N00204.AR.003918
NAS PENSACOLA
5090.3a

INSTALLATION RESTORATION CONFERENCE SLIDES REGARDING UNDERGROUND STORAGE TANK SITE 18 NAS PENSACOLA FL
6/17/1992
NAS PENSACOLA

PEN_B2D3

INSTALLATION RESTORATION CONFERENCE

JUNE 17, 1992

18 UNDERGROUND STORAGE TANK SITES

NAVAL AVIATION DEPOT (NADEP)

NAVAL AIR STATION
PENSACOLA, FLORIDA

NADEP PENSACOLA

PURPOSE AND SCOPE OF WORK

- 18 PETROLEUM CONTAMINATED SITES IDENTIFIED AT NADEP FACILITY DURING AN UST REMOVAL/REPLACEMENT PROGRAM
- REPORTED CONTENTS OF UST's
  - WASTE OIL/PD-680/UNKNOWN — 14 SITES
  - JP-5/DIESEL — 3 SITES
  - GASOLINE — 1 SITE
- INVESTIGATION PERFORMED UNDER CHAPTER 17-770 FAC GUIDELINES
  - SOIL BORINGS AND MONITORING WELLS
  - SOIL AND GROUNDWATER SAMPLING

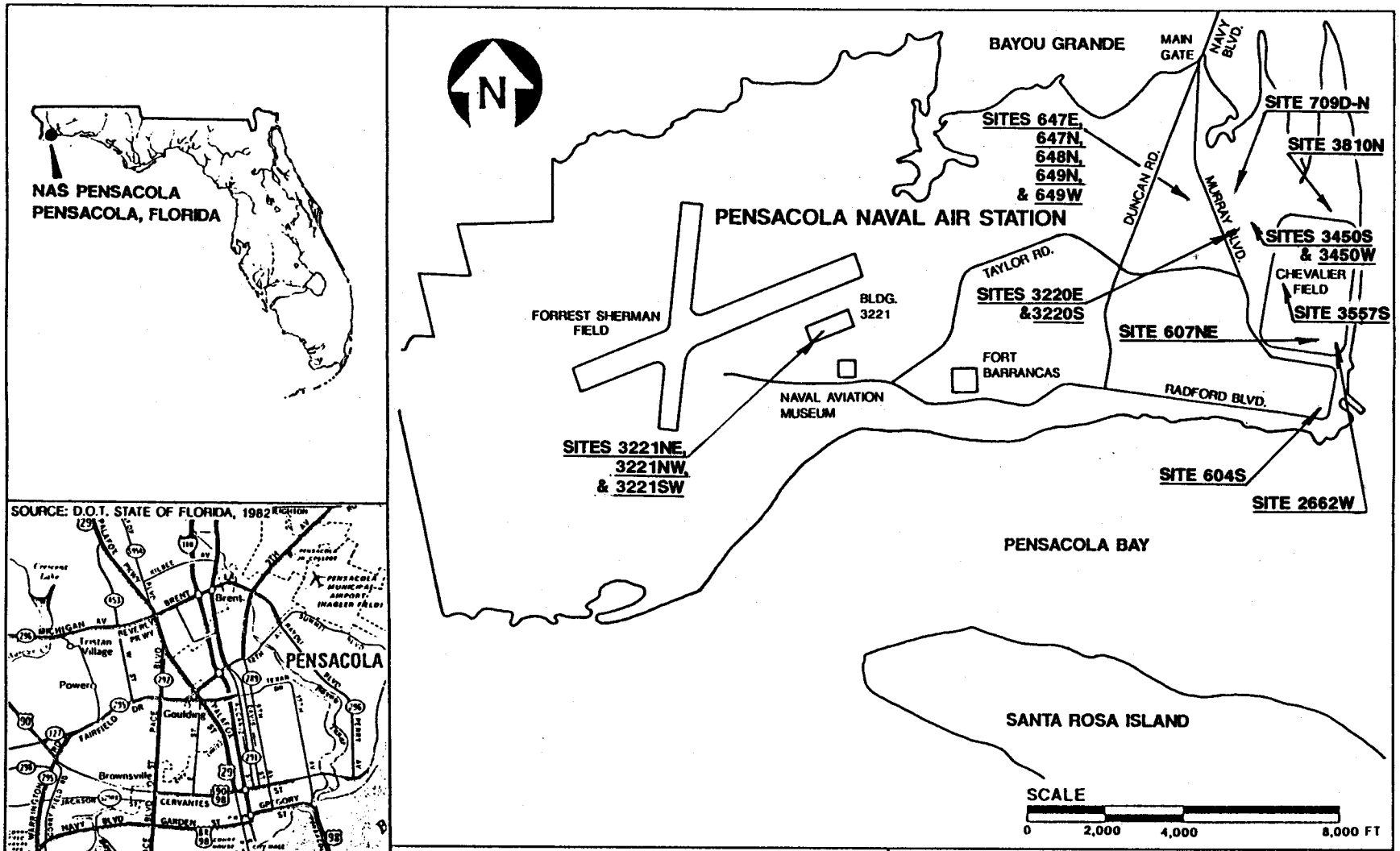


FIGURE
SITE LOCATIONS VICINITY MAP

CONTAMINATION ASSESSMENT REPORT

NADEP PENSACOLA
PENSACOLA, FLORIDA

NADEP PENSACOLA

FINDINGS

- NO SIGNIFICANT CONTAMINATION FOUND AT 4 SITES:
  - 607NE
  - 3450W
  - 3221NW
  - 3557S
- PETROLEUM CONTAMINATED SITES:
  - 2662W - INVESTIGATION NOT COMPLETED
  - 3221NE
  - 3810N
- 11 SITES CONTAMINATED WITH PETROLEUM AND NON-PETROLEUM COMPOUNDS:
  - 604S
  - 709D-N
  - 3220E
  - 3220S
  - 3221SW
  - 3450S
  - 647E
  - 647N
  - 648N
  - 649N
  - 649W

  649 COMPLEX

NADEP PENSACOLA

STATUS

- INVESTIGATION HALTED FOR THE 11 "NON-PETROLEUM" SITES
- EXTENT OF CONTAMINATION PLUME NOT DELINEATED AT ABOVE SITES
  - OTHER SOURCES?
  - COMMINGLING OF PLUMES
- FUTURE INVESTIGATION TO CONTINUE UNDER GUIDELINES OF;
  - CERCLA?
  - 17-770 FAC?

Groundwater Sampling Results
