 200
SCALE FEET

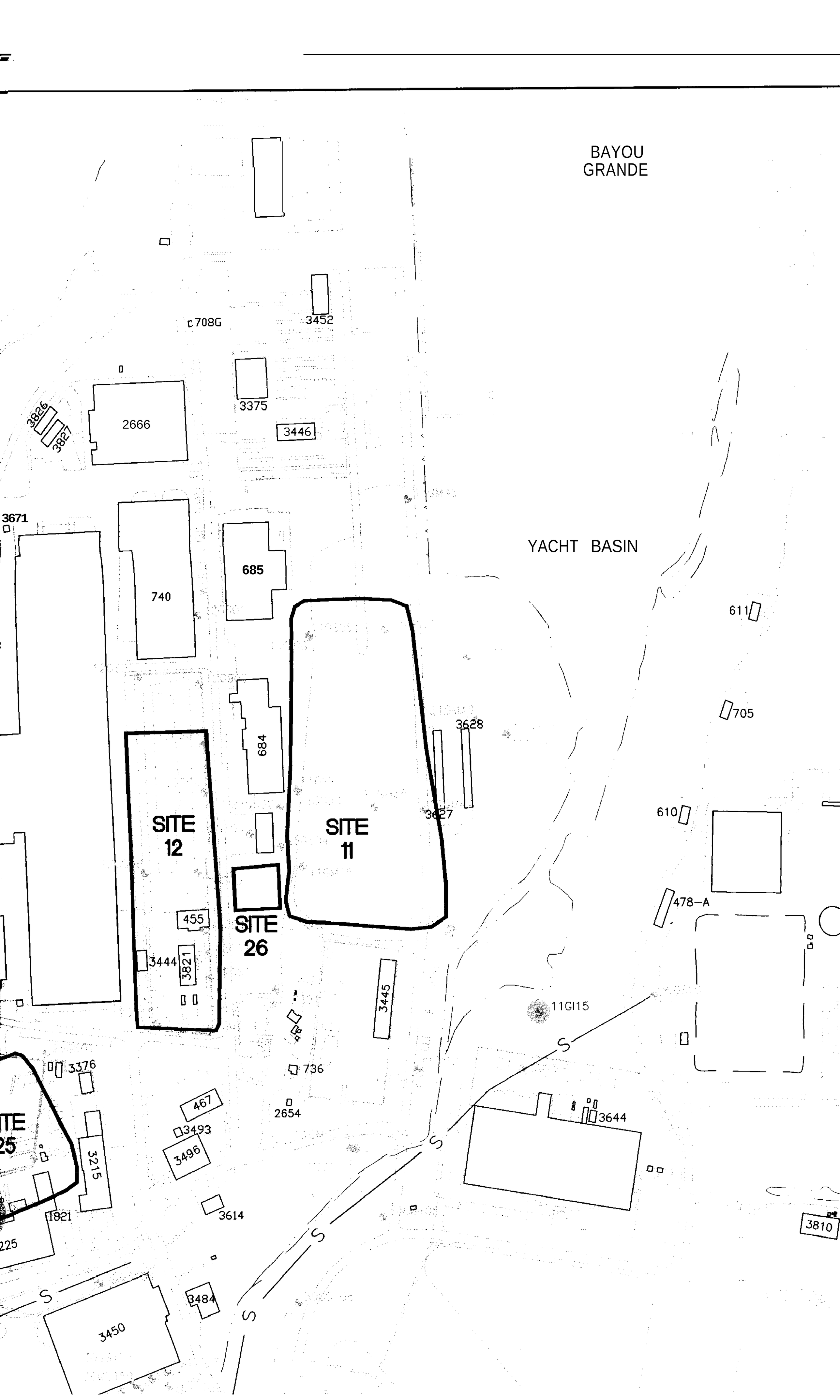
NAS PENSACOLA
OPERABLE UNIT 2

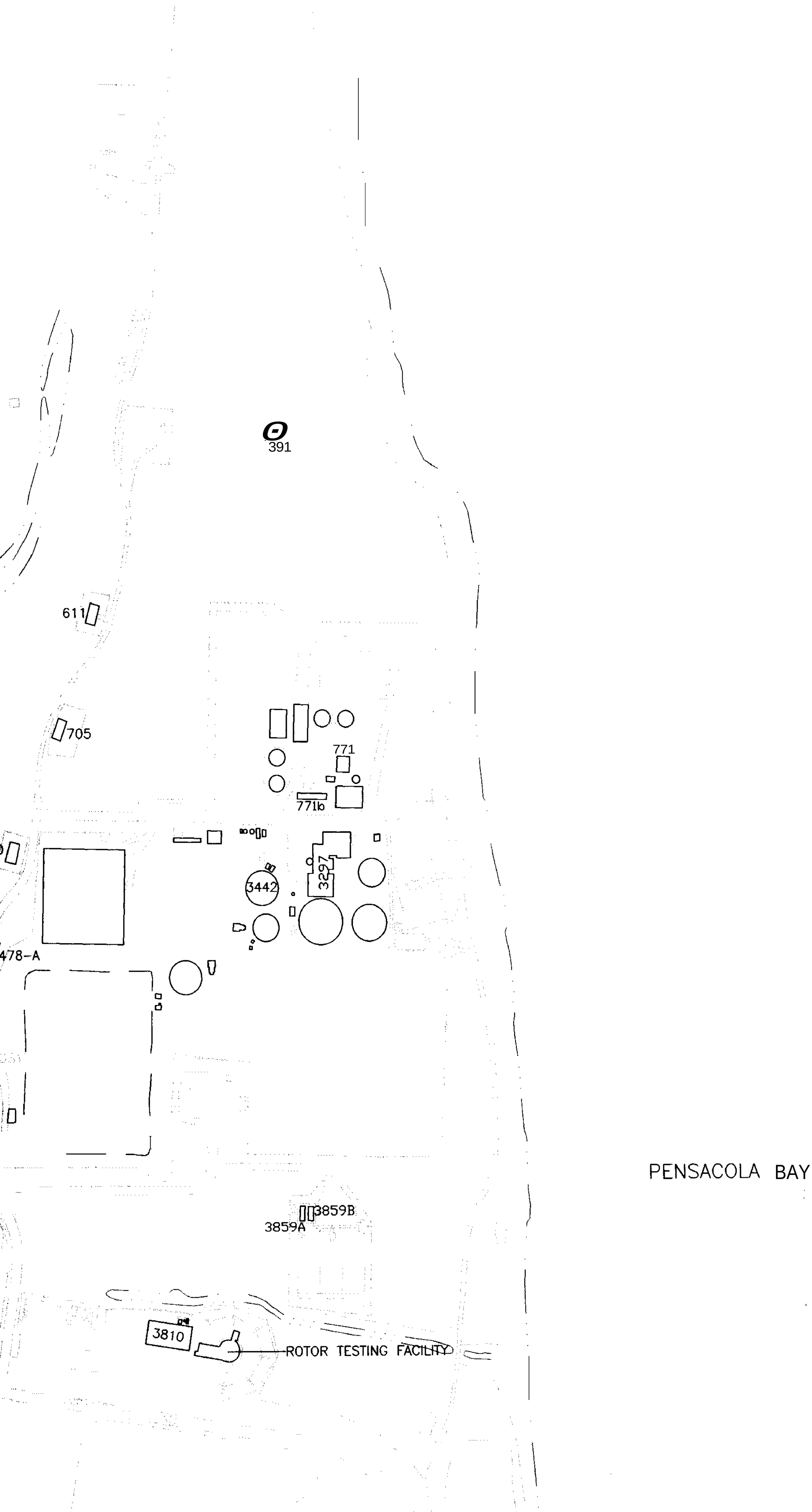
FIGURE 43
PHASE I INTERMEDIATE GROUNDWATER
CHROMIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2CH2	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
3826
3827
2666
3671
740
3232
2613
781
781N
3464
785
3823
226
3467
3673
SITE
12
455
3444
3821
689
365
3506
3844
773
773A
774
774A
743
3376
SITE
25
780
3215
27GI02
648
3605
3604
3626
2667
3815
648
25GI02
709
709A
SITE
27
FORMER
BLDG. 709
741
25GI0
1821
225
693
SITE
30
27GI01
1960
27GI06
755
649
3607
3450
3496
3484
GOLF


BAYOU
GRANDE
YACHT BASIN
708G
3452
3375
3446
2666
3826
3827
3671
740
685
684
611
705
610
3628
3627
SITE
12
SITE
11
SITE
26
455
3444
3821
3445
478-A
11GI15
3376
736
467
2654
3493
3496
3644
3215
3614
1821
3810
3484
3450



PHASE I IN GROUNDW EXCEE	
Site	Monitoring ID
UNITS (µg/L)	
11	
	11GI15
25	
	25GI0
	25GI0
27	
	27GI0
	27GI0
	27GI0
30	
	30GI16
	30GI5

1 = FPDWS-FLORIDA PRIM
2 = USEPA MAXIMUM CO

LEGE

SITE 27

S

743

PHASE I INTERMEDIATE GROUNDWATER LEAD EXCEEDANCES

Site	Monitoring Well ID	Lead (Pb)
UNITS (µg/L)		15 (1) (2)
11		
	11GI15	94 J
25		
	25GI01	45.7 J
	25GI02	28.3
27		
	27GI01	84.3 J
	27GI02	34.9
	27GI06	21.1
30		
	30GI164	27.3
	30GI58	15 J

1 = FPDWS–FLORIDA PRIMARY DRINKING WATER STANDARD
2 = USEPA MAXIMUM CONTAMINANT LEVEL

PENSACOLA BAY

LEGEND

SITE 27 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

CLOSED LAGOON

743 — BUILDING

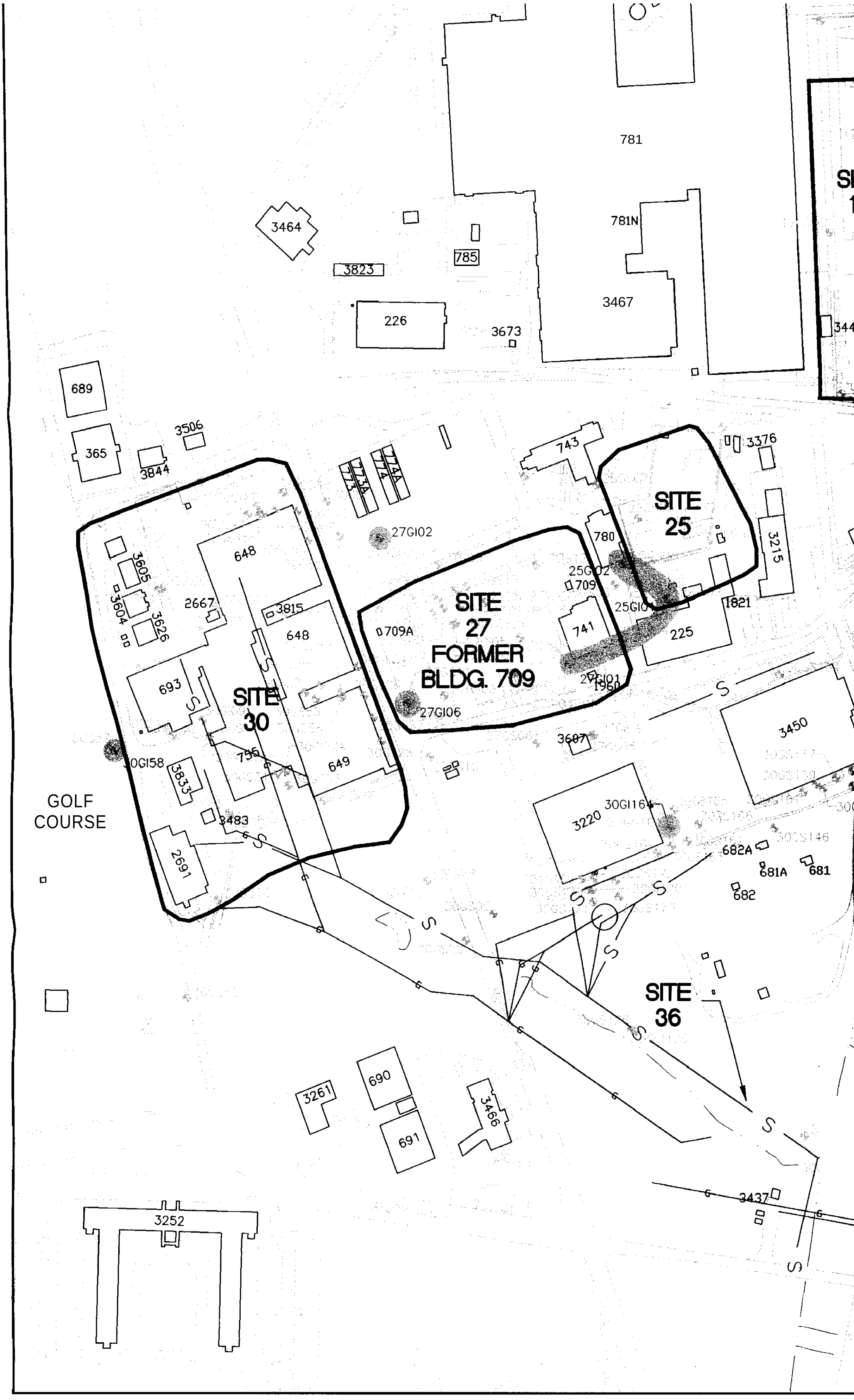
FENCE LINE

ROADS

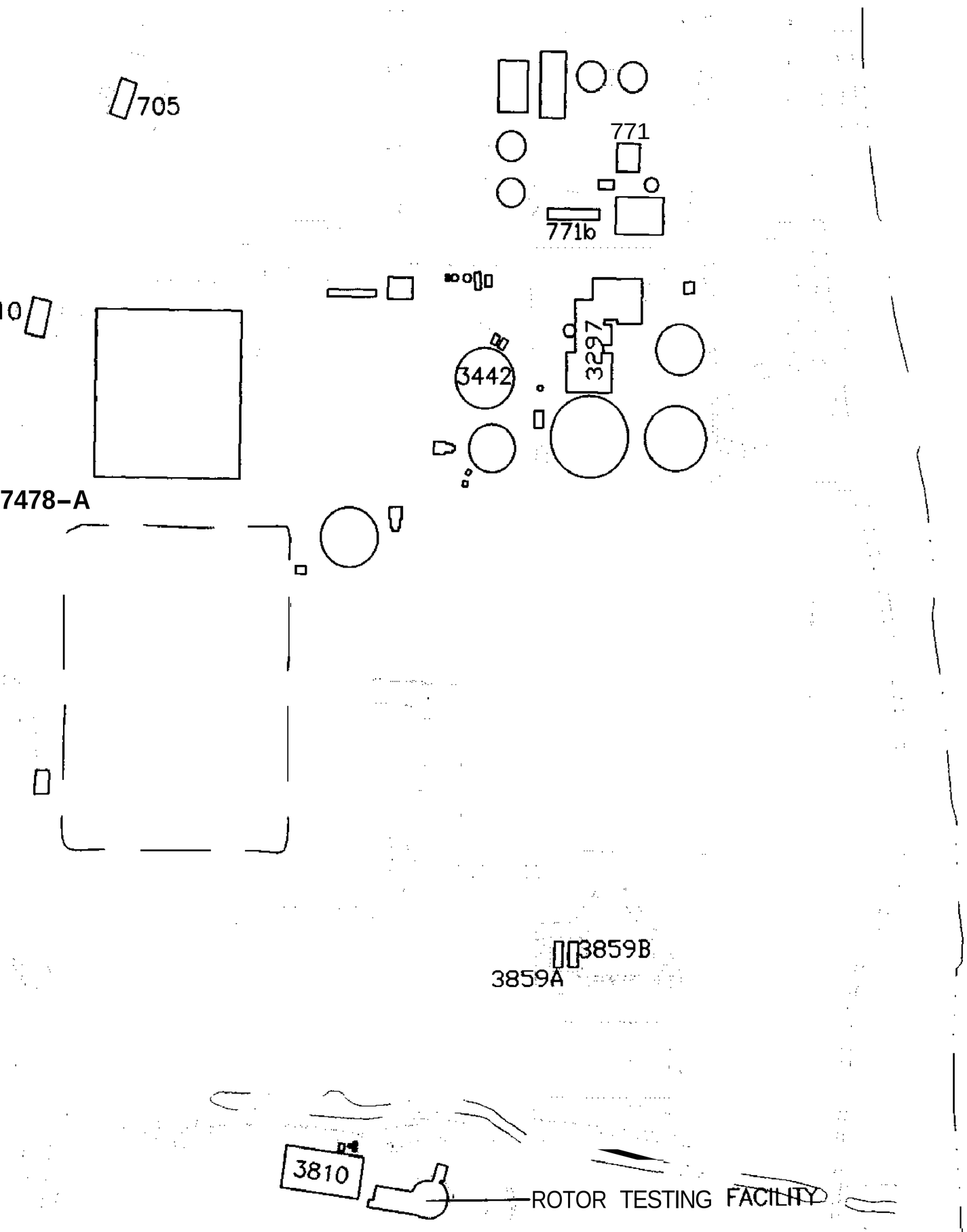
SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING GROUNDWATER LEAD EXCEEDANCES)


781
781N
3464
3823
785
3467
226
3673
689
365
3506
3844
743
3376
773A
774A
774
27GI02
SITE
25
780
3215
648
3605
3604
3626
2667
3815
25GI02
709
25GI0
1821
709A
741
225
SITE
27
FORMER
BLDG. 709
27GI01
1960
27GI06
693
SITE
30
755
649
3607
3450
30GI58
3833
3483
3220
30GI164
GOLF
COURSE
2691
682A
681A
681
682
SITE
36
690
3261
691
3466
3437
3252

SITE 12
SITE 11
SITE 26
SITE 25
SITE 36
684
3628
3627
705
610
478-A
455
3444
3821
3445
11GI15
3376
736
467
2654
3493
3496
3644
3215
1821
225
3614
3484
3450
682A
681A
681
682
3189
3437
3557
0



	25G
	25G
27	
	27G
	27G
	27G
30	
	30G
	30G

1 = FPDWS–FLORIDA P
2 = USEPA MAXIMUM C

PENSACOLA BAY

LEG

SITE 27

—S—

743

1. HIGHLIGHTED MONITORIN
LEAD EXCEEDANCES.
GRAY WELLS INDICATE
2. J VALUE INDICATES CO
3. ALL CONCENTRATIONS E

N

200 0 200
SCALE FEET

	25GI01	45.7 J
	25GI02	28.3
27		
	27GI01	84.3 J
	27GI02	34.9
	27GI06	21.1
30		
	30GI164	27.3
	30GI58	15 J

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD
2 = USEPA MAXIMUM CONTAMINANT LEVEL

PENSACOLA BAY

LEGEND

SITE 27 — SITE LOCATION

—S— SITE 36

SURFACE WATER BODY

CLOSED LAGOON

743 — BUILDING

FENCE LINE

ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (EXHIBITING GROUNDWATER LEAD EXCEEDANCES).

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD AND/OR USEPA MAXIMUM CONTAMINANT LEVEL.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER LEAD EXCEEDANCES,
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER LEAD EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

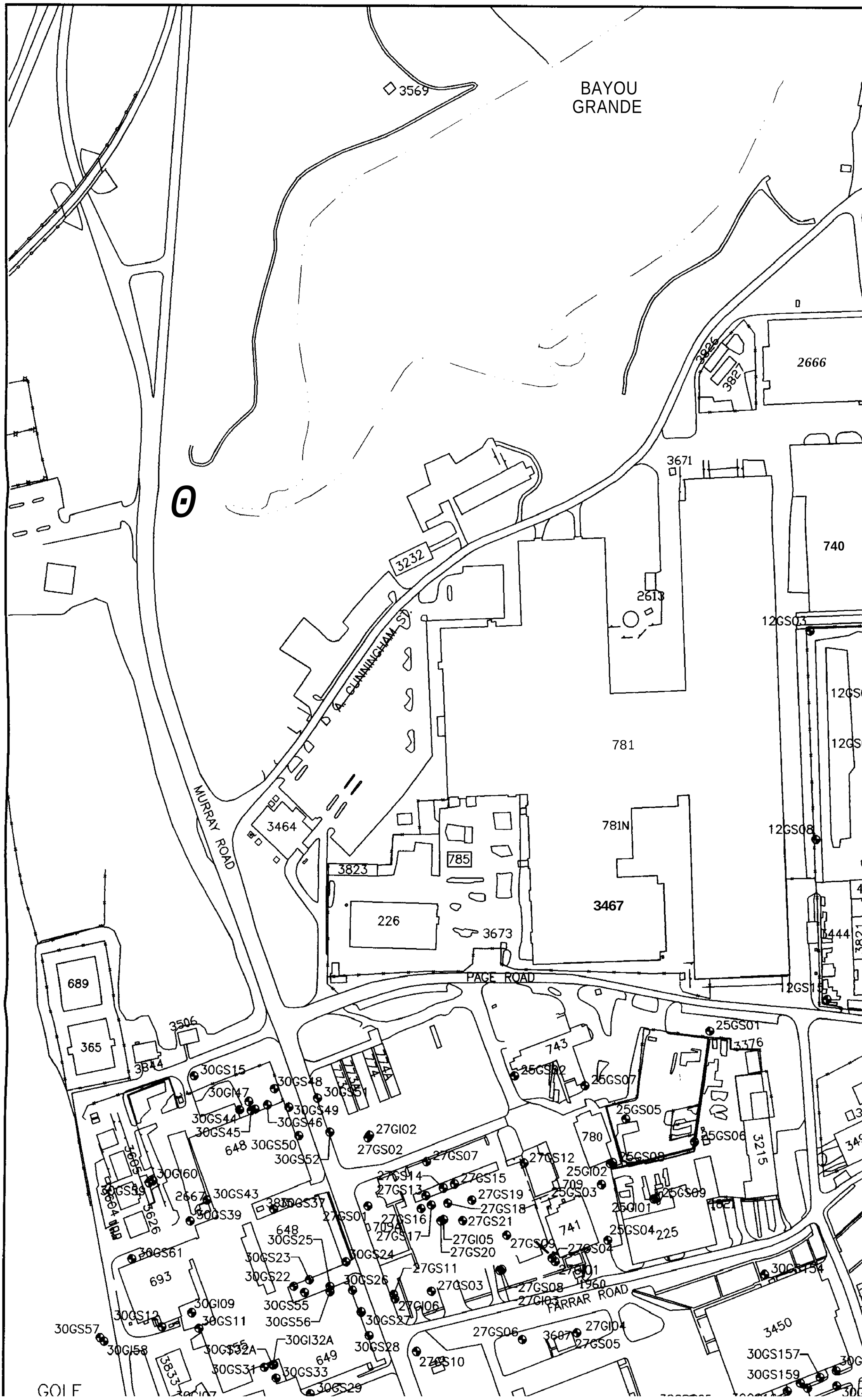
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 44
PHASE I INTERMEDIATE GROUNDWATER
LEAD EXCEEDANCES

Dr by: K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 10/09/97	DWG Name: 59OU2GMW	Of 1