February 26, 1992 Sampling Event

Contamination Assessment Report
Site 604S, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW1 dupli-cate	MW2	MW3	MW4	MW5	MW6	MW7	MW8	MW9	MW10	MW10 dupli-cate	MW11	MW12D
1,1-Dichloroethane	2,400	ND	ND	ND	ND	ND	39	3	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethene	4.2	1,500	1,400	100	ND	ND	ND	13	130	64	77	1,200	150	ND	1
Methylene chloride	5	310	ND	ND	ND	ND	ND	7	ND	5	ND	ND	3	ND	ND
Tetrachloroethene	3	280	ND	120	9,100	ND	ND	14	11	160	ND	ND	11	ND	4
1,1,1-Trichloroethane	200	ND	ND	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3	250	ND	37	ND	ND	ND	19	35	63	ND	ND	34	ND	ND
Vinyl chloride	1	1,300	570	8	ND	1,700	6	ND	27	ND	350	ND	31	500	ND
Ethyl benzene		ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes		52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOA	50	52	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		20	ND	ND	ND	79	94	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylnaphthalene		10	ND	ND	ND	29	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene		11	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total naphthalenes	100	41	ND	ND	ND	143	94	ND	ND	ND	ND	ND	ND	ND	ND
Dibenzofuran	NL	ND	ND	ND	ND	ND	ND	ND	ND	58	ND	ND	ND	ND	ND
TRPH	5	6	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cadmium	10	ND	ND	58	210	ND	ND	10	ND	ND	ND	ND	ND	ND	ND
Lead	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
NL = not listed.
TRPH = total recoverable petroleum hydrocarbons.

Equipment blank was ND for compounds.
Trip blank was ND for compounds.
Laboratory blank contained 5 ppb methylene chloride.