SECTIONS TO FOLLOW ON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GRANDE
3569
2666
3826
3827
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2613
12GS03
3232
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
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PAGE ROAD
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3215
30GI60
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25GI02
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FARRAR ROAD
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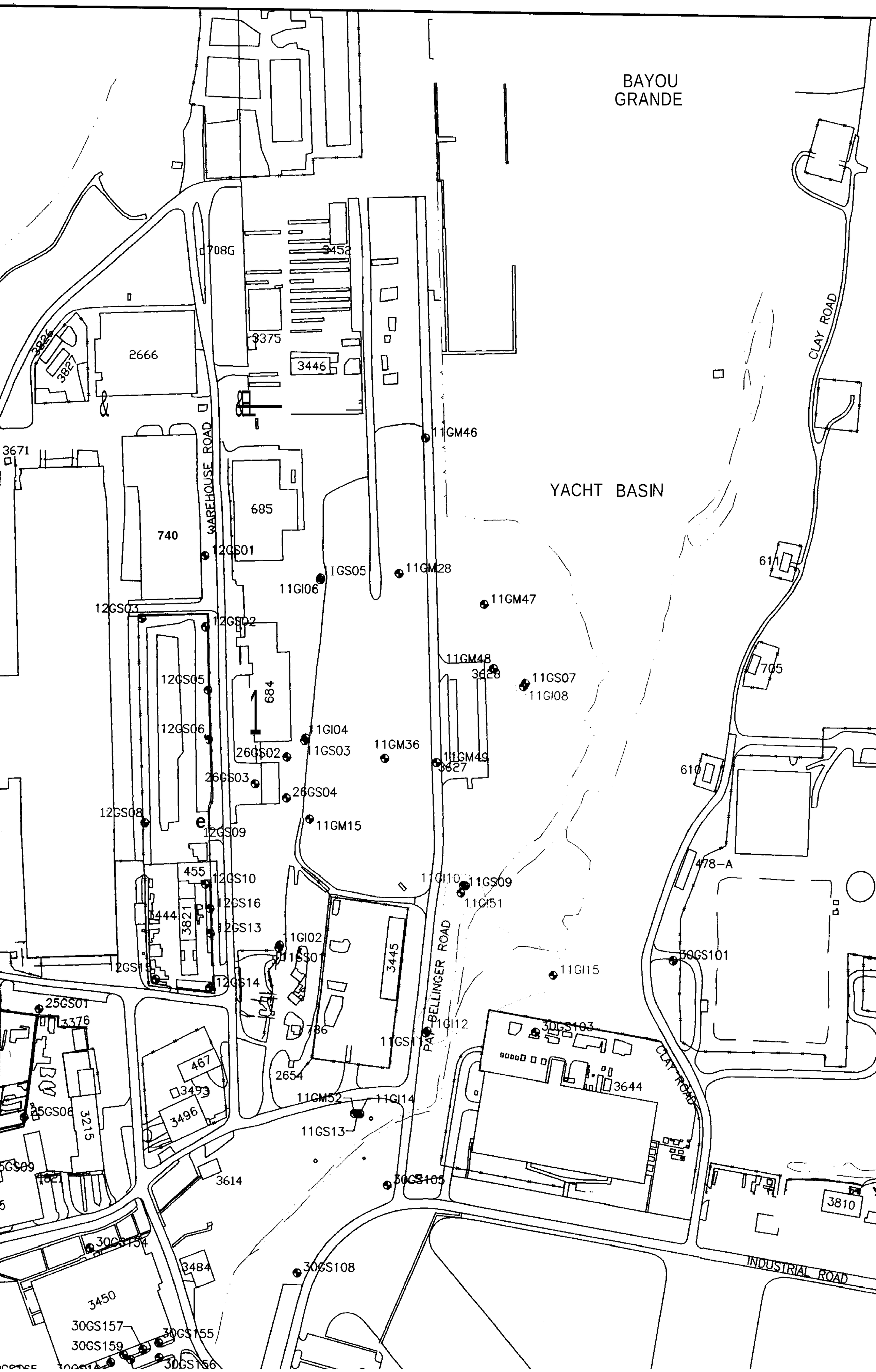
BAYOU
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CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
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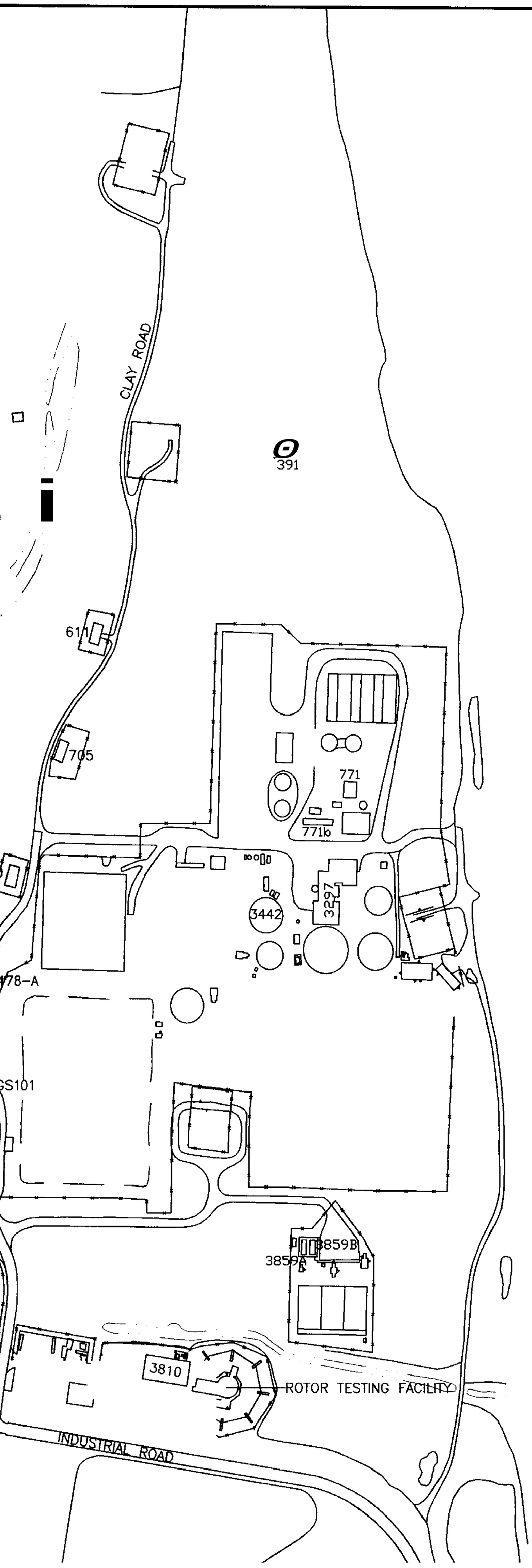
478-A
30GS101



PHASE I INTERME SODIUM E	
Site	Monitoring ID
UNITS (µg/L)	
11	
	11-G-I
	11-G-I
	11-G-I
	11-G-I
	11-G-I
30	
	30-G-I

1 = FPDWS-FLORIDA PRIM

PENSACOLA BAY

PHASE I INTERMEDIATE GROUNDWATER SODIUM EXCEEDANCES

Site	Monitoring Well ID	Sodium (Na)
UNITS (µg/L)		160000 (1)
11		
	11-G-1008	595000
	11-G-1010	178000
	11-G-1012	1 160000
	11-G-1015	275000
	11-G-1051	1220000
30		
	30-G-1111	344000

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

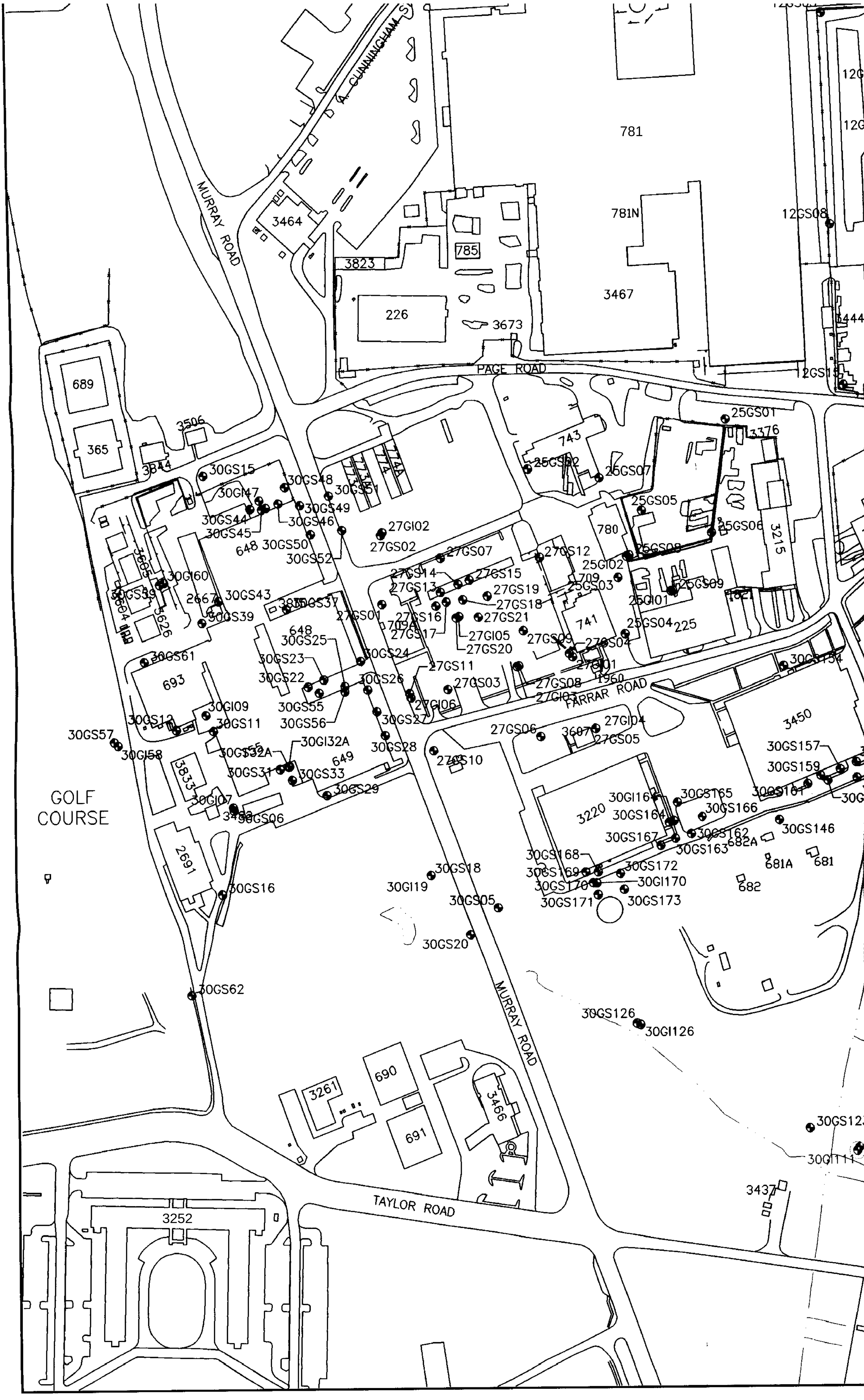
PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

74s BUILDING


A. CUNNINGHAM
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
3467
785
3823
3464
226
3673
689
365
3506
3844
743
780
741
709
1960
693
3833
2691
3220
3450
3215
225
690
691
3261
3466
3252
3437
682A
681A
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682
3444
3376
3626
3605
3604
2667
648
649
3607
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12GS13
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30GS62
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30GI164
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30GS170
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30GI111

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684
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11GM15
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11GM36
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3627
705
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478-A
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11GI51
30GS101
11GI15
BELLINGER ROAD
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30GS103
CLAY ROAD
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2654
11GM52
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INDUSTRIAL ROAD
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30GS163
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30GI113
30GS113
26
INDUSTRIAL ROAD
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30GS123
30GS111
30GI111
3437
30GS118
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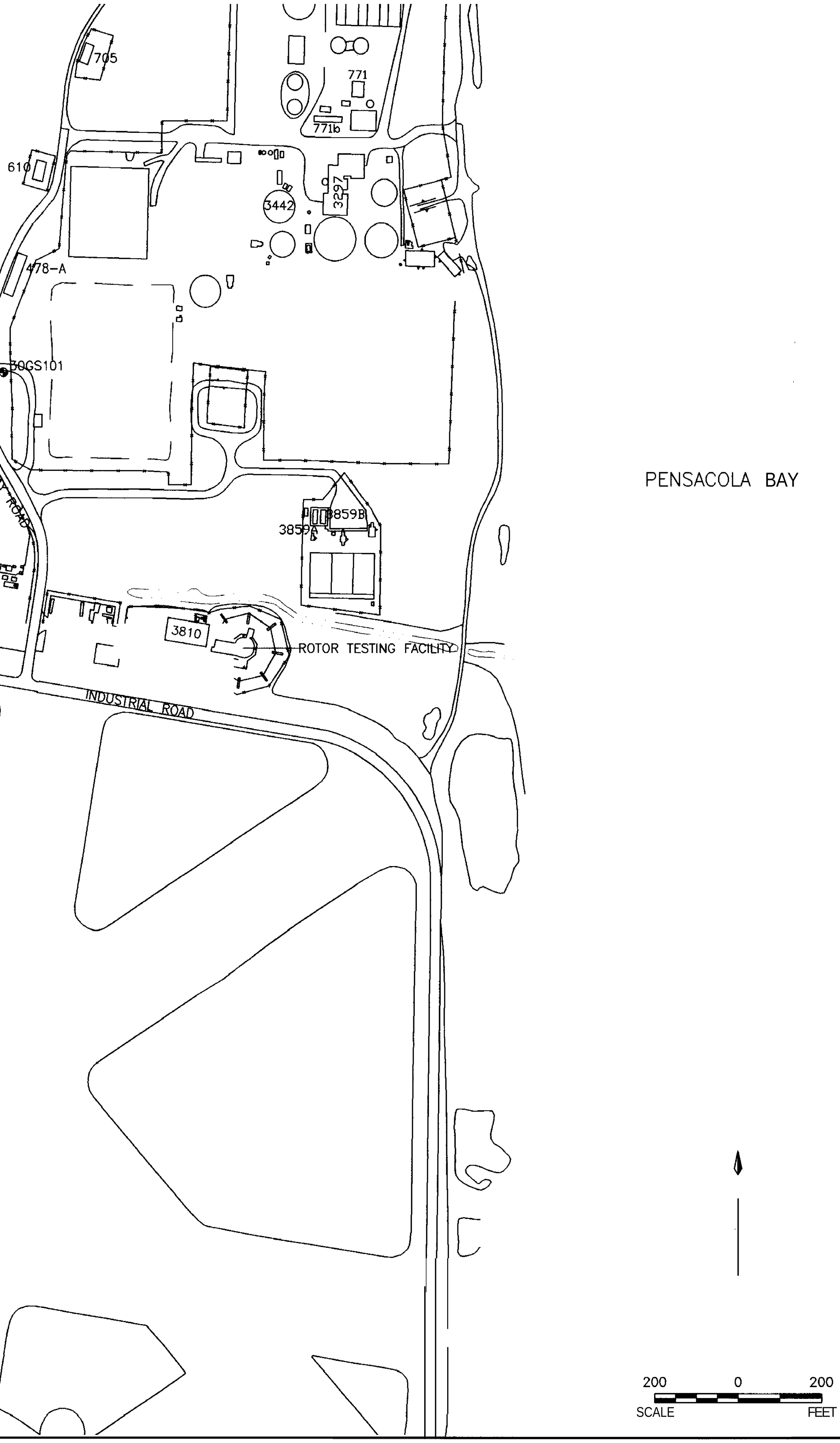
1 = FPDWS-FLORID



1. HI
IN
GR
SC
2. J
3. At

11		
	11-G-1008	595000
	11-G-1010	178000
	11-G-1012	1160000
	11-G-1015	275000
	11-G-1051	1220000
30		
	30-G-1111	344000

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING SODIUM GROUNDWATER EXCEEDANCES).
- APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER SODIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER SODIUM EXCEEBANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER SODIUM GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

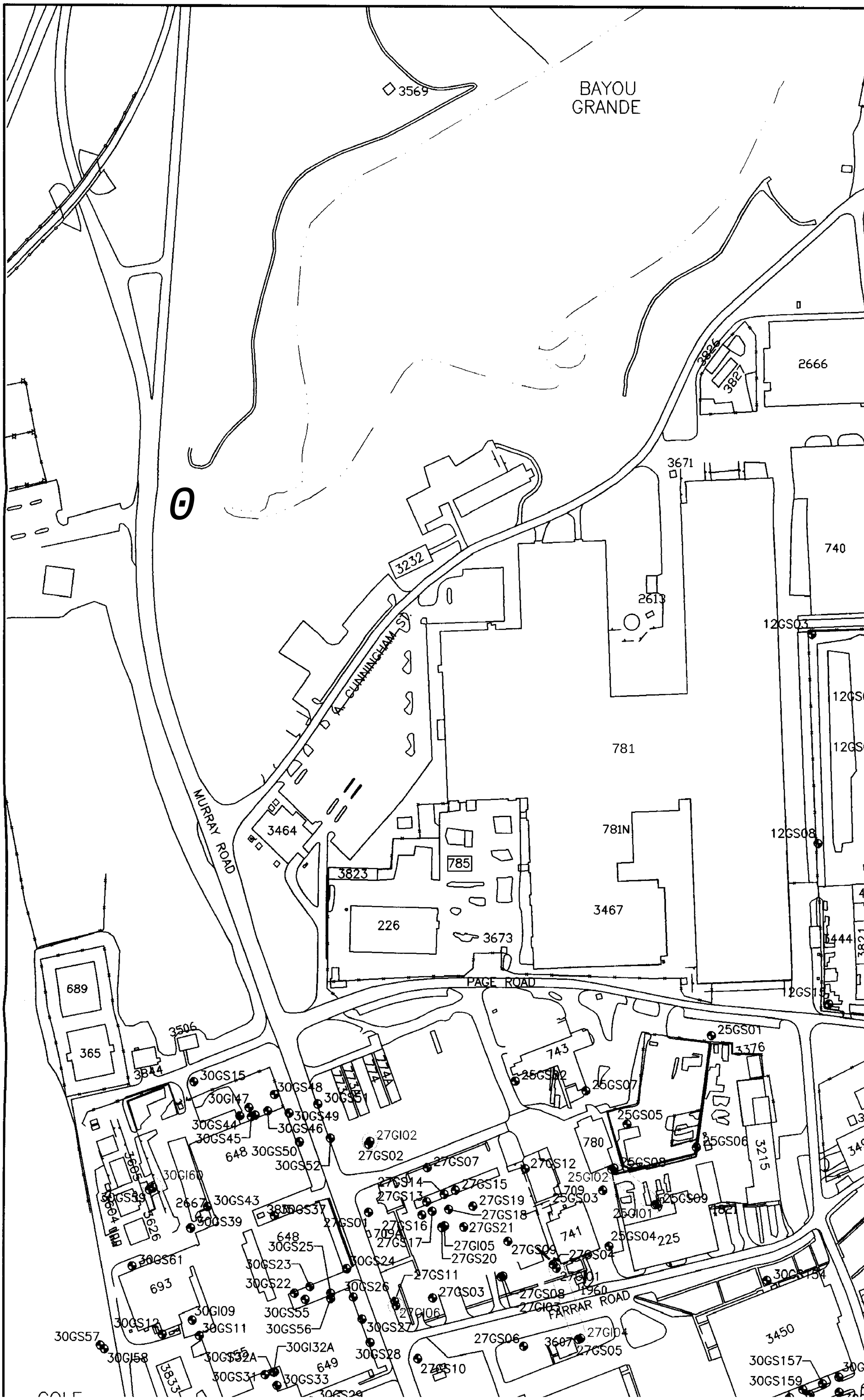
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 45
PHASE I INTERMEDIATE GROUNDWATER
SODIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	OWG Name: 59OU2SOD	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
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3232
A. CUNNINGHAM ST.
2613
12GS03
781
MURRAY ROAD
3464
781N
12GS08
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27GS18
25GI01
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FARRAR ROAD
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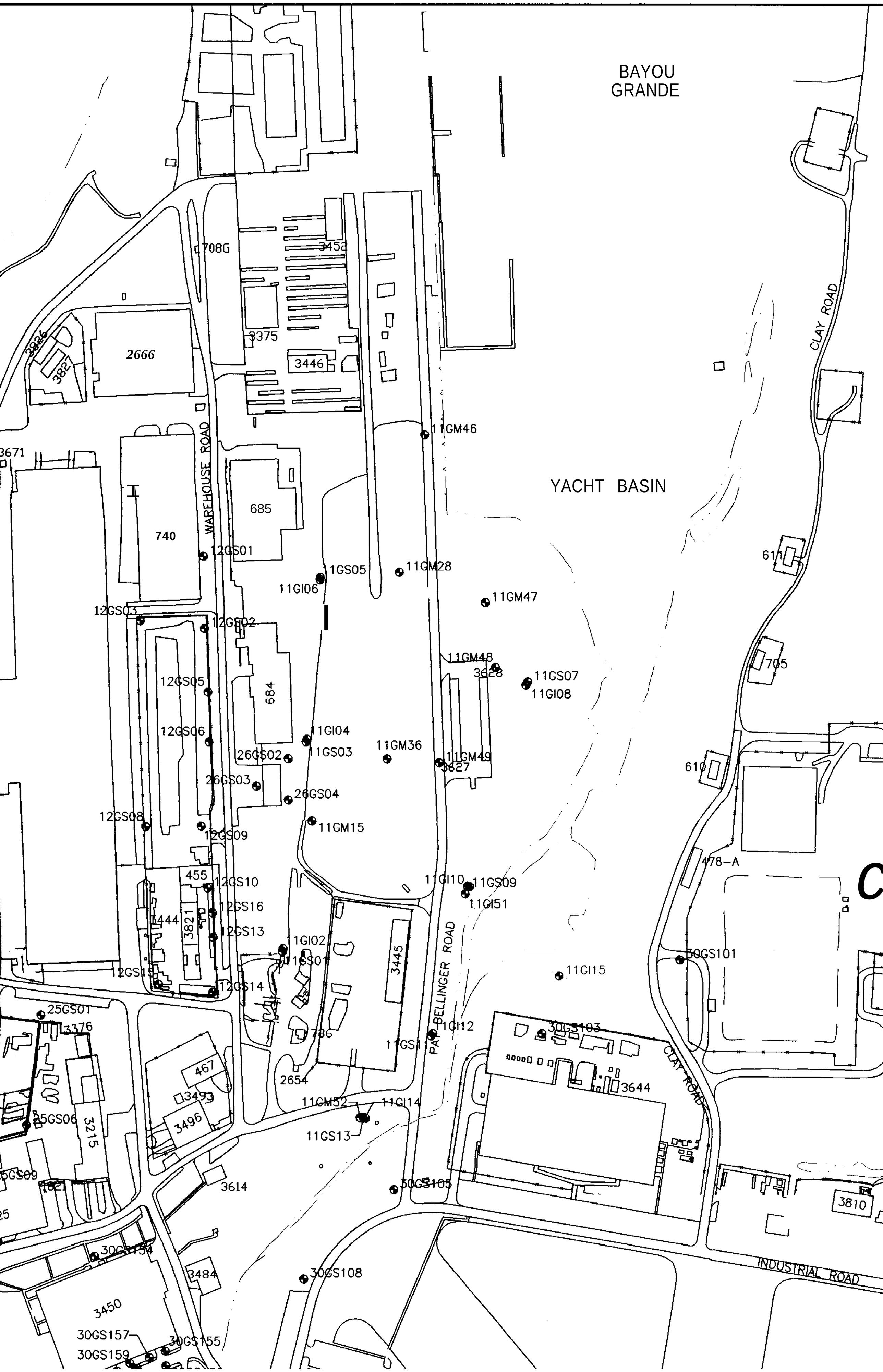
BAYOU
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YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
BELLINGER ROAD
INDUSTRIAL ROAD
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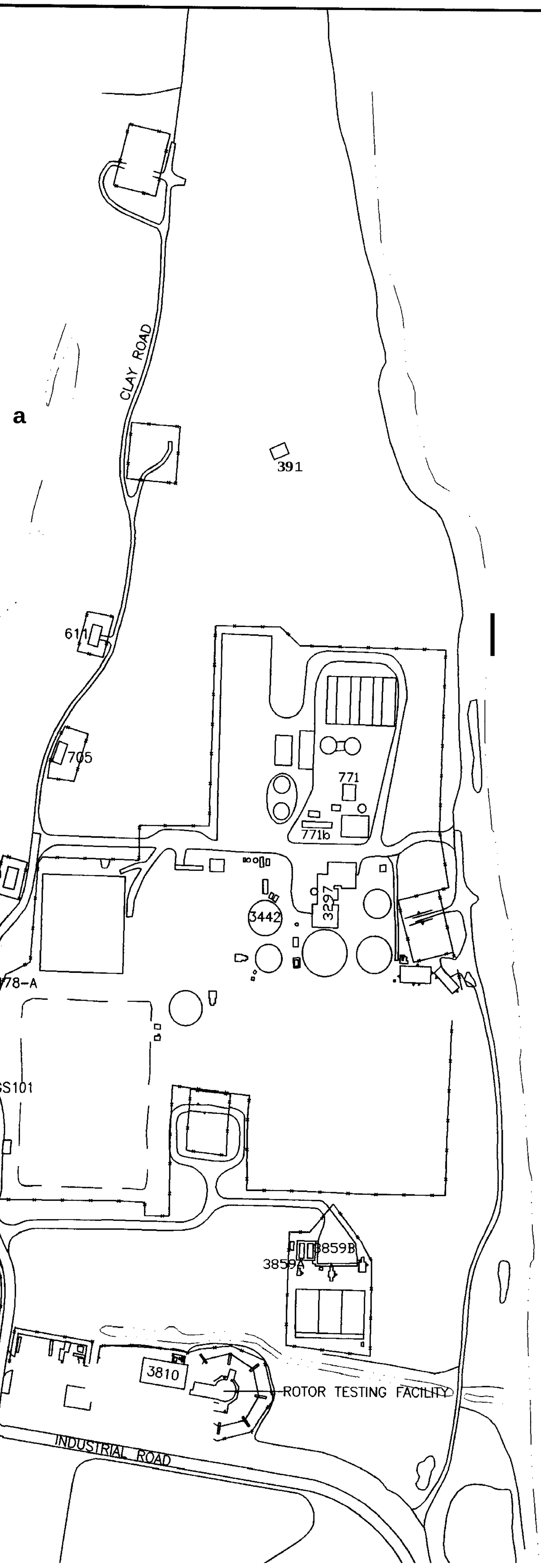


| PHASE II
VA |
|---|
| Site | M |
| UNITS (μg |
| 11 | |
| | |
| 25 | |
| | |
| | |
| 27 | |
| | |
| | |
| | |
| | |
| 30 | |
| | |