Groundwater Sampling Results
February 26, 1992 Sampling Event

Contamination Assessment Report
Site 604S, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW4	MW5	MW8	MW9	MW12D
Unknown alkane	1,300	ND	ND	ND	ND	11
1-ethyl-2-methyl benzene	610	350	ND	ND	ND	11
1-ethyl-3-methyl benzene	ND	1,200	ND	ND	ND	ND
1-ethyl-4-methyl benzene	1,000	290	ND	ND	ND	ND
1-ethyl-2,4-diethyl benzene	67	ND	ND	ND	ND	ND
1-ethyl-3,5-dimethyl benzene	42	ND	29	ND	ND	7
2-ethyl-1,4-dimethyl benzene	ND	86	30	ND	6	7
4-ethyl-1,2-dimethyl benzene	ND	94	ND	ND	ND	ND
1,2-diethyl benzene	ND	43	29	ND	8	ND
1,3-diethyl benzene	ND	50	26	ND	5	ND
1-methylethyl benzene	50	32	57	ND	5	ND
1-methyl-2-(1-methylethyl) benzene	640	ND	45	ND	ND	11
1-methyl-3-(1-methylethyl) benzene	810	ND	22	ND	ND	18
1-methyl-4-(1-methylethyl) benzene	550	ND	ND	ND	ND	ND
Methyl (1-methylethyl) benzene	1100	89	ND	ND	ND	44
1,2,3-trimethyl benzene	110	460	ND	ND	ND	ND
1,2,4-trimethyl benzene	920	ND	ND	ND	ND	9
1,3,5-trimethyl benzene	ND	360	ND	ND	7	10
1,2,3,4-tetramethyl benzene	ND	ND	51	ND	ND	ND
1-methylpropyl benzene	ND	ND	23	ND	ND	ND
2,4-dimethyl-1-(1-methylethyl) benzene	ND	ND	ND	ND	ND	5
1-methyl-3-propyl benzene	590	ND	ND	ND	ND	14
Propyl benzene	ND	160	66	ND	ND	ND
(4-methylpentyl) cyclohexane	950	ND	ND	ND	ND	ND
3-ethyl-5-methyl heptane	76	ND	ND	ND	ND	ND
2,5-dimethyl octane	48	ND	ND	ND	ND	ND
Decane	120	ND	ND	ND	ND	7
2-methyl decane	56	ND	ND	ND	ND	ND
4-methyl decane	62	ND	ND	ND	ND	ND
3-ethenyl-1,2-dimethyl-1,4-cyclhexadiene	ND	88	ND	ND	ND	ND
Sulfur	ND	68	ND	ND	10	ND
1,1'-(1-ethenyl-1,3-propanediyl) bis-benzene	ND	ND	34	ND	ND	ND
2,3-dihydro-1H-indene	ND	ND	16	ND	ND	ND
Naugard 431	ND	ND	35	ND	ND	ND
1,2,3,4-tetrahydro-naphthalene	ND	ND	13	ND	ND	ND
Octacosane	ND	ND	44	ND	ND	ND
Eicosane	ND	ND	43	ND	ND	ND
1,2-dimethyl naphthalene	ND	ND	ND	30	ND	ND
1,5-dimethyl naphthalene	ND	ND	ND	11	ND	ND
2-ethyl naphthalene	ND	ND	ND	11	ND	ND
1-chloro-4-tert-butyl-benzene	ND	ND	ND	18	ND	ND
Dibenzothiophene	ND	ND	ND	13	ND	ND
(2,4-dimethylphenyl)-2,5-dimethyl benzoic acid	ND	ND	ND	ND	ND	8
Alpha-pinene	ND	ND	ND	ND	ND	14
D-fenchyl cicohol	ND	ND	ND	ND	ND	39
Camphor	ND	ND	ND	ND	ND	12
1-borneal	ND	ND	ND	ND	ND	10
Unknown	ND	ND	ND	ND	ND	30

Concentrations in ppb.

Note: ND = not detected.

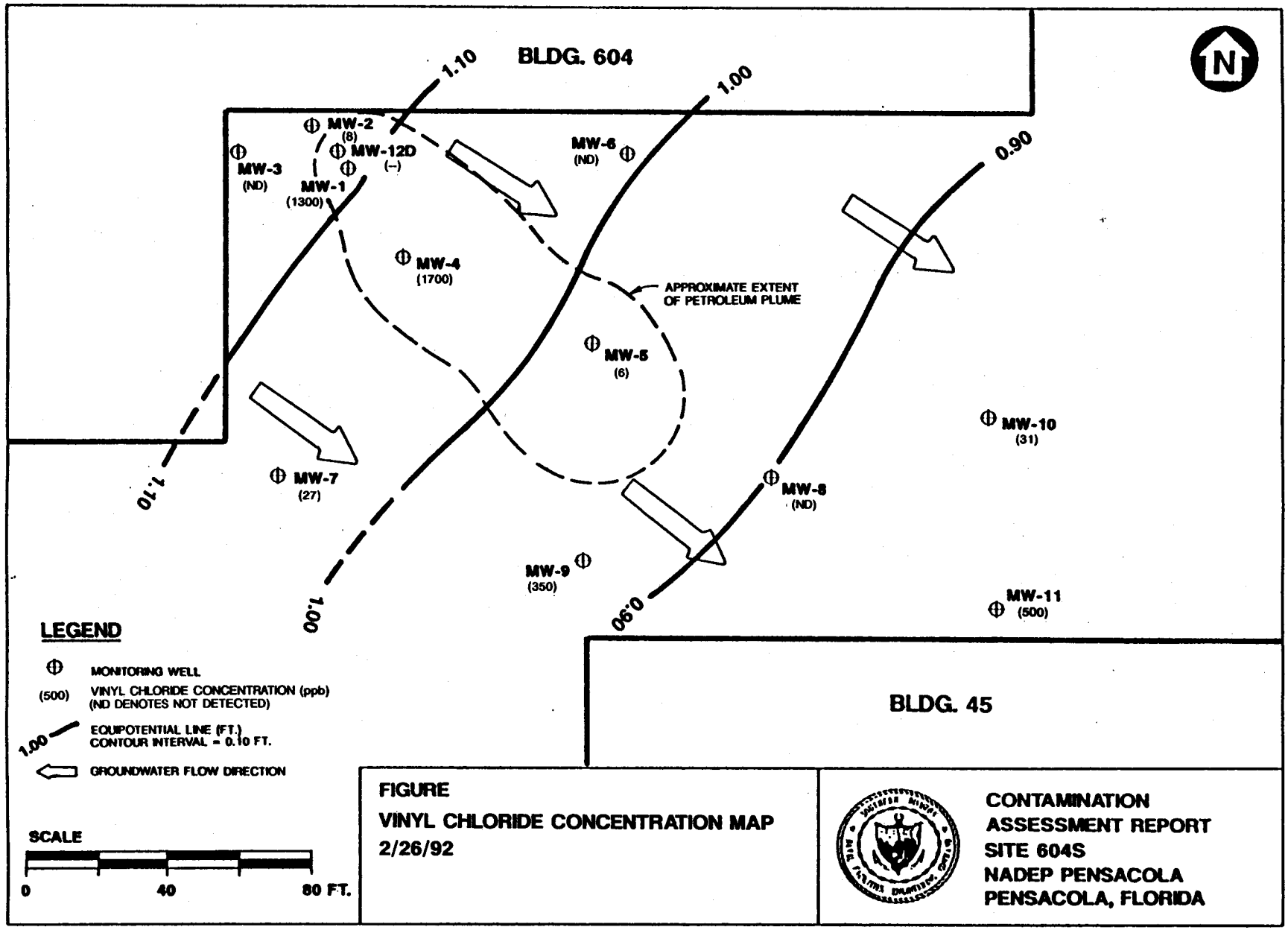


FIGURE
VINYL CHLORIDE CONCENTRATION MAP
2/26/92

CONTAMINATION
ASSESSMENT REPORT
SITE 604S
NADEP PENSACOLA
PENSACOLA, FLORIDA