1 = FGGC-FLO

PENSACOLA BAY

PHASE I INTERMEDIATE GROUNDWATER VANADIUM EXCEEDANCES		
Site	Monitoring Welt ID	Vanadium (V)
UNITS (µg/L)		49 (1)
11		
	11-G-1015	489
25		
	25-G-1001	282
	25-G-1002	284
27		
	27-G-1001	260
	27-G-1002	64.1
	27-G-1004	98
	27-G-1006	149
30		
	30-G-1060	61 J

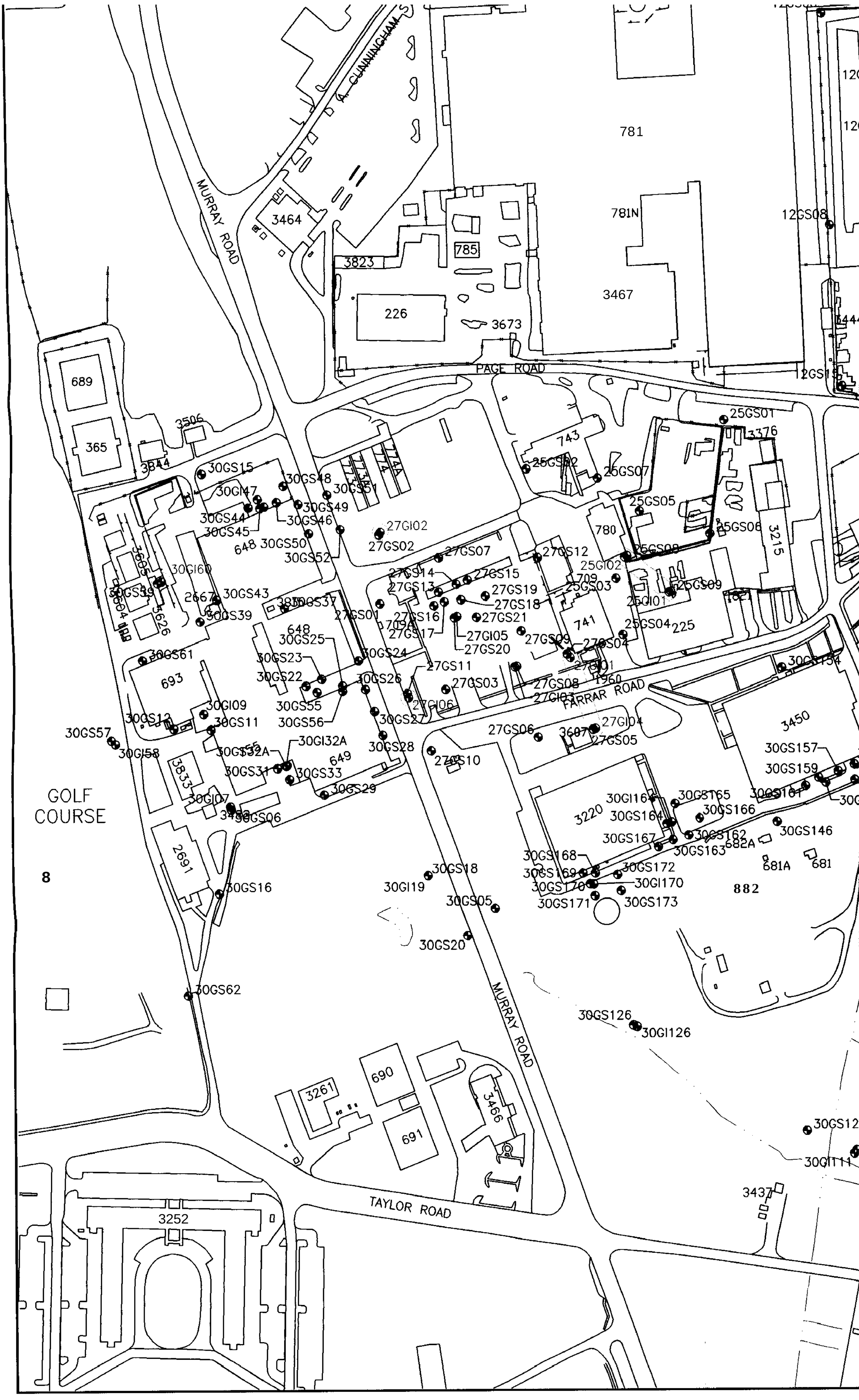
1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON


MURRAY ROAD
CUNNINGHAM
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
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781N
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3467
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3252
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12GS03
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610
478-A
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BELLINGER ROAD
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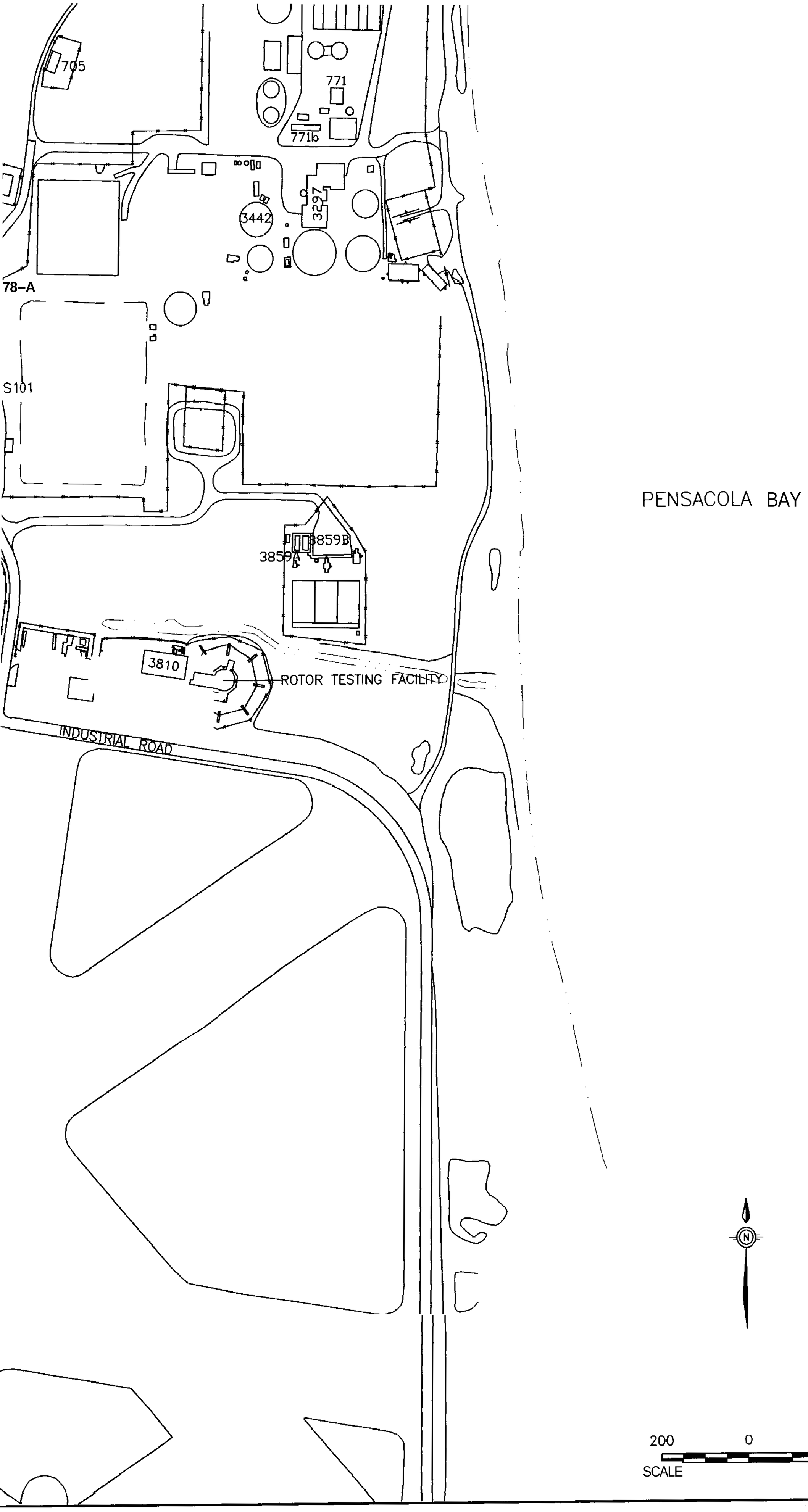
11GI12
30GS103
CLAY ROAD
3644
11GM52
11GI14
11GS13
30GS105
INDUSTRIAL ROAD



25	
27	
30	

1 = FGGC-FLO

1. HIGHLIGHT
INTERMED
GRAY WEL
VANADIUM
2. J VALUE
3, ALL CONC

25		
	25-G-1001	282
	25-G1002	284
27		
	27-G-1001	260
	27-G-1002	64.1
	27-G-1004	98
	27-G-1006	149
30		
	30-G-1060	61 J

1 = FGGC-FLORIDA GROUNDWATER GUIDANCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING VANADIUM GROUNDWATER EXCEEDANCES).
- APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER VANADIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER VANADIUM EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER VANADIUM GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

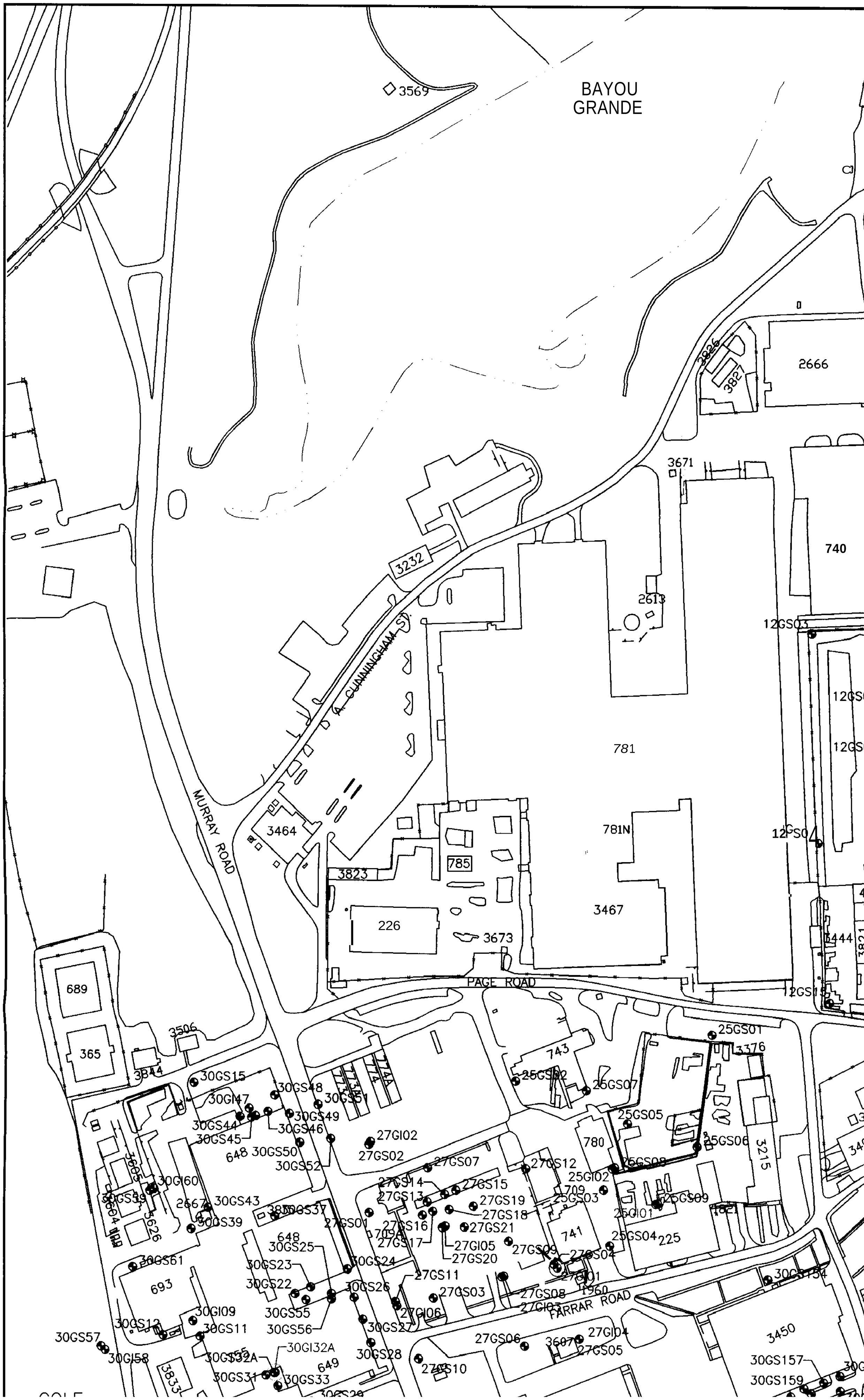
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 46
PHASE I INTERMEDIATE GROUNDWATER
VANADIUM EXCEEDANCES

Dr by K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2VA2	Of I

SECTIONS TO FOLLOW ON


BAYOU GRANDE
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A. CUNNINGHAM ST.
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MURRAY ROAD
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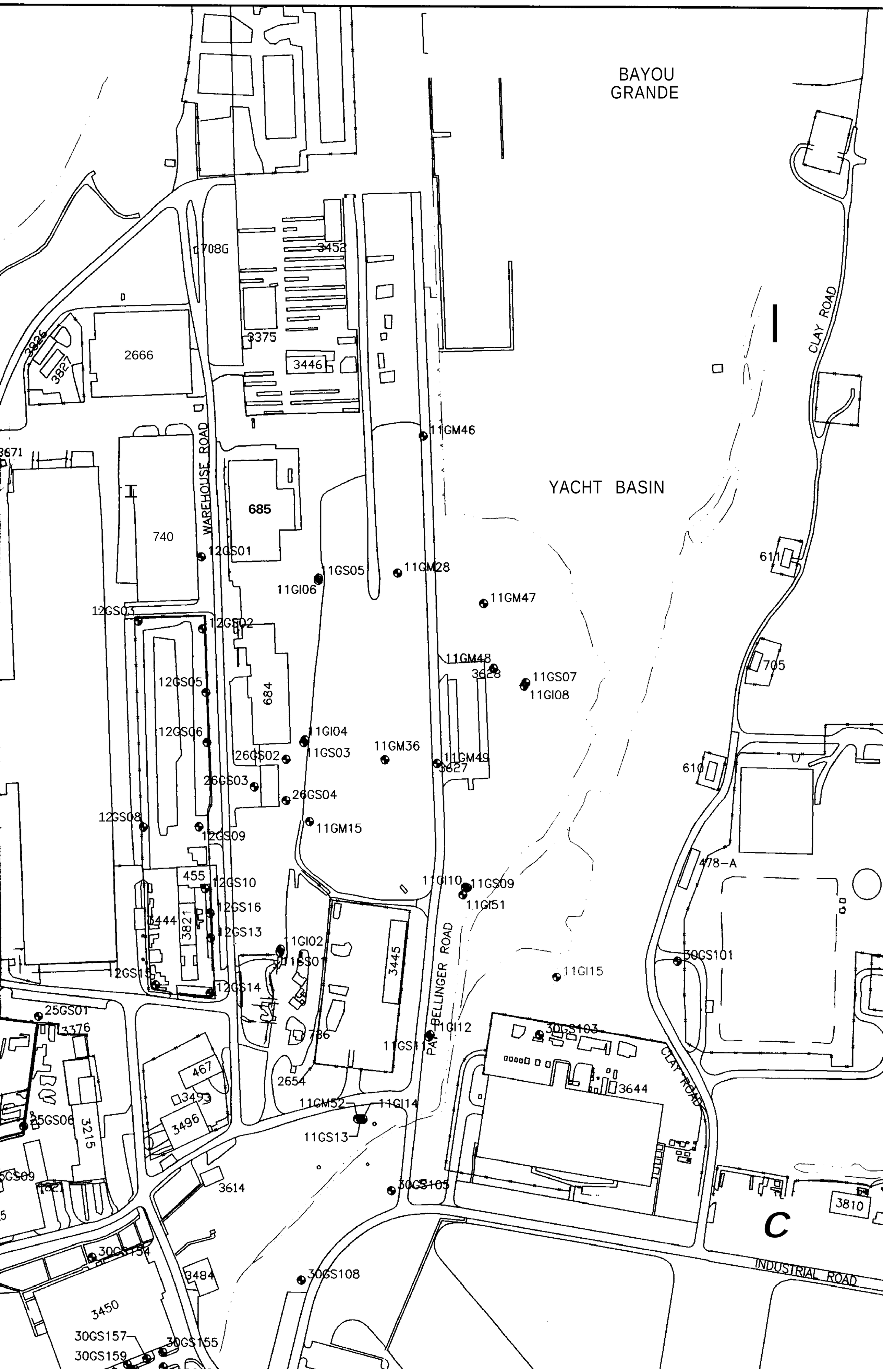
BAYOU
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YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
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11GM49
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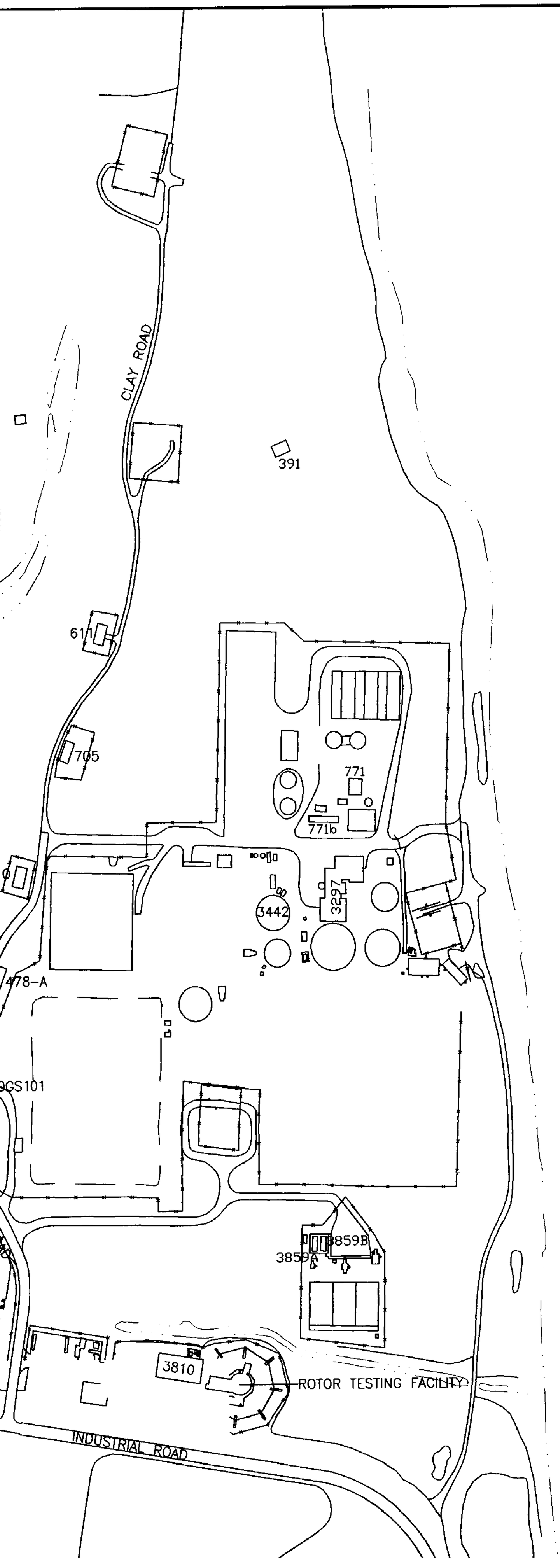
478-A



PHASE I INT BERYLLIUM, CADM	
Site	Monitoring Well ID
UNITS (µg/L)	
11	
	11-G-I015
25	
	25-G-I001
27	
	27-G-I001
30	
	30-G-I32A

1 = FPDWS-FLORIDA PRIMARY DRI

PENSACOLA BAY

APPROXI
NICKEL

PHASE I INTERMEDIATE GROUNDWATER BERYLLIUM, CADMIUM, AND NICKEL EXCEEDANCES

Site	Monitoring Well ID	Beryllium (Be)	Cadmium (Cd)	Nickel (Ni)
UNITS (µg/L)		4 (1)	5 (1)	100 (1)
11				
	11-G-1015	11		512
25				
	25-G-1001		6.1	112
27				
	27-G-1001			110
30				
	30-G-132A		7.5	

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

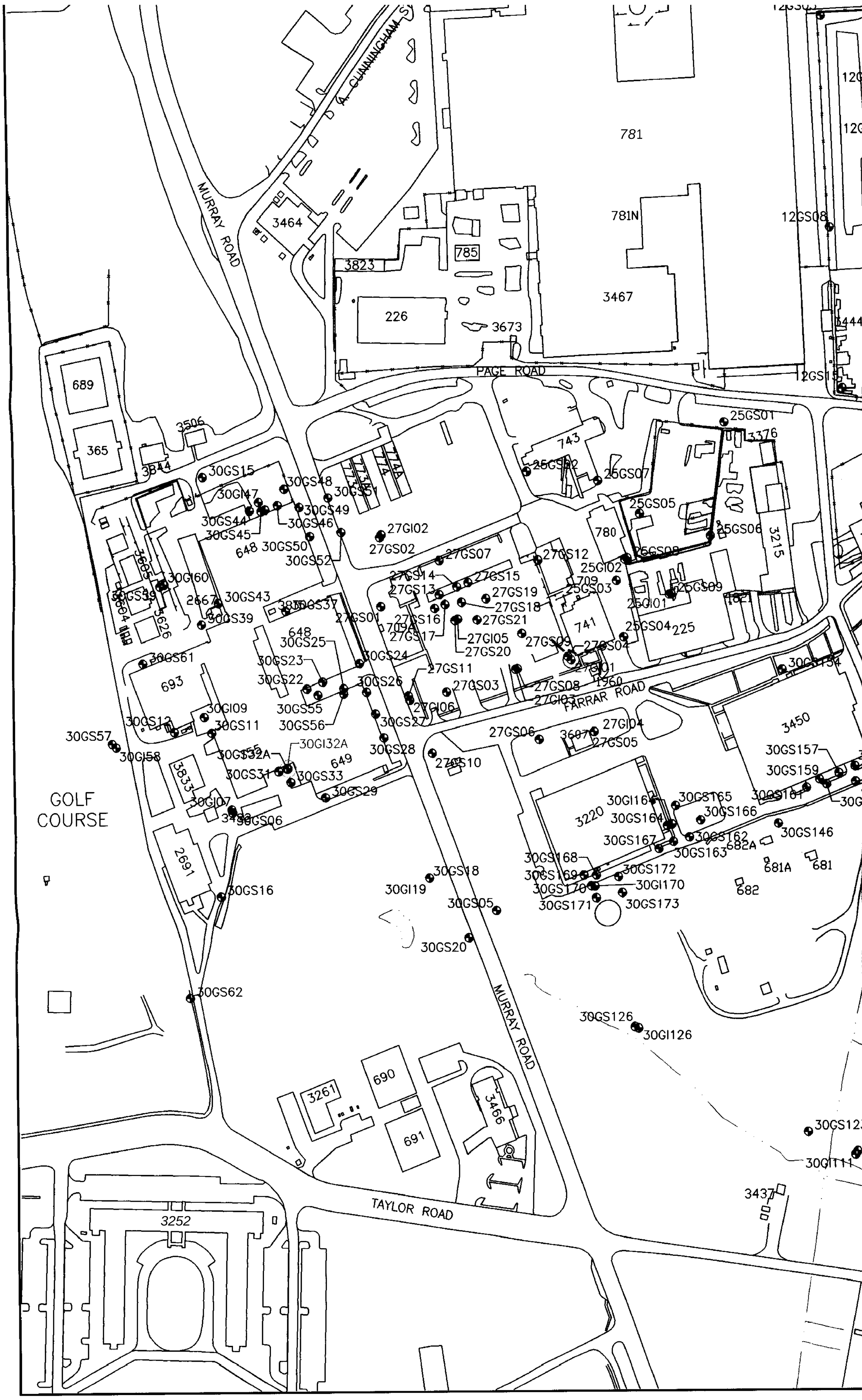
ROADS

SIDEWALKS

GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL 6 EXHIBITING BERYLLIUM, CADMIUM, AND/OR NICKEL GROUN WATER EXCEEDANCES).

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER BERYLLIUM AND NICKEL CONCENTRATIONS EXCEEDING FLORIDA PRIMARY DRINKING WATER STANDARDS.


MURRAY ROAD
A. CUNNINGHAM ST
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
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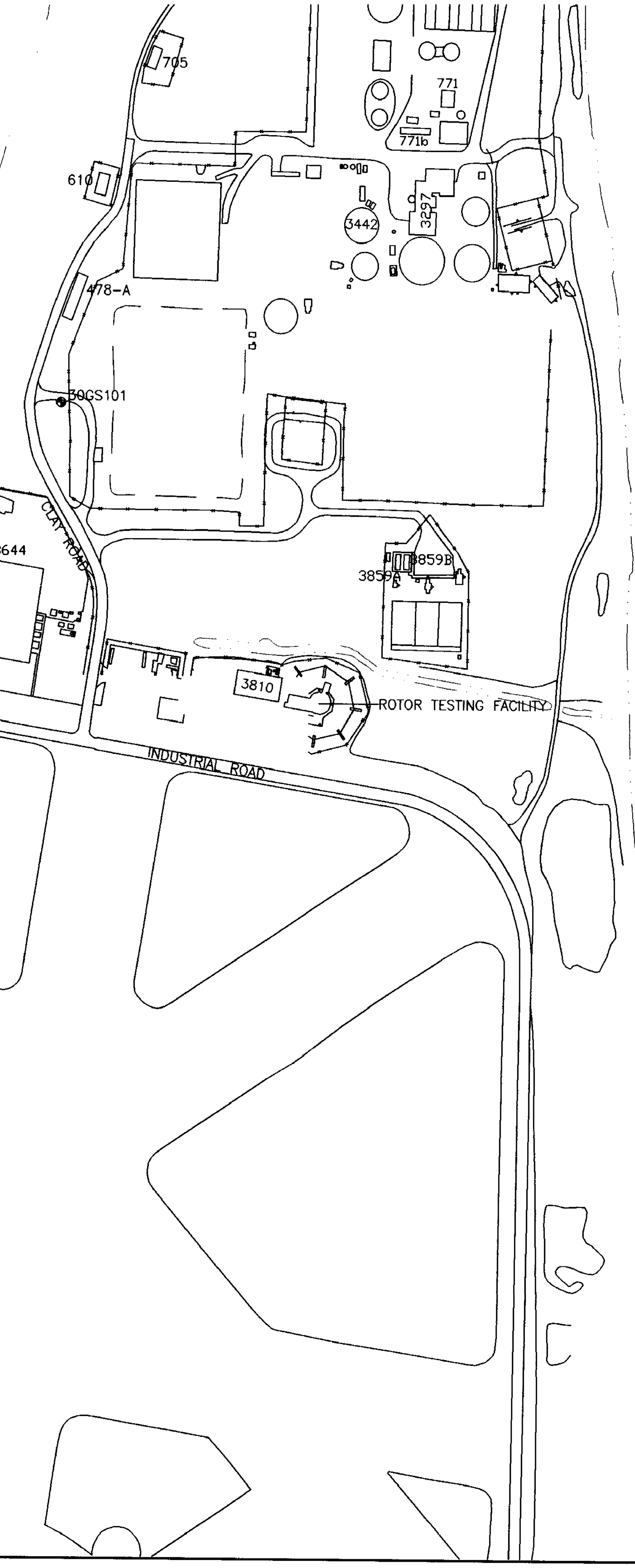

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1 = FPDWS-FLORI

PENSACOLA BAY

1. HIGHL
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2. J VAL
3. ALL C

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SCALE FEET

	11-G-1015	11		512
25				
	25-G-1001		6.1	112
27				
	27-G-1001			110
30				
	30-G-132A		7.5	

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 — BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING BERYLLIUM, CADMIUM, AND/OR NICKEL GROUNDWATER EXCEEDANCES).

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER BERYLLIUM AND NICKEL CONCENTRATIONS EXCEEDING FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER CADMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER NICKEL CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF PHASE I INTERMEDIATE GROUNDWATER CADMIUM AND NICKEL CONCENTRATIONS EXCEEDING FLORIDA PRIMARY DRINKING WATER STANDARDS.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE I INTERMEDIATE GROUNDWATER BERYLLIUM, CADMIUM, AND/OR NICKEL EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF PHASE I INTERMEDIATE GROUNDWATER BERYLLIUM, CADMIUM, AND/OR NICKEL EXCEEDANCES,
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

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SCALE FEET

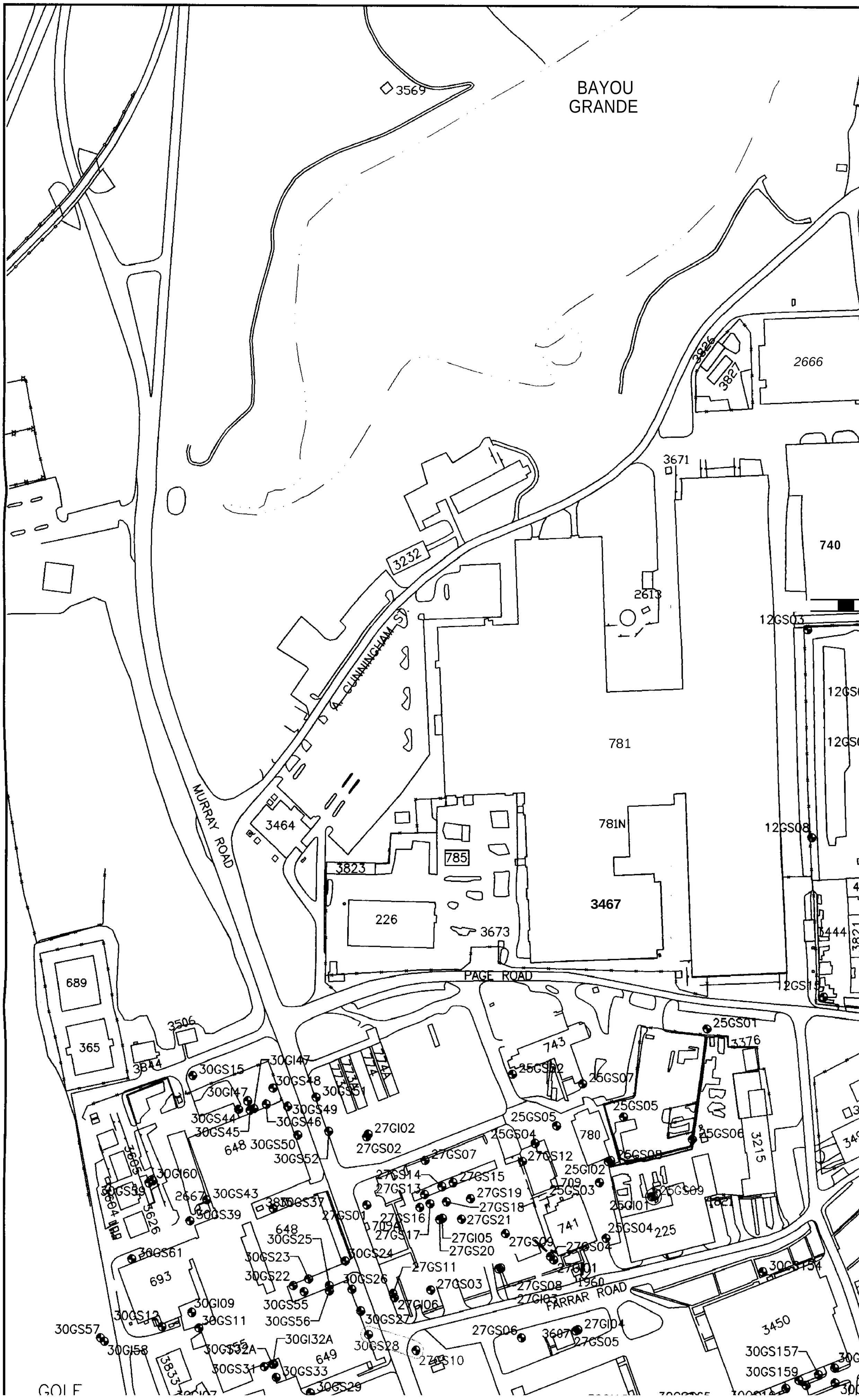
NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 47
PHASE I INTERMEDIATE GROUNDWATER
BERYLLIUM, CADMIUM,
AND/OR NICKEL EXCEEDANCES

Dr by: K. BRONSON/AH	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2BCN	Of 1

SECTIONS TO FOLLOW ON

SUBSEQUENT IMAGES


BAYOU
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A. CUNNINGHAM ST.
781
MURRAY ROAD
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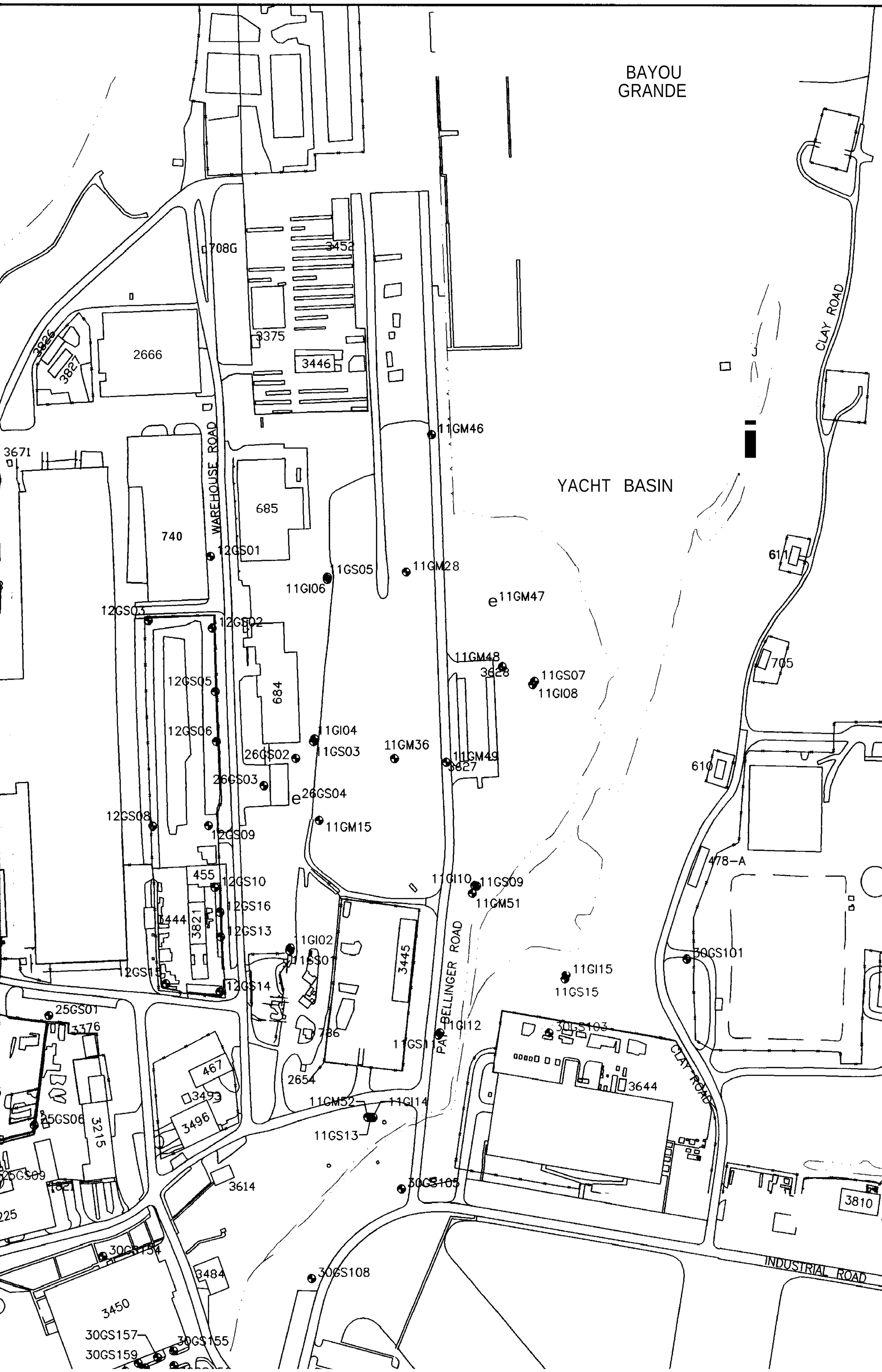
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YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
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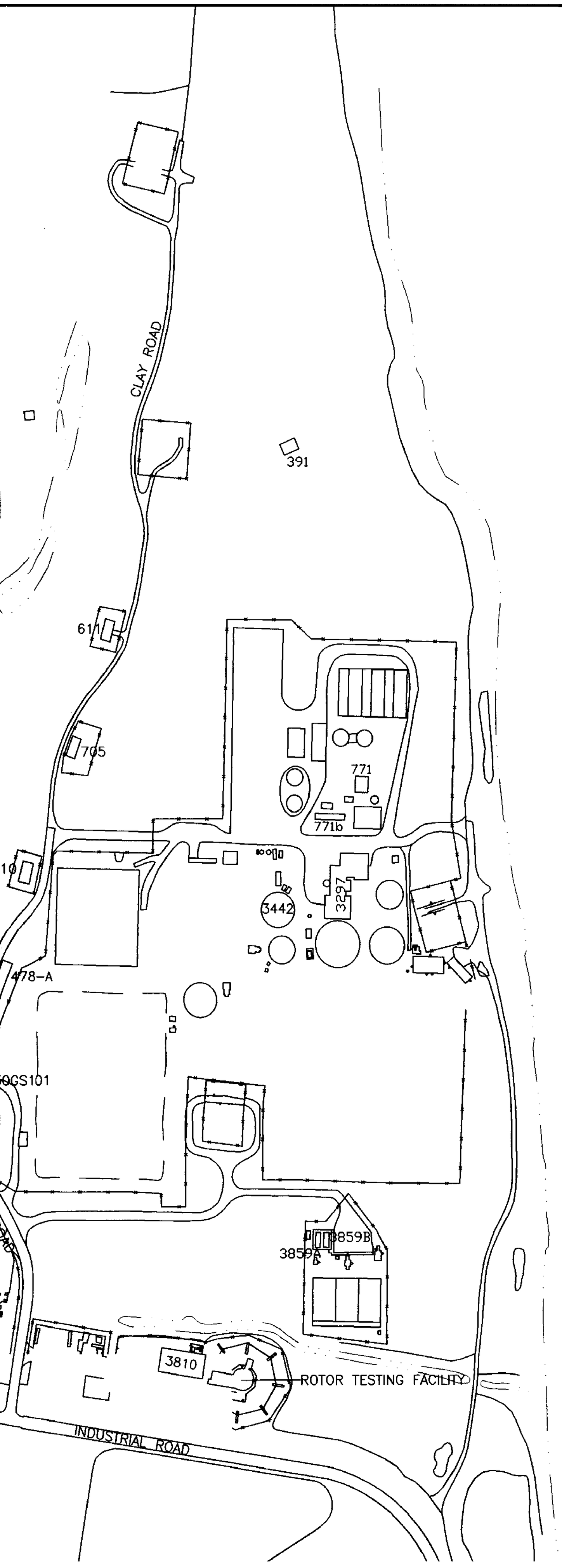
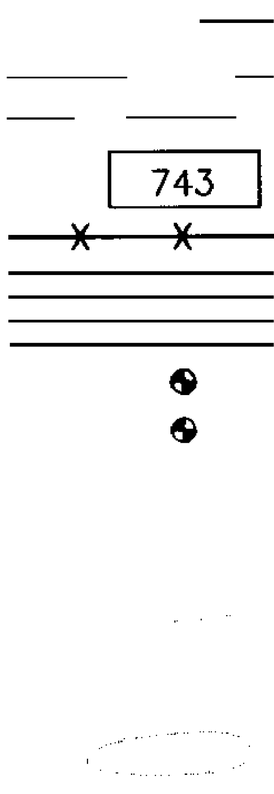


PHASE II SH ANTIMONY, CHR	
SITE	Monitoring Well ID
UNITS (µg/L)	
11	
	11-G-GI15
25	
	25-G-GS09
27	
	27-G-GS10
30	
	30-G-GS103
	30-G-GS28

1 = FPDWS-FLORIDA P

PENSACOLA BAY



PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY AND SODIUM EXCEEDANCES

SITE	Monitoring Well ID	Antimony (Sb)	Chromium (Cr)	Mercury (Hg)	Sodium (Na)
UNITS (µg/L)		6 (1)	100 (1)	2 (1)	160000 (1)
11					
	11-G-GI15				169000
25					
	25-G-GS09			4.7	
27					
	27-G-GS10		309		
30					
	30-G-GS103	7.8 J			
	30-G-GS28		418		

t = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

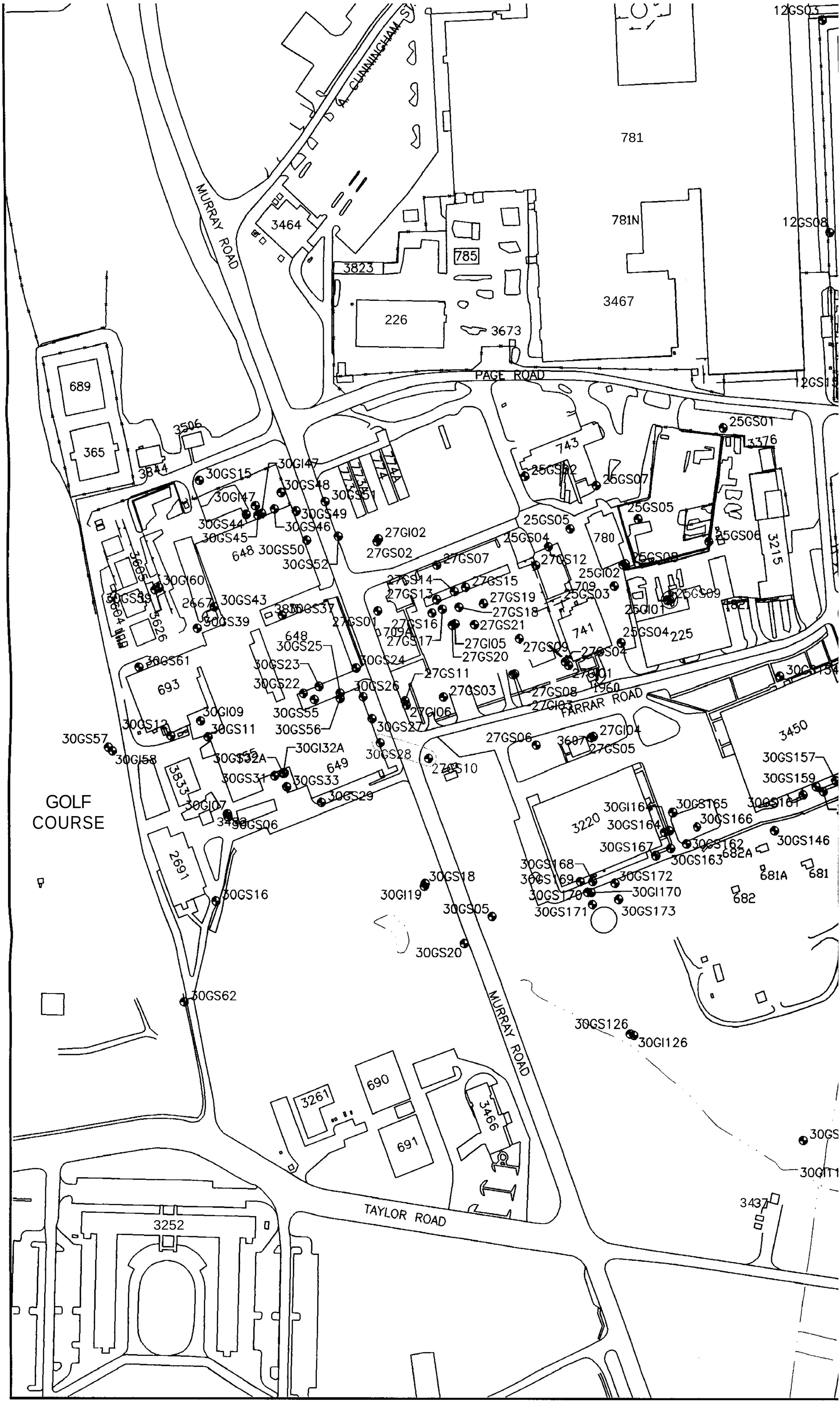
ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY, AND SODIUM EXCEEDANCES).

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CHROMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS,


MURRAY ROAD
CUNNINGHAM ST.
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
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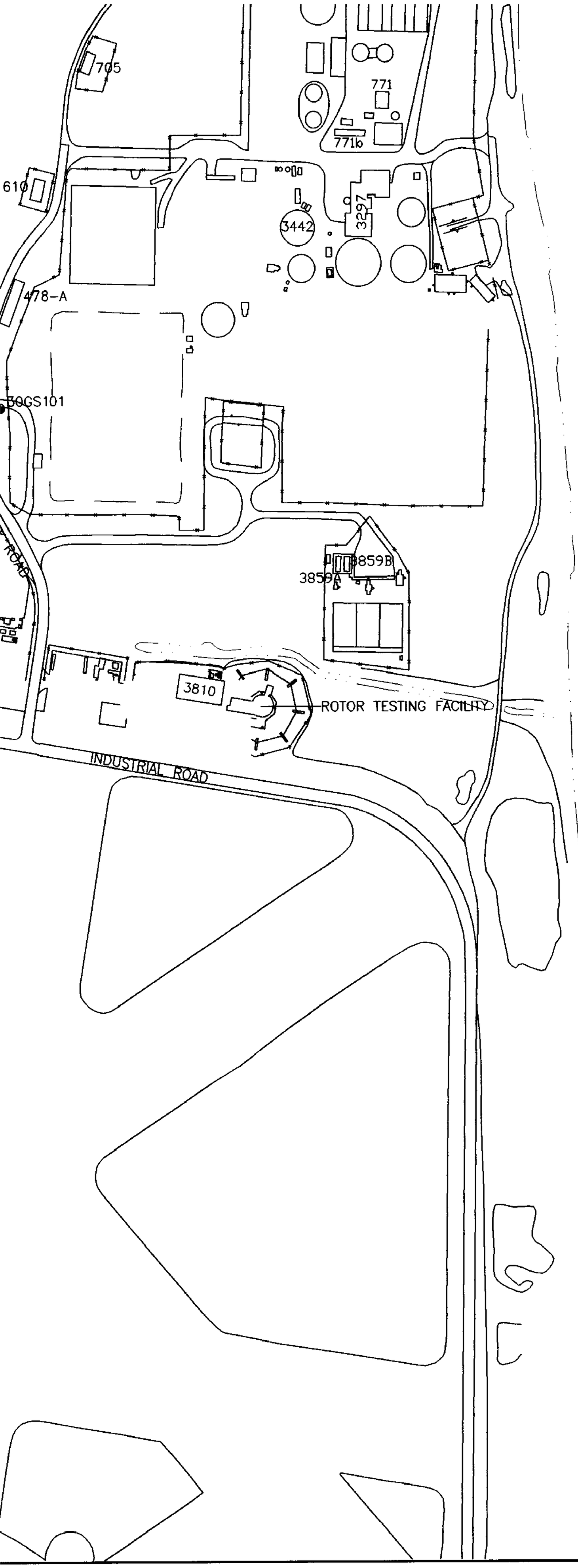

	11-G-GI15
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	25-G-GS09
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	27-G-GS10
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	30-G-GS10
	30-G-GS28

I = FPDWS-FLORIDA

PENSACOLA BAY

743

1. HIGHLIGHTED MONI
AND INTERMEDIATE
GRAY WELLS INDIC
ANTIMONY, CHROM
2. J VALUE INDICATE
3. ALL CONCENTRATIO

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SCALE FEET

11					
	11-G-GI15				169000
25					
	25-G-GS09			4.7	
27					
	27-G-GS10		309		
30					
	30-G-GS103	7.8 J			
	30-G-GS28		418		

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

PENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY, AND SODIUM EXCEEDANCES).