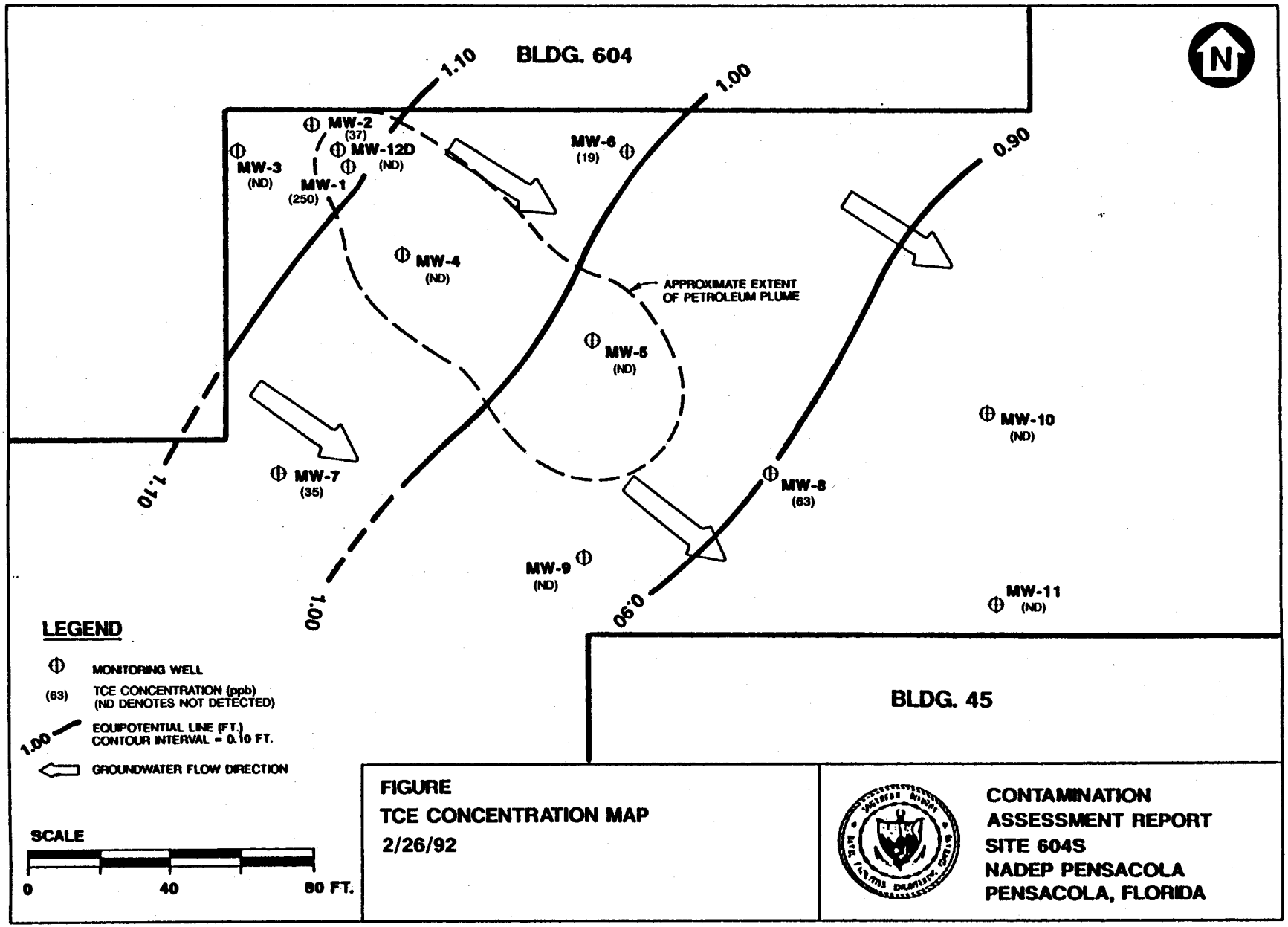


FIGURE
TCE CONCENTRATION MAP
2/26/92

CONTAMINATION
ASSESSMENT REPORT
SITE 604S
NADEP PENSACOLA
PENSACOLA, FLORIDA

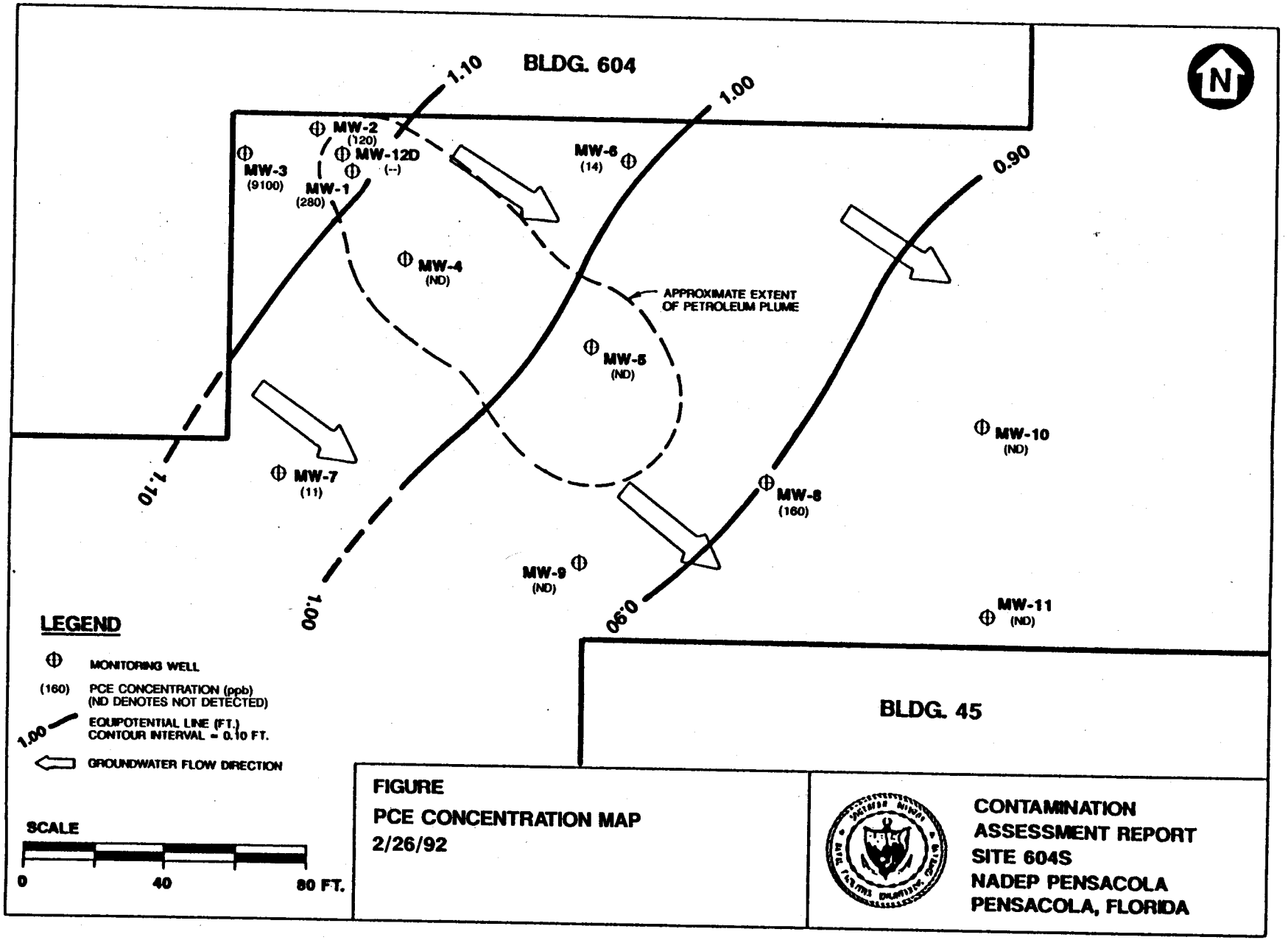


FIGURE
PCE CONCENTRATION MAP
2/26/92

CONTAMINATION
ASSESSMENT REPORT
SITE 604S
NADEP PENSACOLA
PENSACOLA, FLORIDA