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CHROMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS.

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER MERCURY CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS,

APPROXIMATE AREA OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SODIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARDS,

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY, OR SODIUM EXCEEDANCES, GRAY WELLS INDICATE THE ABSENCE OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY, OR SODIUM EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY,
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

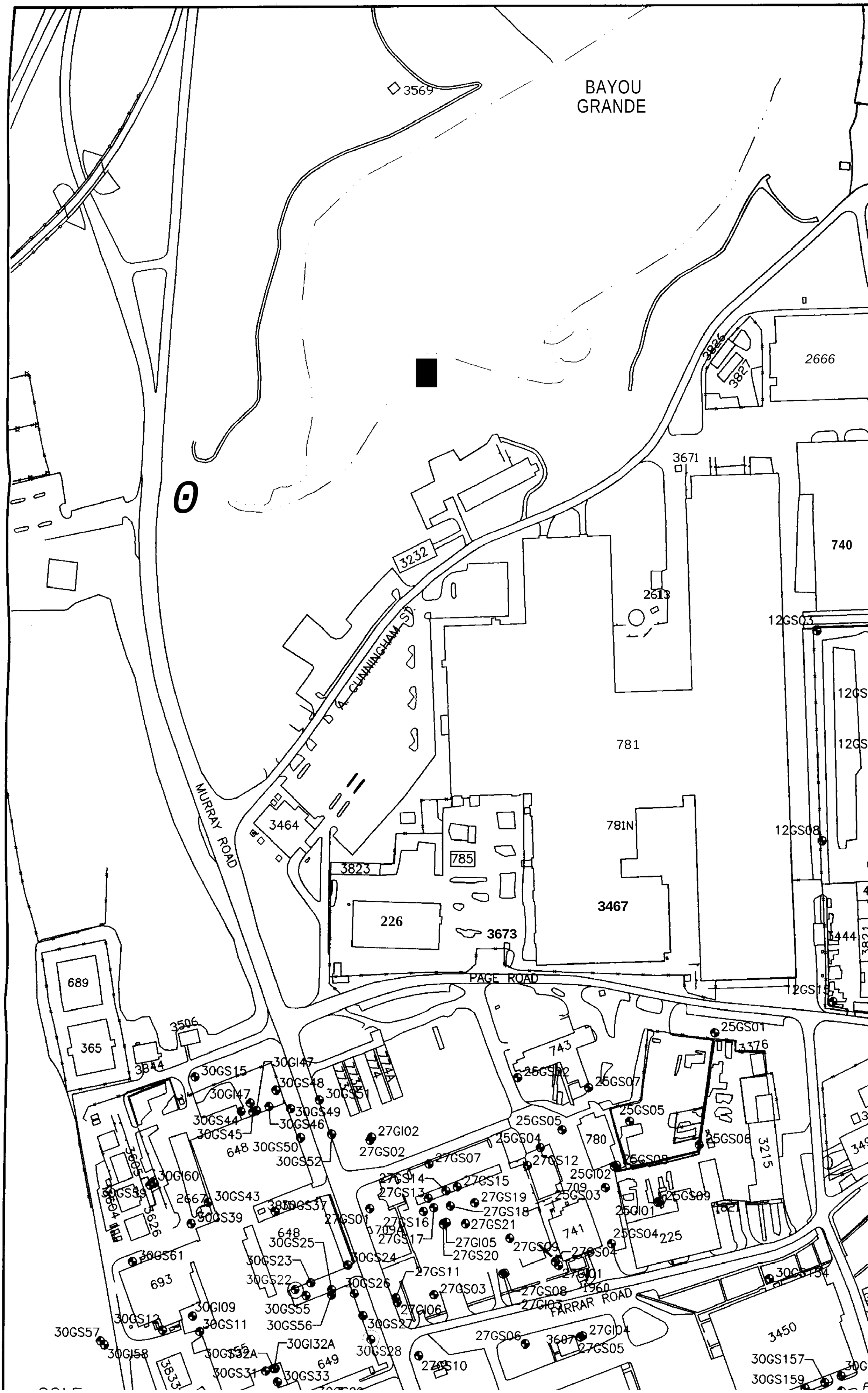
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 48
PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER ANTIMONY, CHROMIUM, MERCURY, AND SODIUM EXCEEDANCES

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by JPG	App by H. BEIRO	Sheet 1 Of 1
Date: 07/09/97	DWG Name: 590U2SRP	

SECTIONS TO FOLLOW ON


BAYOU
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MURRAY ROAD
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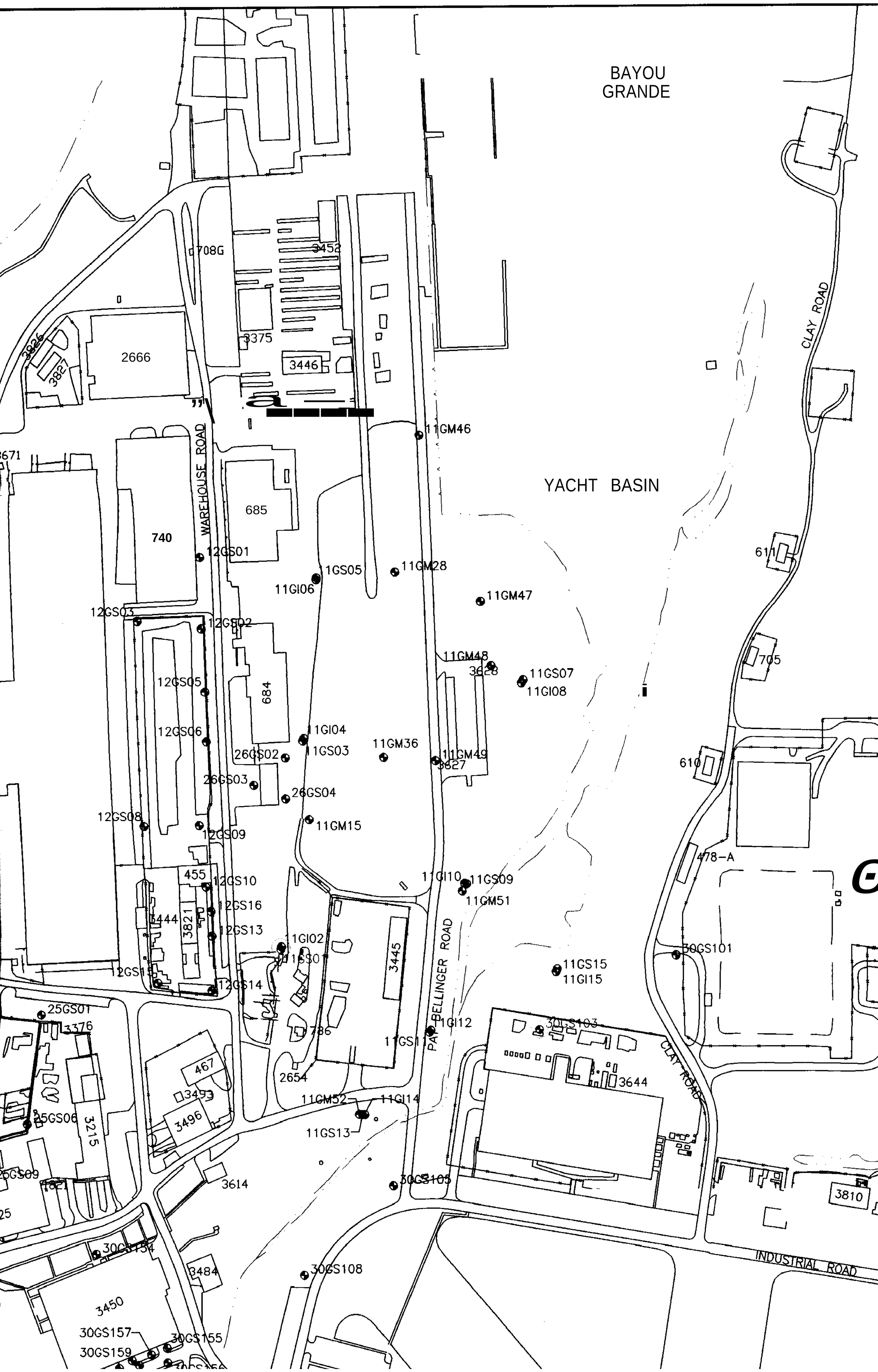
BAYOU
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30GS155
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705
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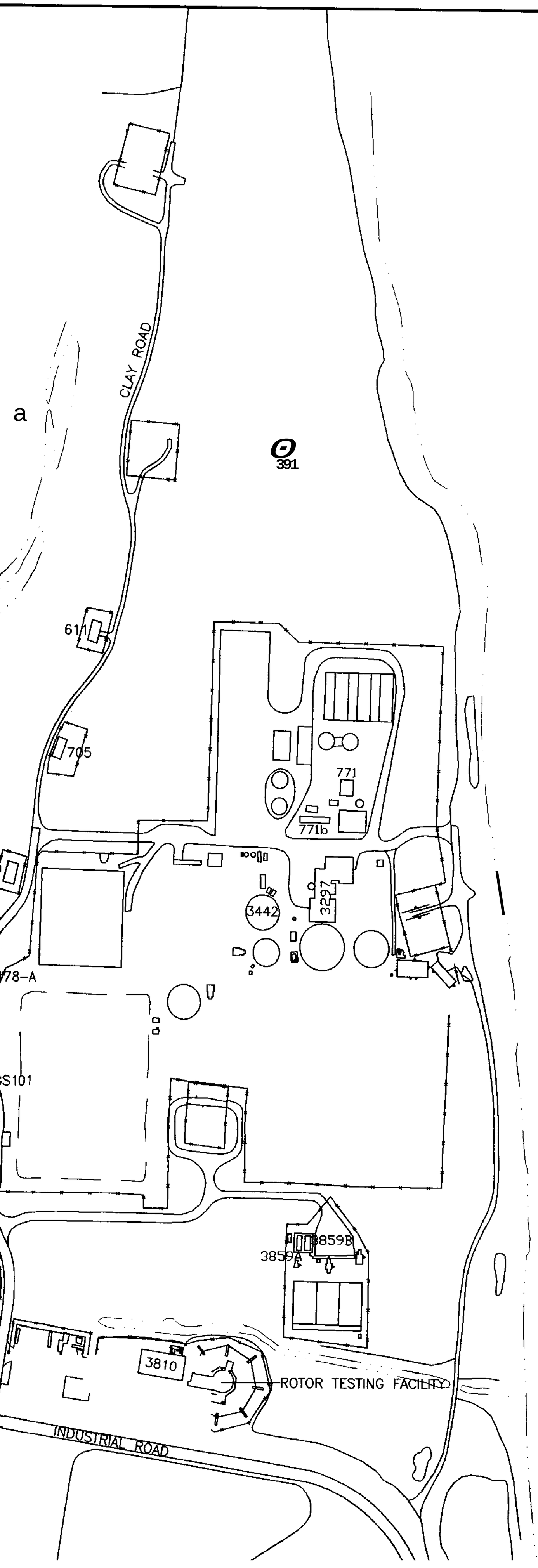
478-A



PHASE II GROU	
SITE	Monito
UNITS (µg/L)	
11	
	11-G
30	
	30-G
	30-G
	30-G
	30-G

LE

743

e

PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND/OR LEAD EXCEEDANCES

SITE	Monitoring Well ID	Cadmium (Cd)	Lead (Pb)
UNITS (µg/L)		5 (1)	15 (1)
	II-G-GS01	8	
30			
	30-G-GS103	5.1 J	37.[illegible]
	30-G-GS126	21.8	236
	30-G-GS22		56.2
	30-G-GS28	108	

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

ACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

FENCE LINE

ROADS

SIDEWALKS

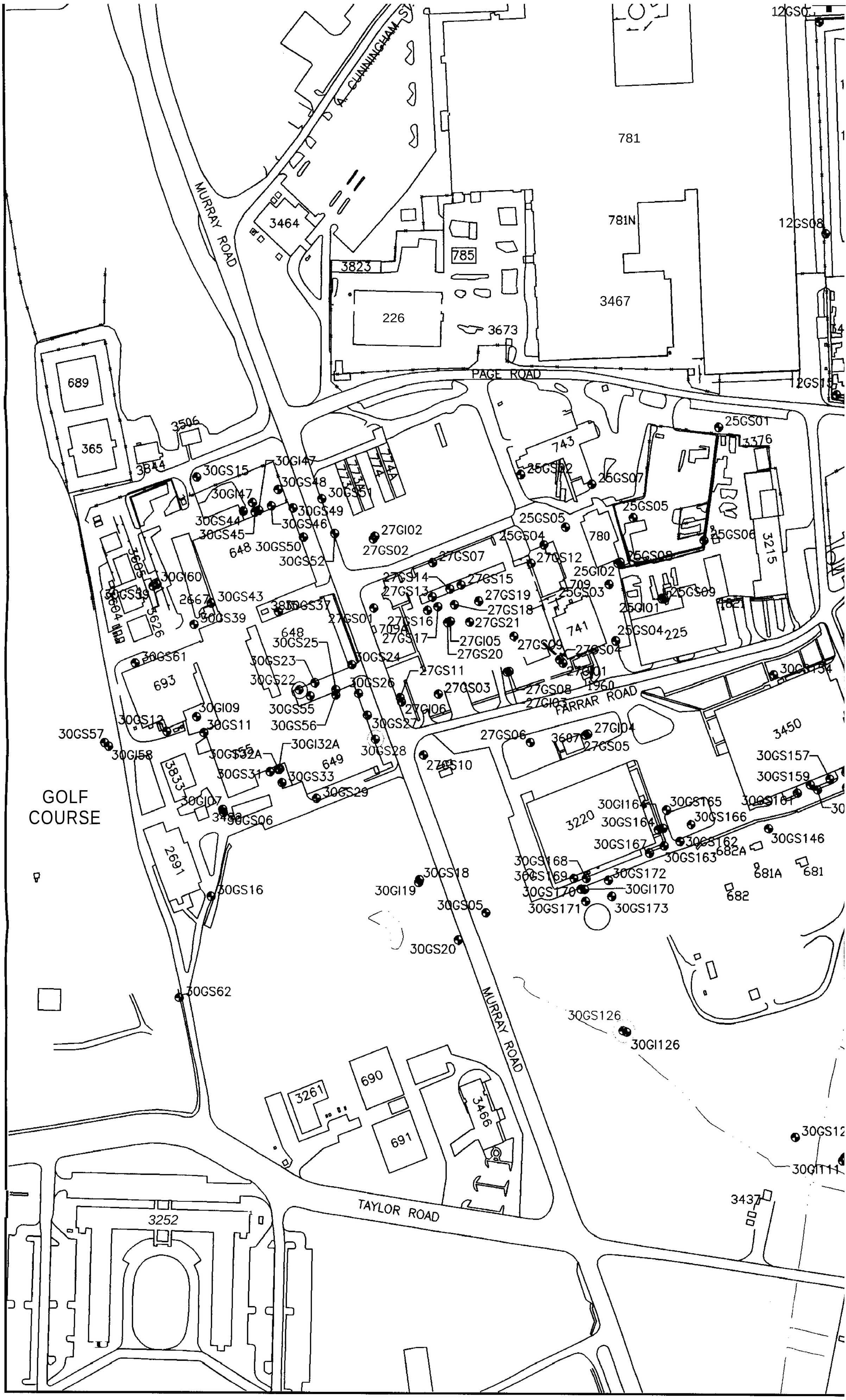
e GROUNDWATER MONITORING WELL

GROUNDWATER MONITORING WELL (CADMIUM AND/OR LEAD GROUNDWATER EXCEEDANCES).

APPROXIMATE ARE3 OF SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF SHALLOW AND INTERMEDIATE GROUNDWATER LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING


A. CUNNINGHAM ST.
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
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785
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3464
226
3673
689
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3506
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709A
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3466
3252
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681A
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12GS02
12GS05
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1GI04
11GS03
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26GS03
26GS04
11GM15
12GS08
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455
12GS10
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2654
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PAT BELLINGER ROAD
ell GS15
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30GS103
CLAY ROAD
3644
705
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30GS101
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3215
25GS06
25GS09
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11GM52
11GI14
11GS13
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30GS154
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30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
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30GS160
30GS166
30GS162
30GS146
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682
30GI113
30GS113
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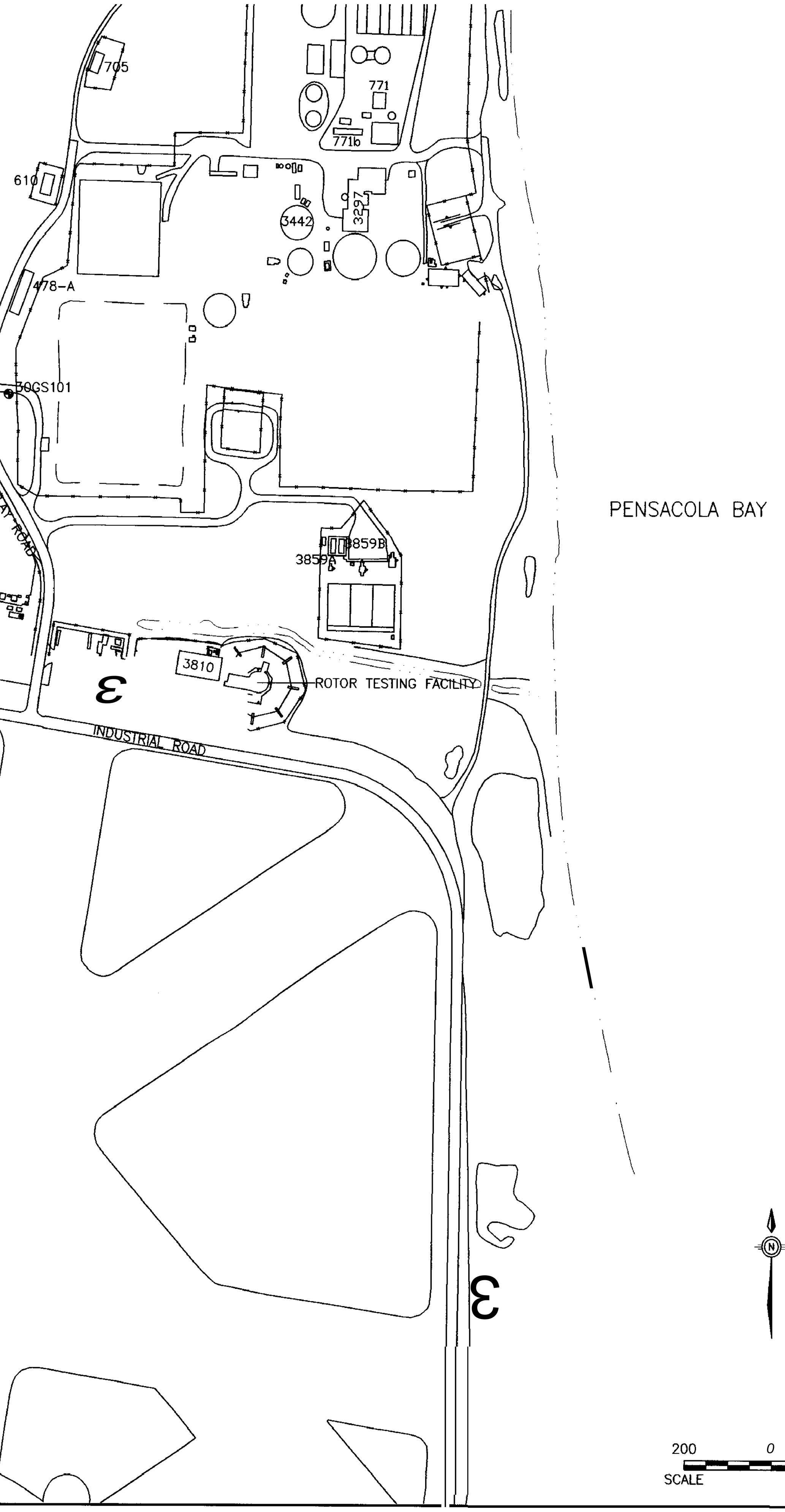
30GS123
30GS111
30GI111
3437
30GS118
3557



PH

SITE

UNITS

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743

1. HIGHLIGHTE
INTERMEDIA
GRAY WELL
GROUNDWA
2. J VALUE IN
3. ALL CONCE
4. NO INTERM

PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND/OR LEAD EXCEEDANCES

SITE	Monitoring Well ID	Cadmium (Cd)	Lead (Pb)
UNITS (µg/L)		5 (1)	15 (1)
11			
	11-G-GS01	8	
30			
	30-G-GS103	5.1 J	37.1
	30-G-GS126	21.8	236
	30-G-GS22		56.2
	30-G-GS28	108	

1 = FPDWS-FLORIDA PRIMARY DRINKING WATER STANDARD

ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
e GROUNDWATER MONITORING WELL (CADMIUM AND/OR LEAD GROUNDWATER EXCEEDANCES).

APPROXIMATE AREA Of SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

APPROXIMATE AREA OF SHALLOW AND INTERMEDIATE GROUNDWATER LEAD CONCENTRATIONS EXCEEDING THE FLORIDA PRIMARY DRINKING WATER STANDARD.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND/OR LEAD EXCEEDANCES
   GRAY WELLS INDICATE THE ABSENCE OF ANY PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND/OR LEAD EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN µg/L.
4. NO INTERMEDIATE GROUNDWATER CADMIUM OR LEAD EXCEEOANCES WERE NOTED.

N

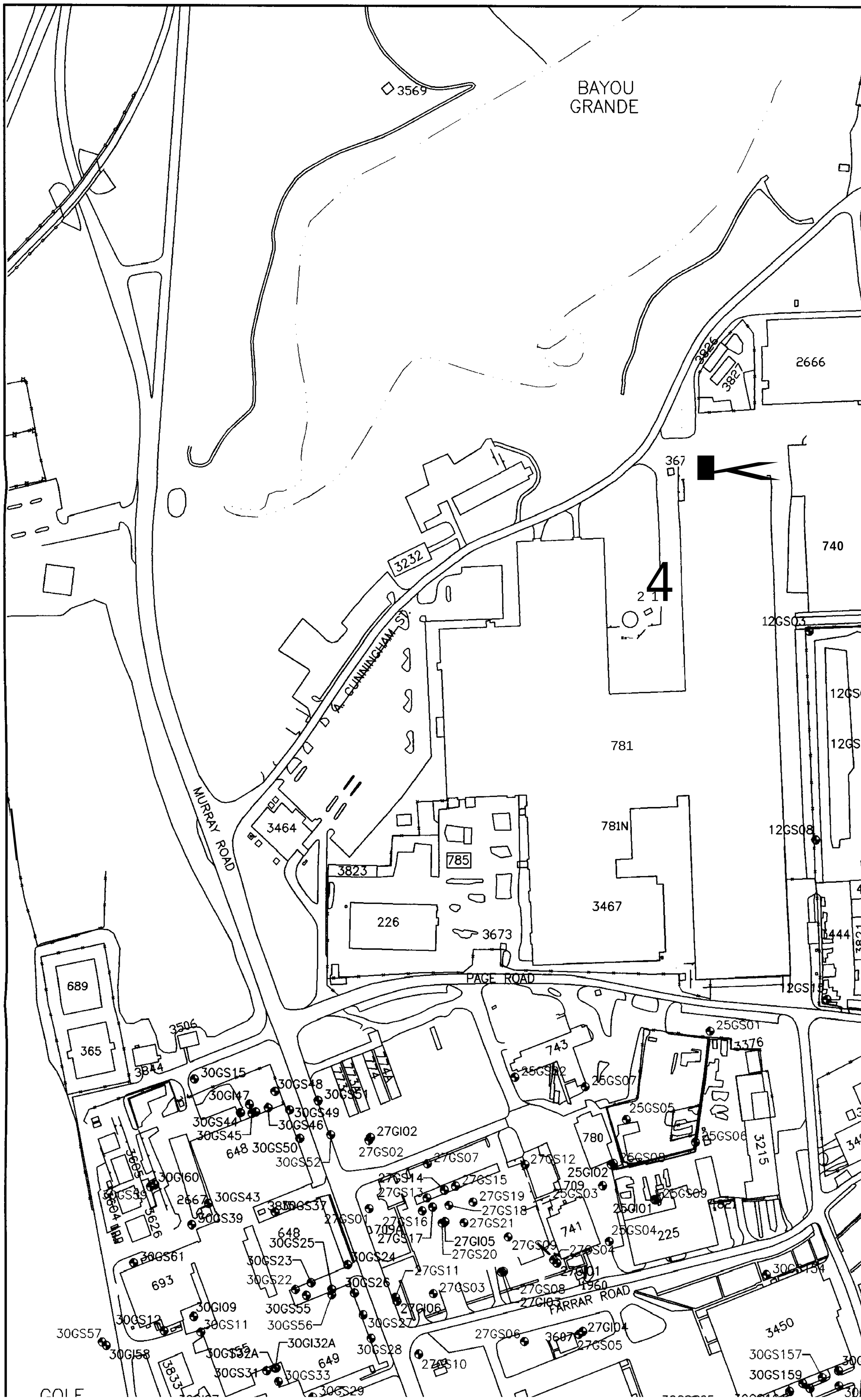
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 49
PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER CADMIUM AND/OR LEAD EXCEEDANCES

Dr by. K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 59OU2GRP	Of 1

SECTIONS TO FOLLOW ON


BAYOU
GRANDE
3569
2666
3826
3827
367
740
4
2 1
12GS03
781
781N
12GS08
3232
A. CUNNINGHAM ST.
MURRAY ROAD
3464
785
3823
226
3467
3673
3444
PAGE ROAD
12GS15
689
365
3506
3844
25GS01
3376
743
25GS02
25GS07
25GS05
780
25GS06
3215
25GI02
709
25GS03
25GS09
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741
25GS04
225
27GS04
27GI01
1960
FARRAR ROAD
3450
30GS157
30GS159
30GS15
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27GS17
27GI05
27GS20
27GS09
30GS61
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30GS26
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27GS03
27GS08
27GI03
27GI06
693
30GI09
30GS55
30GS56
30GS12
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30GS27
30GS57
30GI58
30GI32A
30GS32A
30GS31
30GS33
649
30GS28
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27GS06
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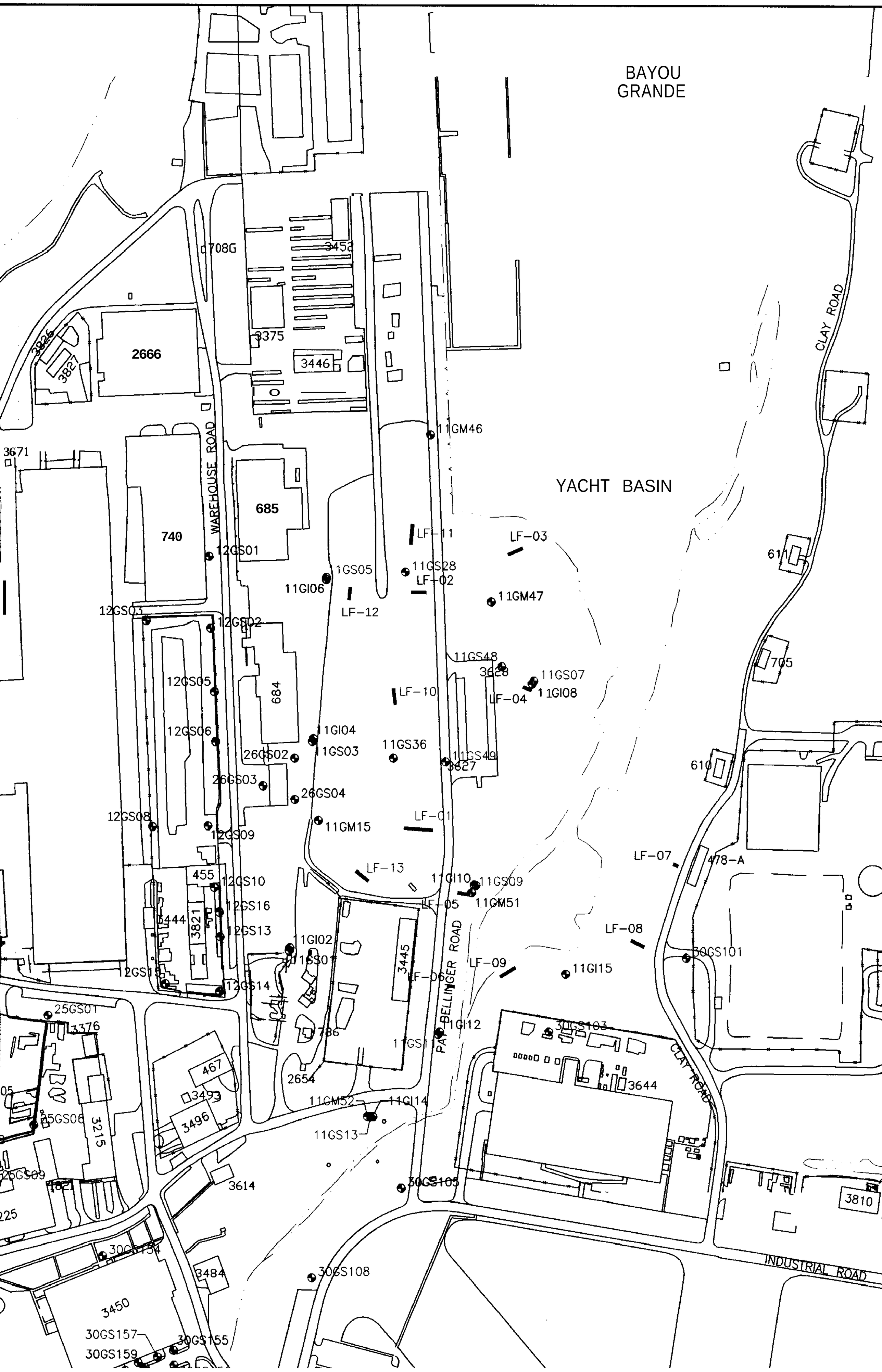
3615
3621
1021
1154
3400


BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
3671
740
685
684
455
3444
3821
3445
467
3493
3496
3376
3215
3614
3484
3450
3644
3810
611
610
705
478-A
2654
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11GS49
11GI02
11GI04
11GI06
11GI08
11GI10
11GI12
11GI14
11GI15
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26GS04
25GS01
25GS06
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30GS103
30GS105
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30GS154
30GS155
30GS157
30GS159
LF-01
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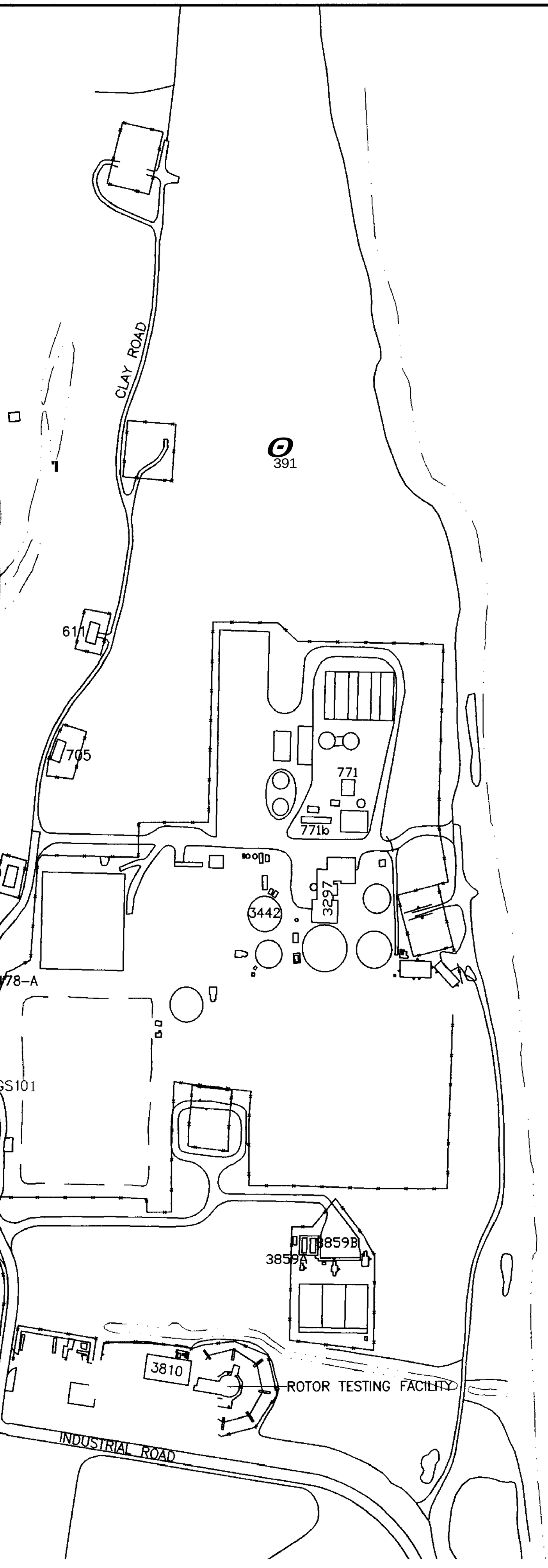
LF-10
LF-11
LF-12
LF-13



PENSACOLA BAY

PHASE I SHALLOW GROUNDWATER SECONDARY DRINKING WAT
METALS EXCEEDANCES

SITE	Monitoring Well ID	Aluminum (Al)	Copper (CU)	Iron (FE)	Manganese (Mn)	Zi (Z
UNITS (µg/L)		3882.8 (2)	1000 (2)	1707.8 (3)	50 (2)	500
11						
	11-G-S005			5060 J	**95** 3	
	11-G-S007			8440 J	**365**	
	11-G-S009				**212**	
	11-G-S011				120	
	11-G-S013			10100 J	133	
	11-G-GS28			4120 J	83	
	11-G-GS48				***206***	
	11-G-GS49				125	
	11-G-GS52			**3820** J		
	11-G-LF01	518000		336000	**8340**	
	11-G-LF10	**945000**	8280	1100000	**9940**	67
	11-G-LF11	67400 3		83000	180	
	11-G-LF12	44000		26300 J	570 J	
	11-G-LF13	50700 J		117000	1700	**87**
25						
	25-G-S001	35800		10400 J	**115**	
	25-G-S002	**4790** J		5200 J		
	254-5003	83600 J		**46600** J	**407**	
	25-G-S004	**183000** 3		**66900** J	**219**	
	25-G-S005	**35500**		14800 J	128	
	25-G-S006	22500		19100	**77**	
	25-G-S007	**59500 J**		**27700 J**	**131**	
	25-G-S008	**37300**		**32400**	**450**	
	25-G-S009	247000 J		115000 J	**834**	
27						
	27-G-S001	20400 J		11700 J		
	27-G-S002	**4070**				
	27-G-S003	60900 J		**45300** J	**144**	
	27-G-S004	10000 J		10800 J		
	27-G-S005	**5860**		3180		
	27-G-S006	**41500**		**46000** J	**214**	
	27-G-S007	**12400**		9930 J	89.5	
	27-G-S008			3920J/ 3810J		
	27-G-S009	**7080**		**7760** 3		

1 = SMCL/FSDWS USEPA SECONDARY MAXIMUM CONTAMINANT LEVEL/ FLORIDA SECONDARY DRINKING WATER STANDARD

2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

3 = NASP REFERENCE CONCENTRATION

SHALLOW GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES

Monitoring Well ID	Aluminum (Al)	Copper (CU)	Iron (FE)	Manganese (Mn)	Zinc (Zn)
/L)	3882.8 (2)	1000 (2)	1707.8 (3)	50 (2)	5000 (2)
1-G-S005			5060 J	95 J	
1-G-S007			8440 J	365	
1-G-S009				212	
1-G-S011				120	
1-G-S013			10100 3	133	
1-G-GS28			4120 3	83	
3-G-GS48				206	
I-G-GS49				125	
1-G-GS52			3820 J		
1-G-LF01	518000		336000	8340	
1-G-LF10	945000	8280	1100000	9940	67800
1-G-LFI I	67400 J		83000	180	
1-G-LF12	44000		26300 3	570 J	
1-G-LF13	50700 J		117000	1700	8770
5-G-S001	15800		10400 J	115	
5-G-S002	4790 J		5200 J		
5-G-S003	83600 3		46600 J	407	
5-G-S004	183000 3		66900 J	219	
5-G-S005	35500		14800 J	128	
5-G-S006	22500		19100	77	
5-G-S007	59500 J		27700 3	131	
5-G-S008	37300		32400	450	
5-G-S009	247000 J		115000 J	834	
7-G-S001	20400 J		11700 J		
7-G-S002	4070				
7-G-S003	60900 J		45300 J	144	
7-G-$004	10000 J		10800 J		
7-G-S005	5860		3180		
7-G-S006	41500		46000 J	214	
7-G-S007	12400		9930 J	89.3	
7-G-S008			3920J/ 3810J		
7-G-S009	7080		7760 J		

FSDWS USEPA SECONDARY MAXIMUM CONTAMINANT LEVEL/
DA SECONDARY DRINKING WATER STANDARD
S-FLORIDA SECONDARY DRINKING WATER STANDARD
REFERENCE CONCENTRATION

PHASE I SHALLOW GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES

SITE	Monitoring Well ID	Aluminum (Al)	Iron (Fe)	Manganese (Mn)
UNITS (µg/L)		3882.8 (3)	1707.8 (3)	50 (2)
27				
	27-G-S010	43200 J	23300 J	218
	27-G-S01I	12900	38500	336
	27-G-S012	39500	29700	1150
	27-G-S013	10200	19200	192
	27-G-S015	14100	25600 J	461
	27-G-S016		2150	
	27-G-S018		5350 J	
	27-G-5019		11900 3	76.5
	27-G-SO20	7320	7170 J	
	27-G-SO21	23000	15600 J	60.8
30				
	30-G-S005	18500	10900	
	30-G-S006		4230	
	30-G-S011		4160	140
	30-G-S018		5260	60.9
	30-G-S020	4580	1760	
	30-G-S028			53
	30-G-S029			57.8
	30-G-S033		3290	128
	30-G-S052	5260	3070	
	30-G-S056			
	30-G-S057	20000 3	7870 J	107
	30-G-S059		2640 3	
	30-G-SO62	23500 J	16100 J	88.4
	30-G-S103		7900	457
	30-G-S118		5410	422
	30-G-S154		5490	60.2
	30-G-S156		4760 J	168
	30-G-S157	2430 J	4390 J	373
	30-G-S162	6120	2070	
	30-G-S171			56
	30-G-S172			50.1

'ACOLA BAY

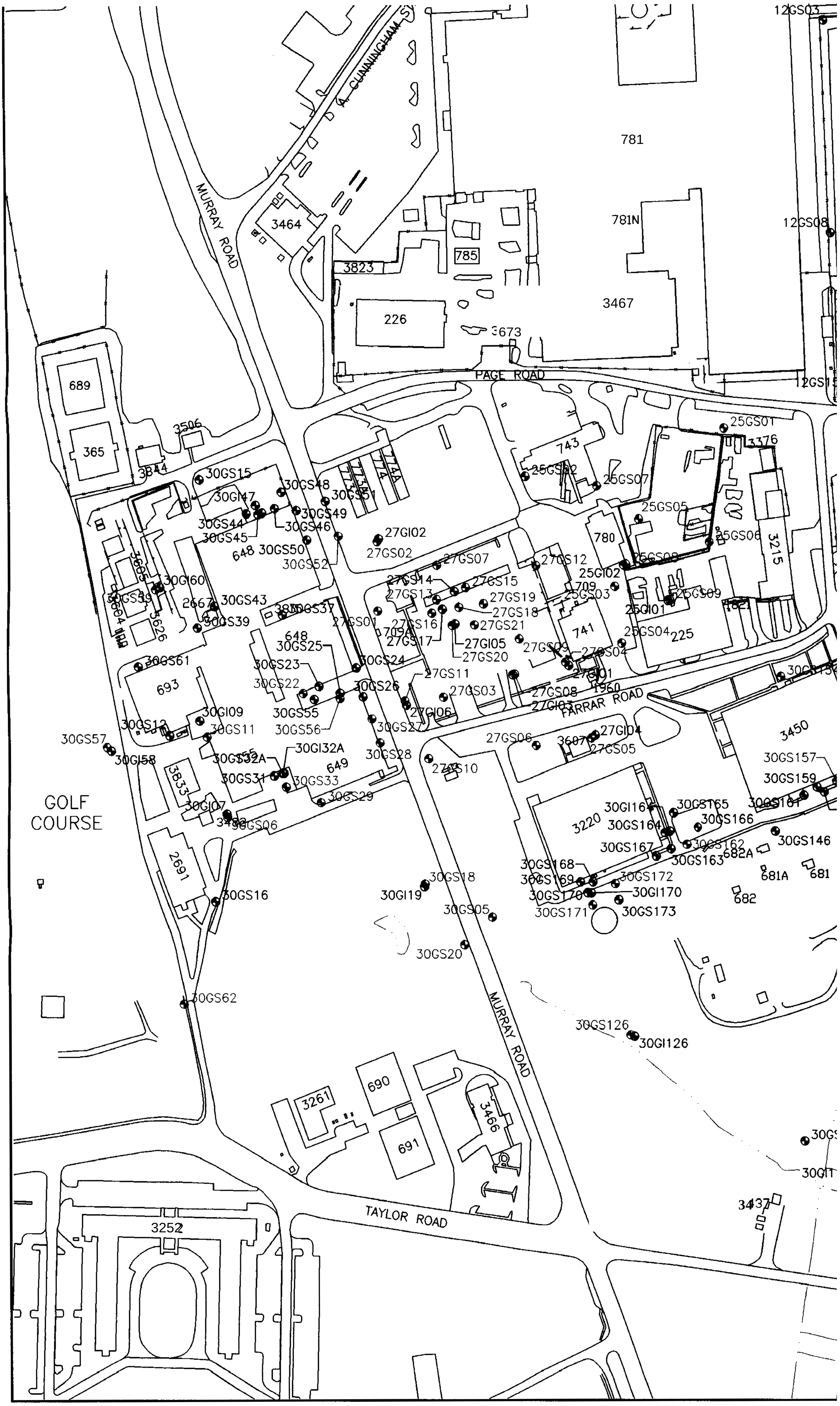
LEGEND

SURFACE WATER BODY

CLOSED LAGOON

743 BUILDING

TRENCH


A. CUNNINGHAM ST
MURRAY ROAD
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
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30GS167
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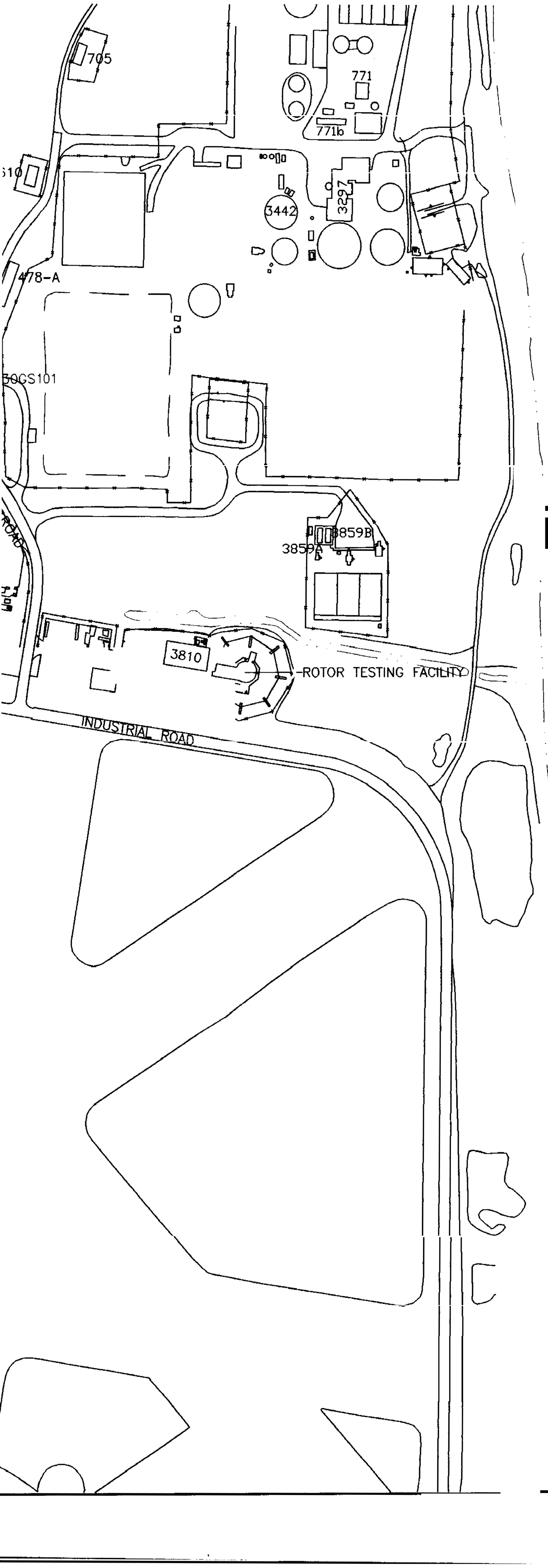
30GS163
30GS146
30GS168
30GS169
30GS172
30GS170
30GI170
30GS171
30GS173

12GS03
12GS02
LF-12
11GS48
3628
11GS07
11GI08
LF-04
LF-10
705
12GS05
684
12GS06
1GI04
11GS03
26GS02
11GS36
11GS49
3627
610
26GS03
26GS04
12GS08
12GS09
11GM15
LF-01
LF-07
478-A
LF-13
455
12GS10
12GS16
12GS13
3444
3821
11GI10
11GS09
11GM51
LF-05
LF-08
1GI02
11GS01
3445
LF-06
LF-09
30GS101
11GI15
12GS15
12GS14
BELLINGER ROAD
25GS01
3376
1GI12
30GS103
736
11GS14
467
2654
3644
CLAY ROAD
3493
3496
11GM52
11GI14
11GS13
3215
3614
30GS105
225
30GS154
3484
30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
682A
30GS163
681A
681
682
30GI113
30GS113
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557



27-G-S002	4070			
27-G-S003	**60900 J**		**45300 J**	**144**
27-G-S004	10000 J		10800 J	
27-G-S005	**5860**		3180	
27-G-S006	**41500**		46000 J	214
27-G-S007	12400		9930 J	**89.5**
27-G-S008			3920J/ 3810J	
27-G-S009	7080		7760 3	

1 = SMCL/FSDWS USEPA SECONDARY MAXIMUM CONTAMINANT LEVEL/ FLORIDA SECONDARY DRINKING WATER STANDARD

2 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD

3 = NASP REFERENCE CONCENTRATION

200 0 200

SCALE FEET

1. HIGHLIGI
ONE OR
WATER
GRAY W
WATER
2, J VALUE
3. ALL CO
4. ANALYTI
MAY BE
AND GF

27-G-S001	20400 J		11700 3		
274-5002	4070				
27-G-5003	60900 J		45300 J	144	
27-G-S004	10000 J		10800 3		
27-G-S005	5860		3180		
27-G-S006	41500		46000 J	214	
27-G-S007	12400		9930 J	89.5	
27-G-S008			3920J/ 3810J		
27-G-S009	7080		7760 J		

MCL/FSDWS USEPA SECONDARY MAXIMUM CONTAMINANT LEVEL/
LORIDA SECONDARY DRINKING WATER STANDARD
SDWS-FLORIDA SECONDARY DRINKING WATER STANDARD
ASP REFERENCE CONCENTRATION

	30-G-S118		5410	422
	30-G-S154		5490	60.2
	30-G-S156		4760 J	168
	30-G-S157	2430 3	4390 3	373
	30-G-S162	6120	2070	
	30-G-S171			56
	30-G-S172			50.1

ENSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
TRENCH
TRENCH (EXHIBITING SHALLOW GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES),
FENCE LINE
ROADS
SIDEWALKS
GROUNDWATER MONITORING WELL
GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES).

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE Of ONE OR MORE SHALLOW GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES.
   GRAY WELLS INDICATE THE ABSENCE OF SHALLOW GROUNDWATER DRINKING WATER METALS GROUNDWATER EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.
4. ANALYTICAL RESULTS FROM GRAB GROUNDWATER TRENCH SAMPLES MAY BE REFLECTIVE OF CONTAMINANTS IN BOTH SEDIMENT/SOIL AND GROUNDWATER. SEE DISCUSSION IN SECTION 7.

N

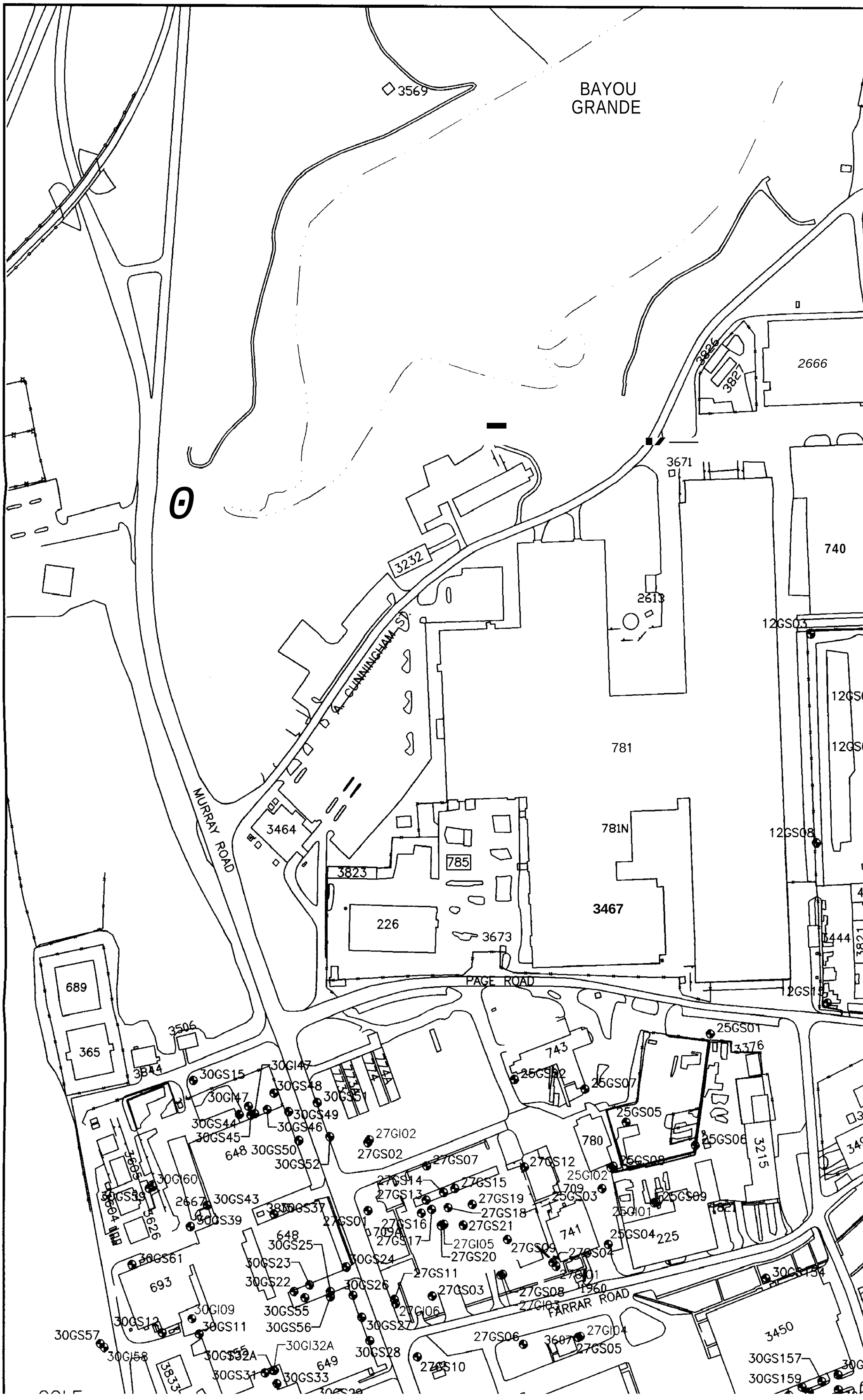
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 50
PHASE I SHALLOW GROUNDWATER
SECONDARY DRINKING WATER
METALS EXCEEDANCES

Dr by K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2SGM	Of 1

SECTIONS TO FOLLOW ON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GRANDE
3569
3826
3827
2666
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740
3232
A. CUNNINGHAM ST.
2613
12GS03
781
MURRAY ROAD
3464
781N
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PAGE ROAD
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2667
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FARRAR ROAD
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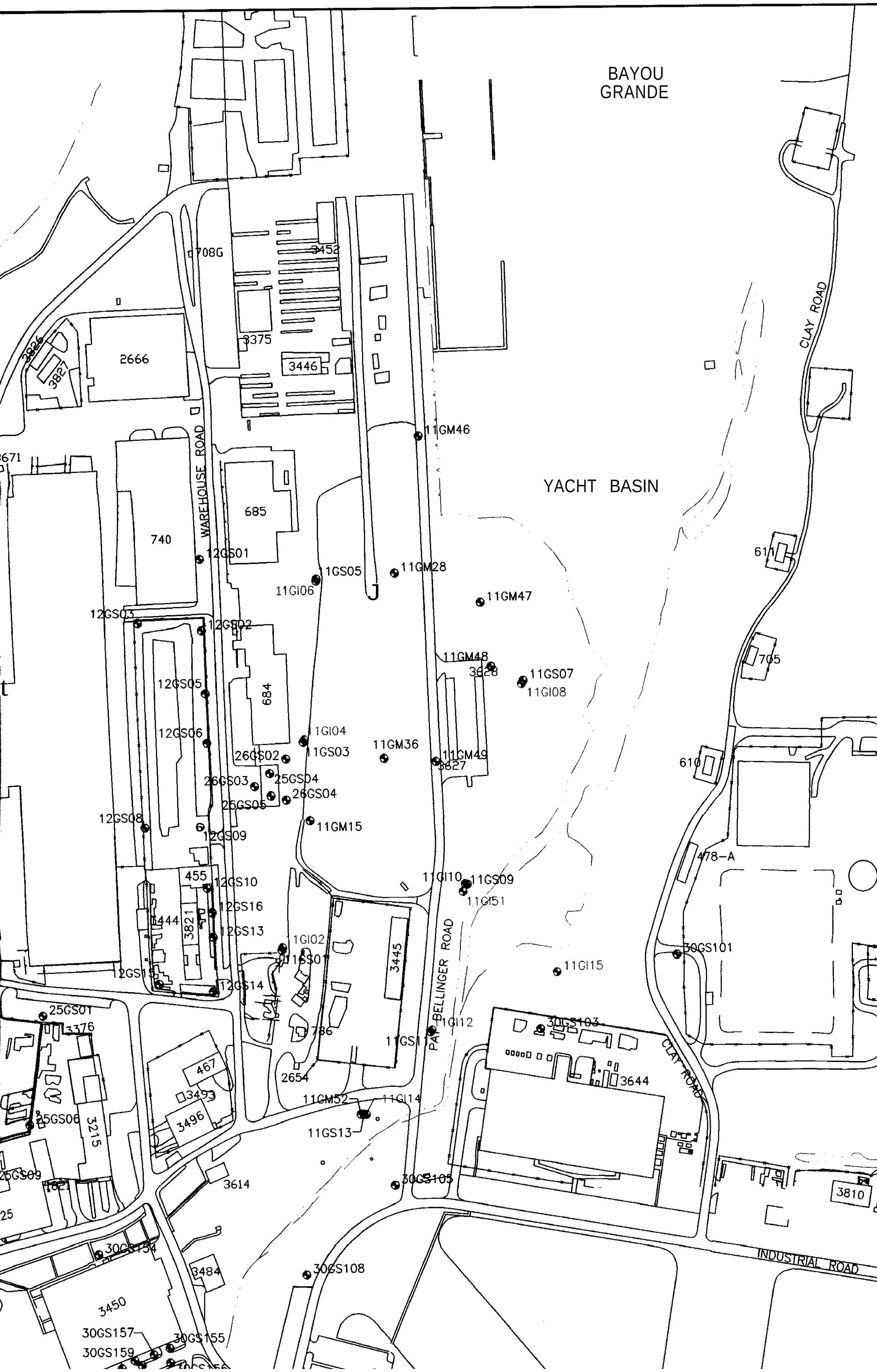
BAYOU
GRANDE
YACHT BASIN
CLAY ROAD
WAREHOUSE ROAD
PAT BELLINGER ROAD
INDUSTRIAL ROAD
708G
3452
3375
3446
2666
3826
3827
11GM46
685
740
12GS01
11GS05
11GI06
11GM28
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1GI04
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3376
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3810
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3484
30GS108
3450
30GS157
30GS155
30GS159

PHASE I INTE SECONDARY DRINKI	
Site	Monitoring Well ID
UNITS (µg/L)	
11	
	11-G-1002
	11-G-1004
	11-G-1006
	11-G-1008
	11-G-1012
	11-G-1014
	11-G-1015
	11-G-G151
25	
	25-G-1002
	~~25-G-1002~~
27	
	27-G-1001
	27-G-1002
	27-G-1003
	27-G-1004
	27-G-1005
	27-G-1006
30	
	30-G-1111
	30-G-1113
	30-G-1126
	30-G-1164
	30-G-1170
	30-G-1032A
	30-G-1007
	~~30-G-1009~~
	30-G-1019
	30-G-1058
	30-G-1060

1 = FSDWS-FLORIDA SECO
2 = NASP REFERENCE CON

PHASE I INTERMEDIATE GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES

Site	Monitoring Well ID	Aluminum (Al)	Iron (Fe)	Manganese (Mn)
UNITS (µg/L)		3882.8 (2)	1707.8 (2)	50 (1)
11				
	11-G-1002	8730	7310 J	
	11-G-1004	4880	20000 J	
	11-G-1006		3470 3	55 J
	11-G-1008		929 3	71
	?1-G-1012			52
	11-G-1014	4070		
	11-G-1015	58900	170000 J	935
	1 I-G-G151			316
25				
	25-G-1001	120000 J	83400 J	283
	25-GI002	88100	114000	54.7
27				
	27-G-1001	102000 J	75600 J	297
	27-G-1002	27600	12400	54.9
	27-G-1003	22000 J	13900 J	65
	27-G-1004	33800	30800	108
	274-1005	15500	8690	
	27-G-1006	57600	25600	110
30				
	SO-G-tl I1		15800	76.8
	30-G-It13		3010	64.1
	30-G-1126	5270 J	2070	
	30-G-1164		4470	264
	30-G-1170	6200 J	10300 J	
	30-G-1032A			75.2
	30-G-1007			56.5
	30-G-1009	7180	17500	
	30-G-1019			54.8
	30-G-1058	6680 J	7070 J	
	30-G-1060	12300 J	6560	50.8

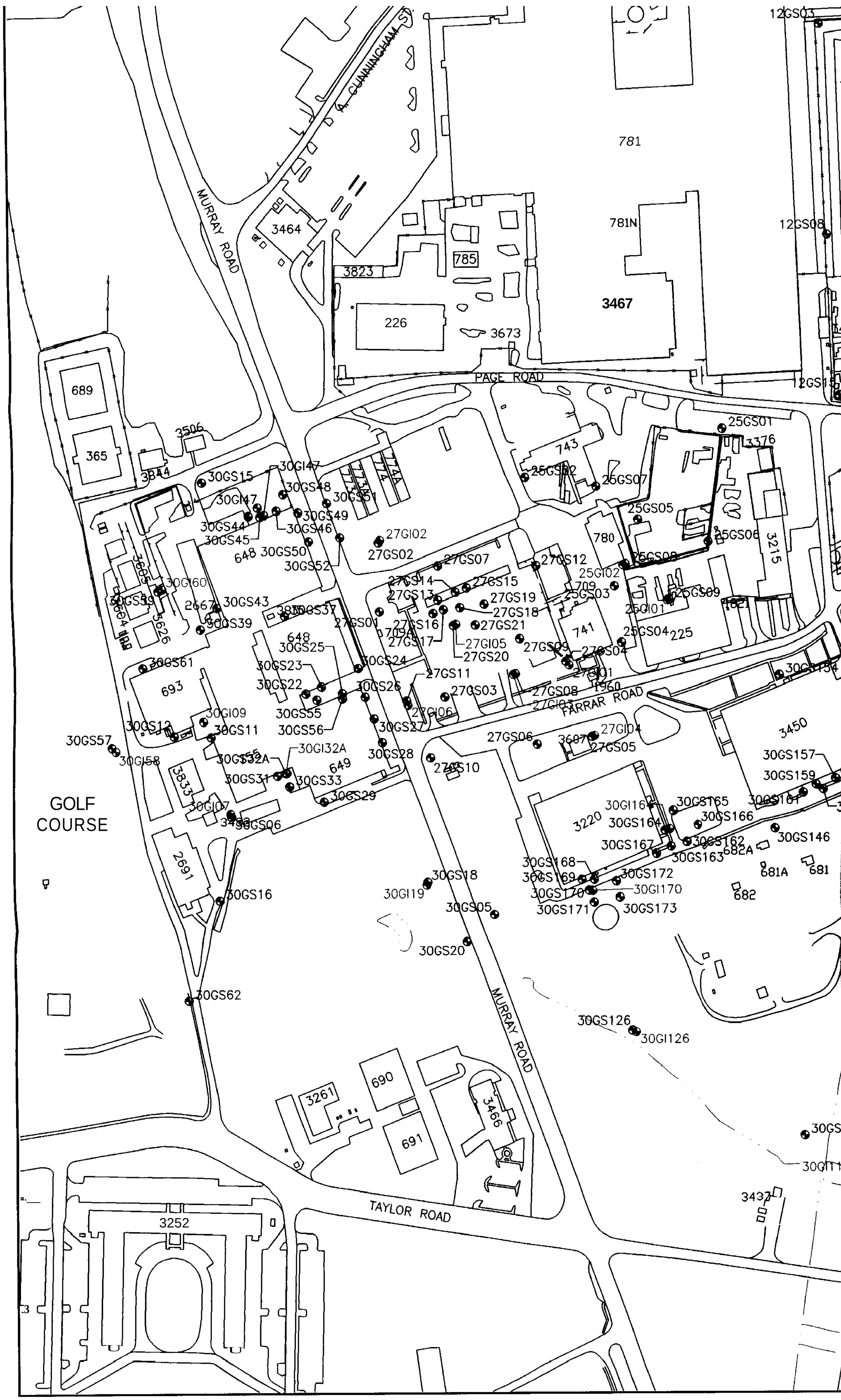
I = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD.
2 = NASP REFERENCE CONCENTRATION

SACOLA BAY

LEGEND

SURFACE WATER BODY

CLOSED LAGOON


MURRAY ROAD
A. CUNNINGHAM ST.
PAGE ROAD
FARRAR ROAD
TAYLOR ROAD
GOLF COURSE
781
781N
785
3467
3464
3823
226
3673
689
365
3506
3844
743
780
741
709
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693
2691
690
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3252
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3220
3833
3626
3604
3605
2667
1960
1821
225
682A
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681A
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12GS03
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30GS172
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3437

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12GS05
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26GS03
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26GS04
25GS05
12GS08
12GS09
11GM15
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12GS10
12GS16
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3821
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11GS01
12GS14
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11GM48
3628
11GS07
11GI08
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478-A
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11GI51
30GS101
11GI15
BELLINGER ROAD
25GS01
3376
11GI12
30GS103
CLAY ROAD
467
3493
3496
2654
11GM52
11GI14
11GS13
3644
25GS06
3215
25GS09
3614
30GS105
225
30GS154
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30GS108
INDUSTRIAL ROAD
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS146
30GS162
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30GS111
30GI111
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30GS118
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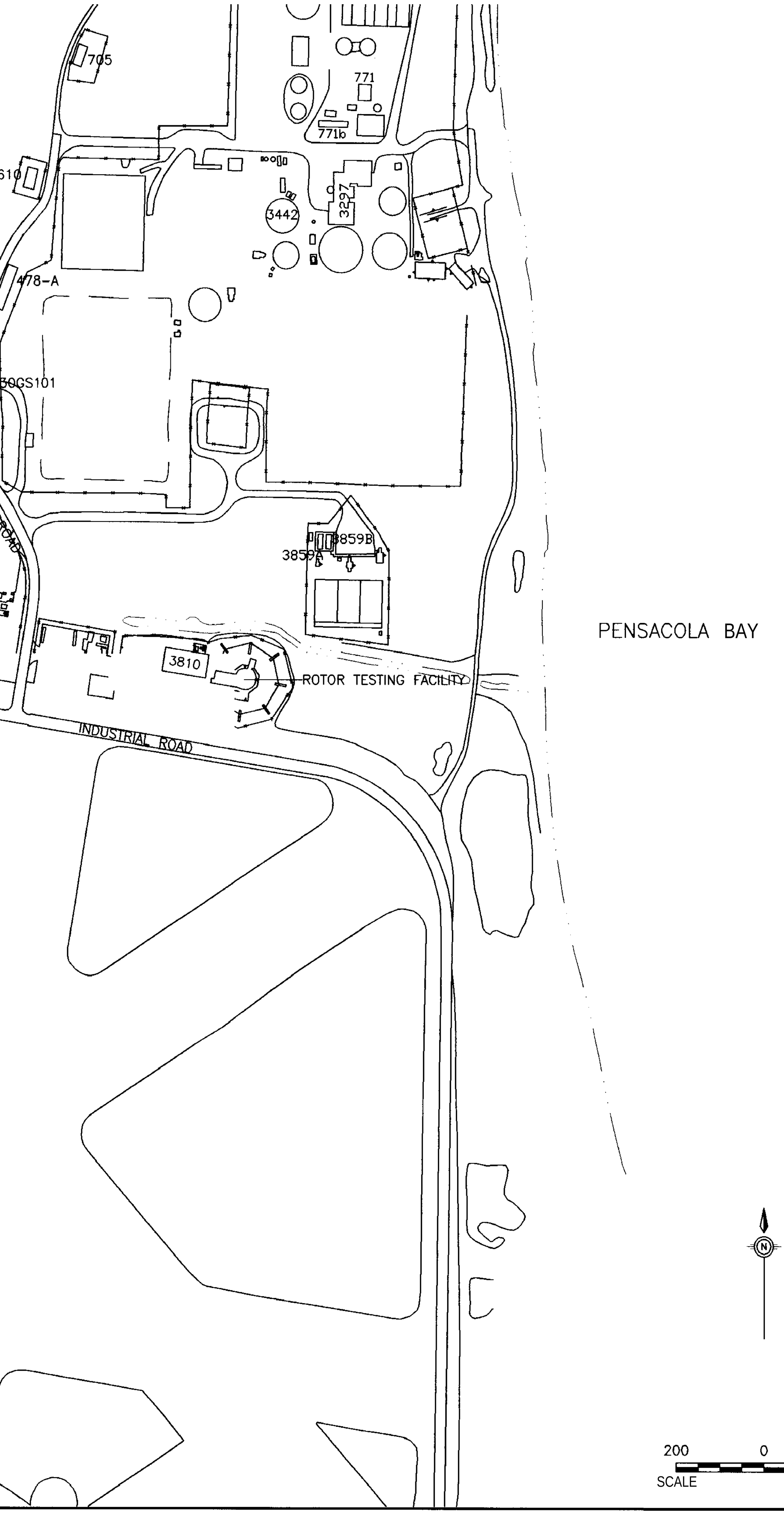


25	
	25-G-1001
	25-G-1002
27	
	27-G-1001
	27-G-1002
	27-G-1003
	27-G-1004
	27-G-1005
	27-G-1006
30	
	30-G-1121
	30-G-1113
	30-G-1126
	30-G-1164
	30-G-1170
	30-G-1032A
	30-G-1007
	30-G-1009
	30-G-1019
	30-G-1058
	30-G-1060

1 = FSDWS-FLORIDA
2 = NASP REFERENC

1. HIGHLIGHT
INTERMEDI
GRAY WEL
DRINKING
2. J VALUE
3. ALL CONC

25				
	25-G-I001	120000 J	83400 J	283
	25-G-I002	88100	114000	54.7
27				
	27-G-I001	102000 J	75600 J	267
	27-G-I002	27600	12400	54.9
	27-G-I003	22000 J	13900 J	65
	27-G-I004	33800	30800	108
	27-G-I005	15500	8690	
	27-G-I006	57600	25600	110
30				
	30-G-I111		15800	76.8
	30-G-I113		3010	64.1
	30-G-I126	5270 J	2070	
	30-G-I146S		4470	264
	30-G-I170	6200 J	10300 J	
	30-G-I032A			75.2
	30-G-I007			56.5
	30-G-I009	7180	17500	
	30-G-I019			54.8
	30-E-I058	6680 J	7070 J	
	30-G-I060	12300 J	6560	50.8

1 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD.
2 = NASP REFERENCE CONCENTRATION

NSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- TRENCH
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES).

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE INTERMEDIATE GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES. GRAY WELLS INDICATE THE ABSENCE OF INTERMEDIATE GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. ALL CONCENTRATIONS ARE IN $\mu g/L$.

N

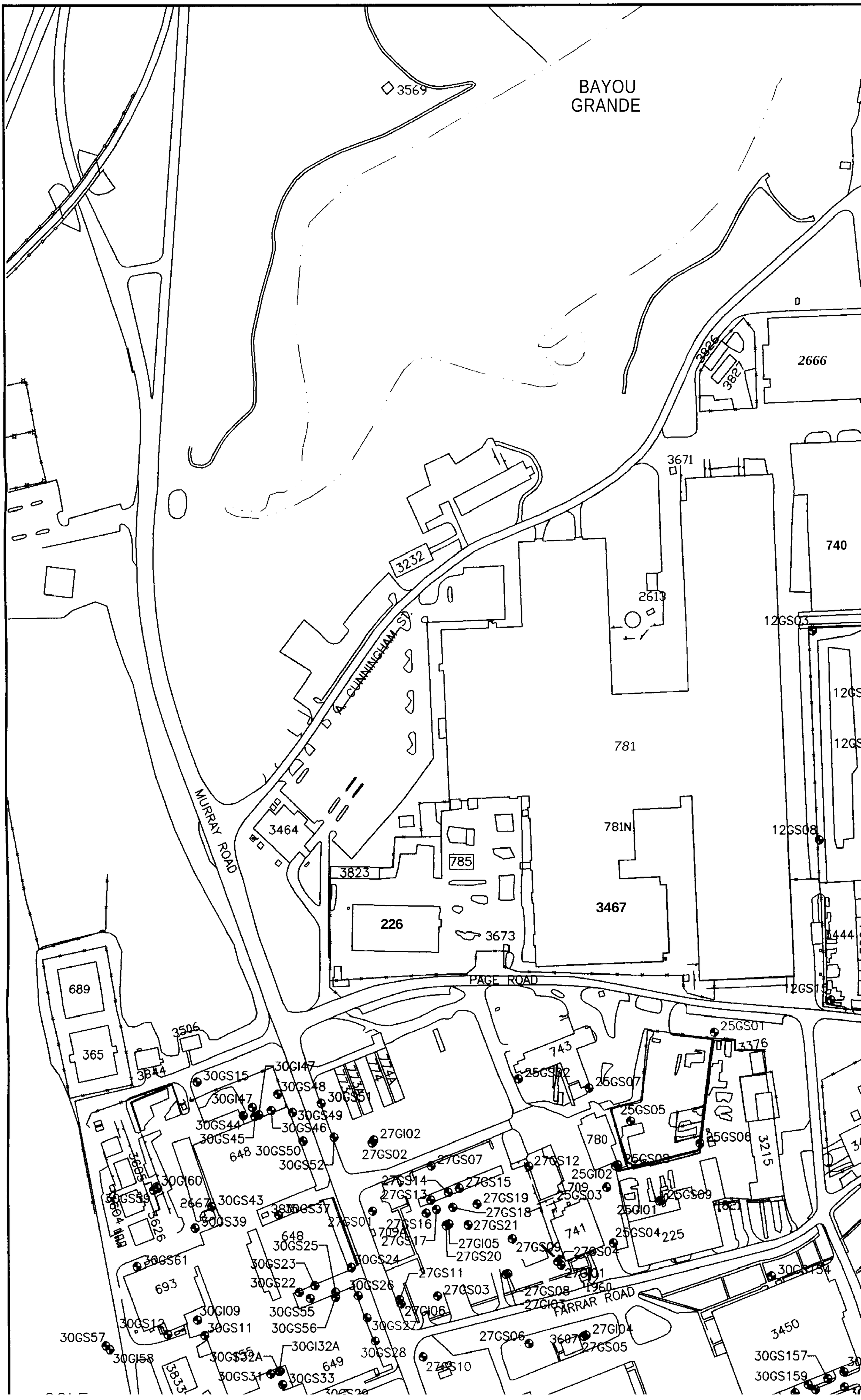
200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 51
PHASE I INTERMEDIATE GROUNDWATER
SECONDARY DRINKING WATER
METALS EXCEEDANCES

Dr by: K. BRONSON	Proj. Code: 0059-00037	
Ck by: JPG	App by: H. BEIRO	Sheet 1
Date: 07/09/97	DWG Name: 590U2SDW	Of 1

SECTIONS TO FOLLOW ON


BAYOU GRANDE
3569
2666
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3232
2613
12GS03
A. CUNNINGHAM ST.
781
MURRAY ROAD
3464
781N
12GS08
785
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3673
PAGE ROAD
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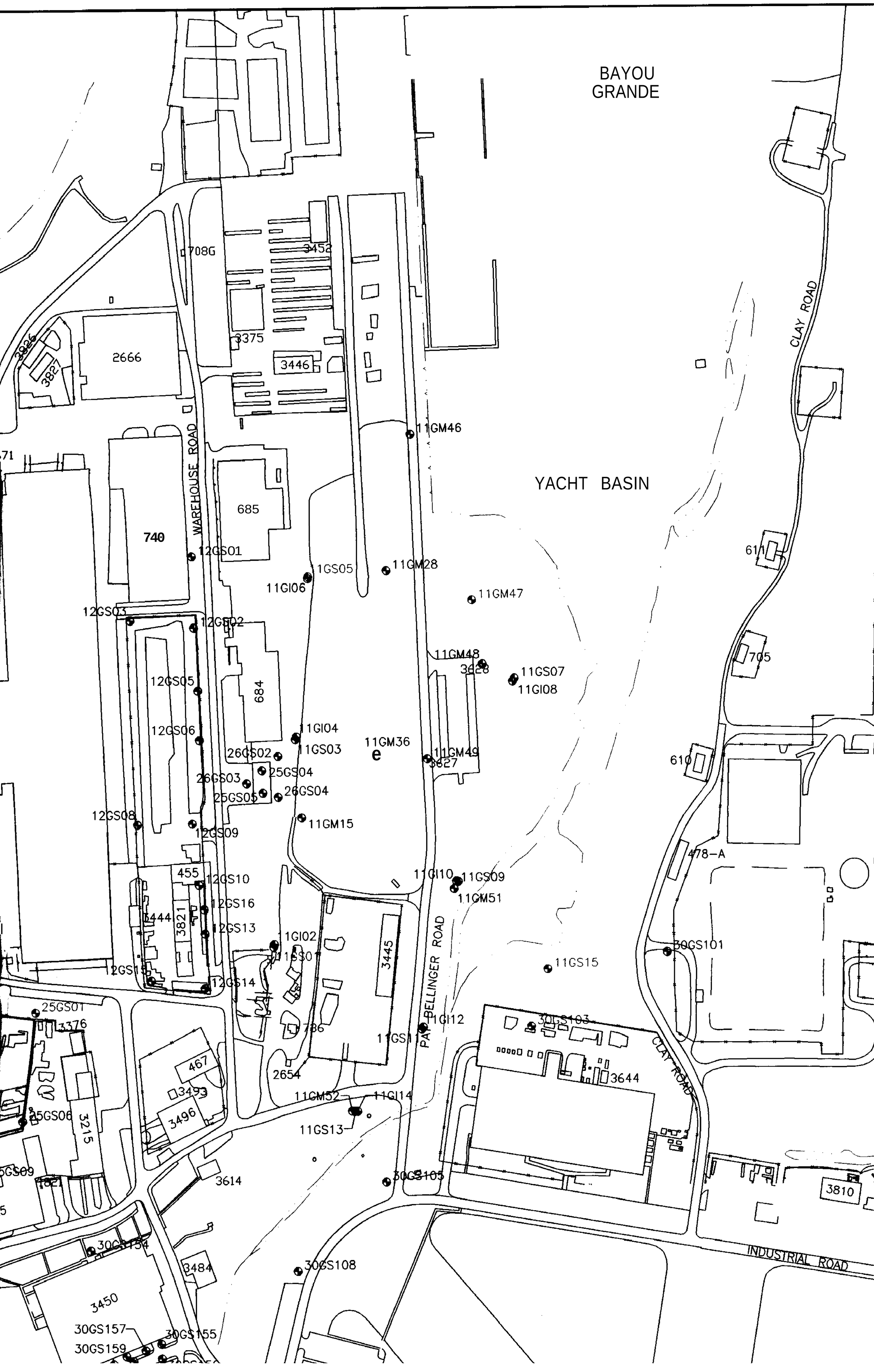
BAYOU
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BELLINGER ROAD
INDUSTRIAL ROAD
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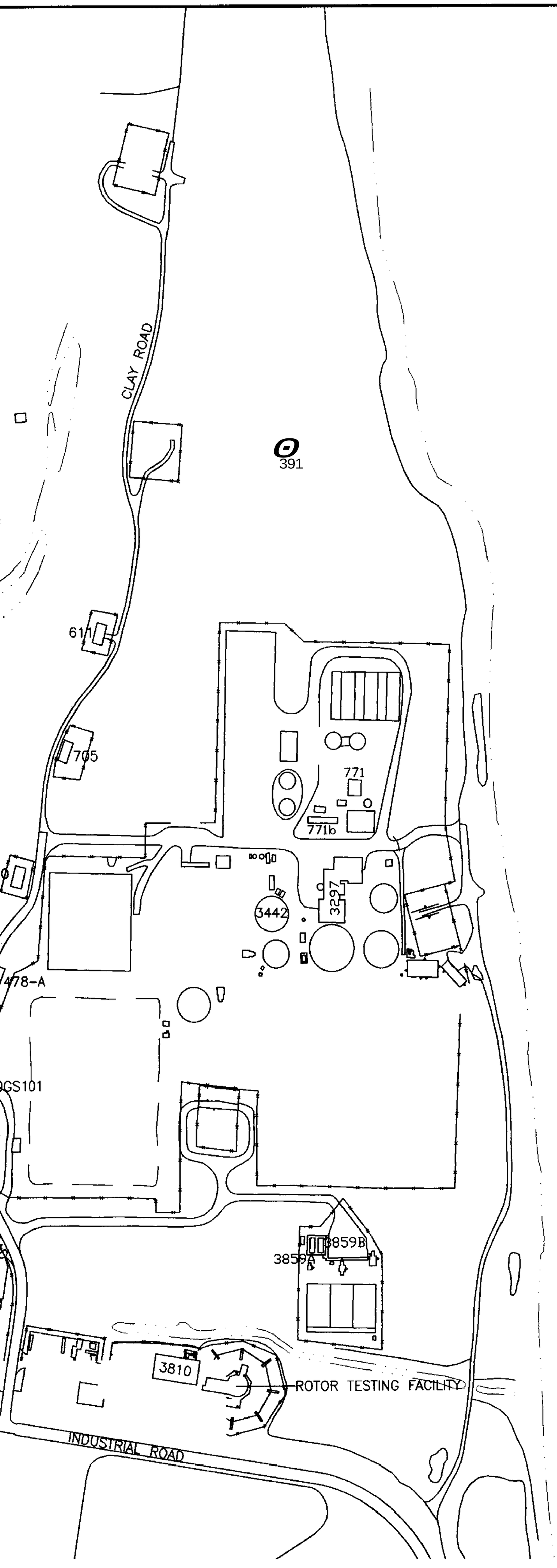
30GS155
30GS159



PHASE II SHALLOW GROUNDWATER SE WATER METALS		
SITE	Monitoring Well ID	
UNITS (µg/L)		
11		
	11-G-GS01	
	11-G-GS05	
	11-G-GI02	
	11-G-GI04	
	11-G-GS15	
	11-G-GM47	
25		
	25-G-GS01	
27		
	27-G-GS01	
	27-G-GS10	
30		
	30-G-GS103	
	30-G-GS27	
	30-G-GS28	
	30-G-S171	

1 = FSDWS-FLORIDA SECONI
2 = NASP REFERENCE CONC

PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES

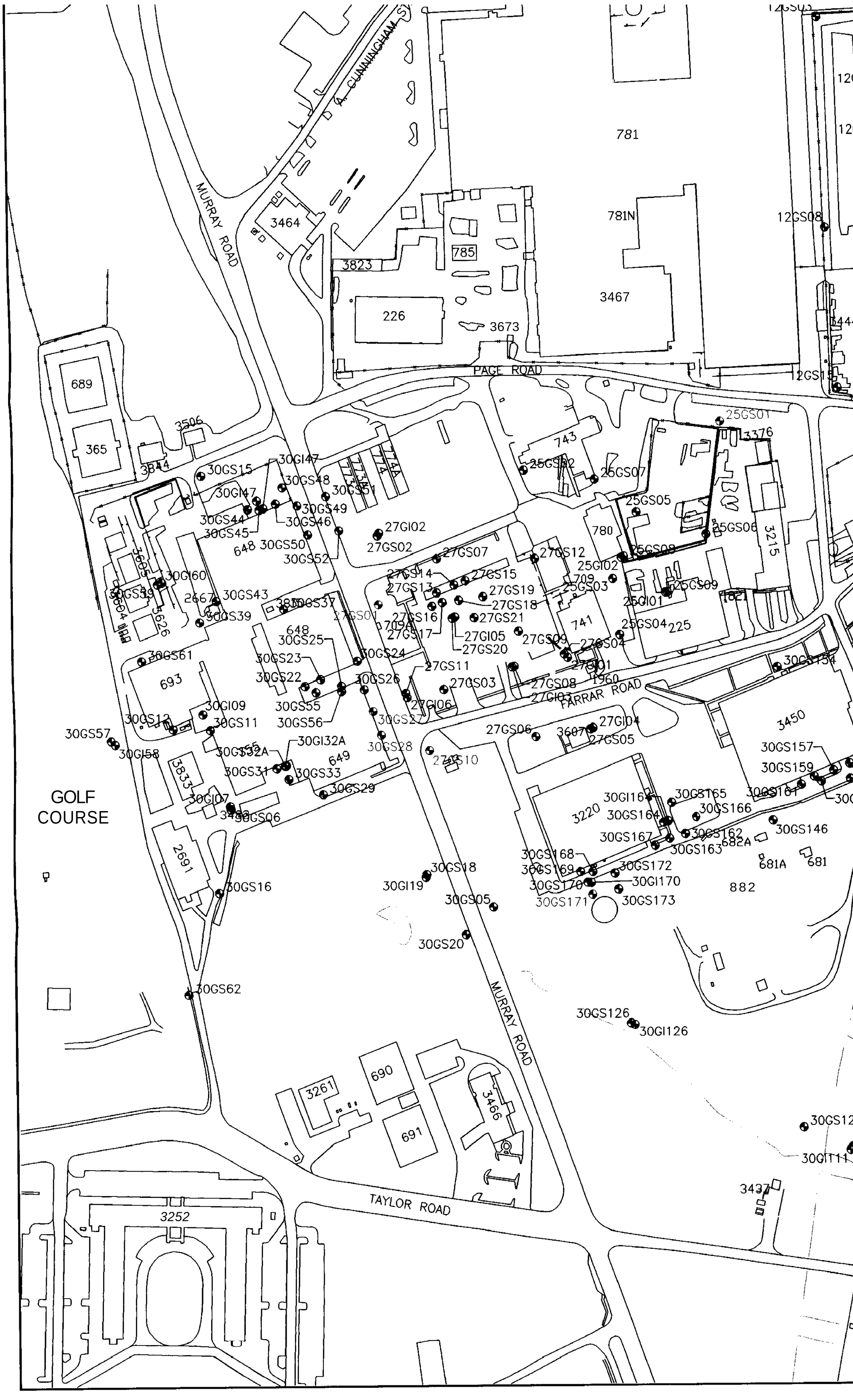
SITE	Monitoring Well ID	Iron (Fe)	Manganese (Mn)
UNITS (µg/L)		1707.8 (2)	50 (1)
11			
	11-G-GS01	**5760**	
	11-G-GS05	3490	
	tt-G-GI02	1030	
	11-G-GI04	579	
	11-G-GS15	3500	106
	11-G-GM47	1710	
25			
	25-G-GS01		
27			
	27-G-GS01	4470	371
	27-G-GS10		52.2
30			
	30-G-GS103	**4680**	**204**
	30-G-GS27	**2810**	
	30-G-GS28	**6970**	
	30-G-SI 71		**95.4**

1 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD
2 = NASP REFERENCE CONCENTRATION

JSACOLA BAY

LEGEND

SURFACE WATER BODY
CLOSED LAGOON
743 BUILDING
FENCE LINE


A. CUNNINGHAM ST
MURRAY ROAD
3464
785
3823
226
3673
781
781N
3467
12GS08
689
365
3506
3844
PAGE ROAD
25GS01
3376
743
25GS02
25GS07
25GS05
25GS06
780
3215
30GS15
30GI47
30GS48
30GS51
30GS49
30GS44
30GS46
30GS45
648
30GS50
30GS52
27GI02
27GS02
27GS07
27GS12
25GI02
709
25GS03
25GS09
25GI01
741
25GS04
225
30GI60
30GS39
2667
30GS43
30GS37
30GS61
693
30GS25
30GS23
30GS22
30GS24
30GS26
27GS11
27GS03
27GS08
27GI03
FARRAR ROAD
30GI09
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30GS56
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30GI32A
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30GS29
30GS28
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27GS06
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30GI164
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682A
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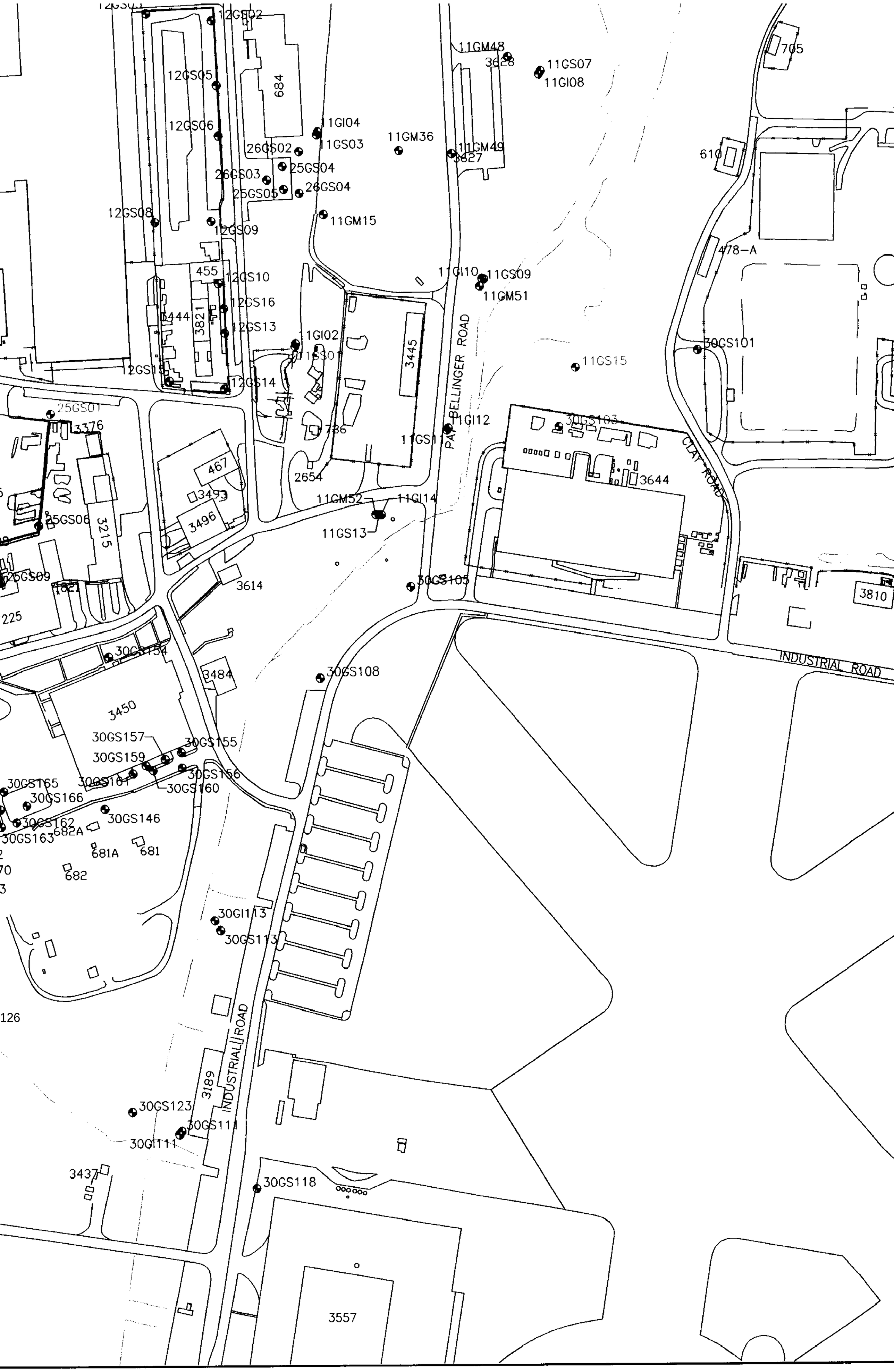
30GS171
30GS173
882
30GI07
30GS06
2691
30GS16
30GI19
30GS18
30GS05
30GS20
30GS62
30GS126
30GI126
MURRAY ROAD
3261
690
691
3466
30GS12
30GI111
3437
TAYLOR ROAD
3252
GOLF
COURSE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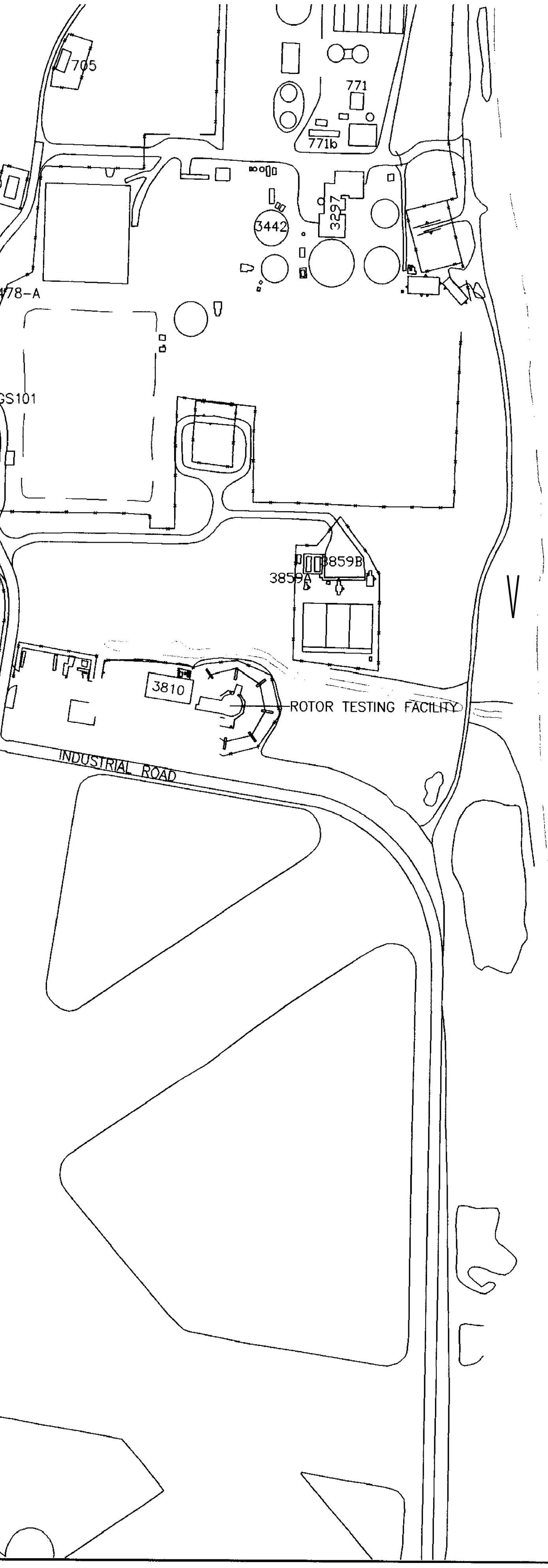
26GS03
26GS04
25GS05
12GS08
12GS09
11GM15
455
12GS10
12GS16
3444
3821
12GS13
1GI02
11GS01
3445
12GS15
12GS14
25GS01
3376
736
2654
467
3493
3496
3215
25GS06
25GS09
1821
225
3614
11GM48
3628
11GS07
11GI08
11GM36
11GM49
3627
11GI10
11GS09
11GM51
BELLINGER ROAD
11GS15
11GI12
11GS11
11GM52
11GI14
11GS13
30GS105
30GS103
CLAY ROAD
3644
705
610
478-A
30GS101
3810
INDUSTRIAL ROAD
30GS154
3484
30GS108
3450
30GS157
30GS155
30GS159
30GS156
30GS165
30GS161
30GS160
30GS166
30GS162
30GS146
30GS163
682A
681A
681
682
30GI113
30GS113
126
3189
INDUSTRIAL ROAD
30GS123
30GS111
30GI111
3437
30GS118
3557

	27-G-GS10
30	
	30-G-GS103
	30-G-GS27
	30-G-GS28
	30-G-S171

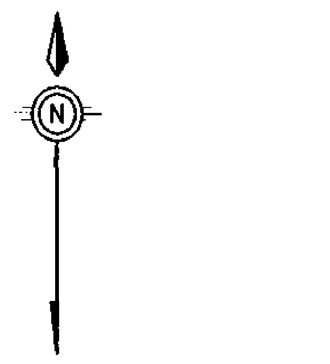
1 = FSDWS-FLORIDA SECOND
2 = NASP REFERENCE CONC



PENSACOLA BAY

743

1. HIGHLIGHTED **MONIT**
ONE **OR** MORE **SEC**
GRAY WELLS **INDICA**
METALS EXCEEDANC
2. J VALUE INDICATES
3. ALL CONCENTRATION



200 0 200
SCALE FEET

	[illegible]		32.2
30			
	30-G-GS103	4680	204
	30-G-GS27	2810	
	30-G-GS28	6970	
	30-G-S171		95.4

1 = FSDWS-FLORIDA SECONDARY DRINKING WATER STANDARD
2 = NASP REFERENCE CONCENTRATION

PENSACOLA BAY

LEGEND

- SURFACE WATER BODY
- CLOSED LAGOON
- 743 BUILDING
- FENCE LINE
- ROADS
- SIDEWALKS
- GROUNDWATER MONITORING WELL
- GROUNDWATER MONITORING WELL (EXHIBITING SHALLOW AND INTERMEDIATE GROUNDWATER-SECONDARY DRINKING WATER METALS EXCEEDANCES.

NOTE

1. HIGHLIGHTED MONITORING WELLS INDICATE THE PRESENCE OF ONE OR MORE SECONDARY DRINKING WATER **METALS** EXCEEDANCES, GRAY WELLS INDICATE THE ABSENCE OF **ANY** SECONDARY DRINKING WATER **METALS** EXCEEDANCES.
2. J VALUE INDICATES CONCENTRATION ESTIMATED BY LABORATORY.
3. **ALL** CONCENTRATIONS **ARE** IN $\mu g/L$.

N

200 0 200
SCALE FEET

NAS PENSACOLA
OPERABLE UNIT 2

FIGURE 52
PHASE II SHALLOW AND INTERMEDIATE GROUNDWATER SECONDARY DRINKING WATER METALS EXCEEDANCES

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