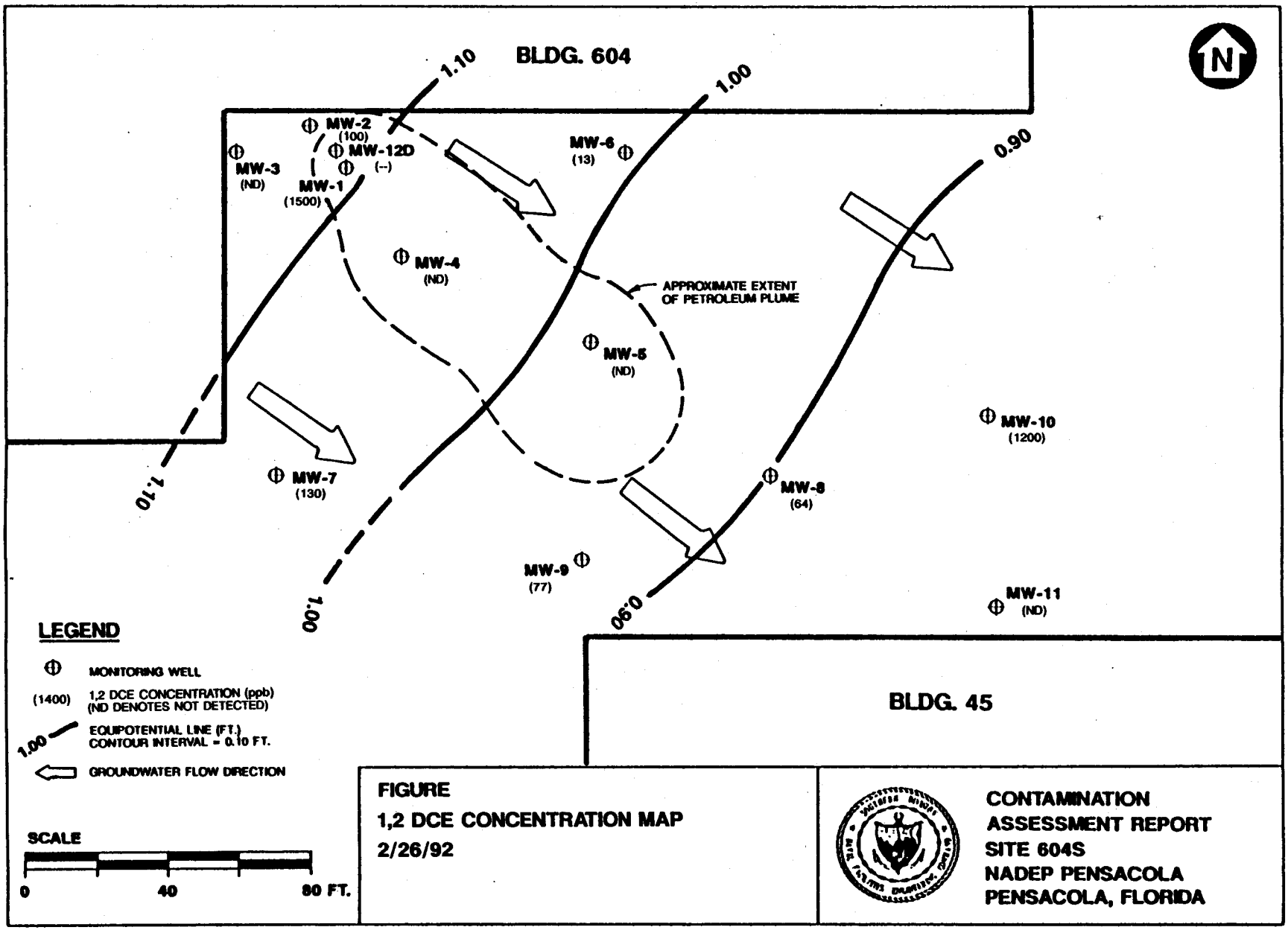


FIGURE
1,2 DCE CONCENTRATION MAP
2/26/92

CONTAMINATION
ASSESSMENT REPORT
SITE 604S
NADEP PENSACOLA
PENSACOLA, FLORIDA

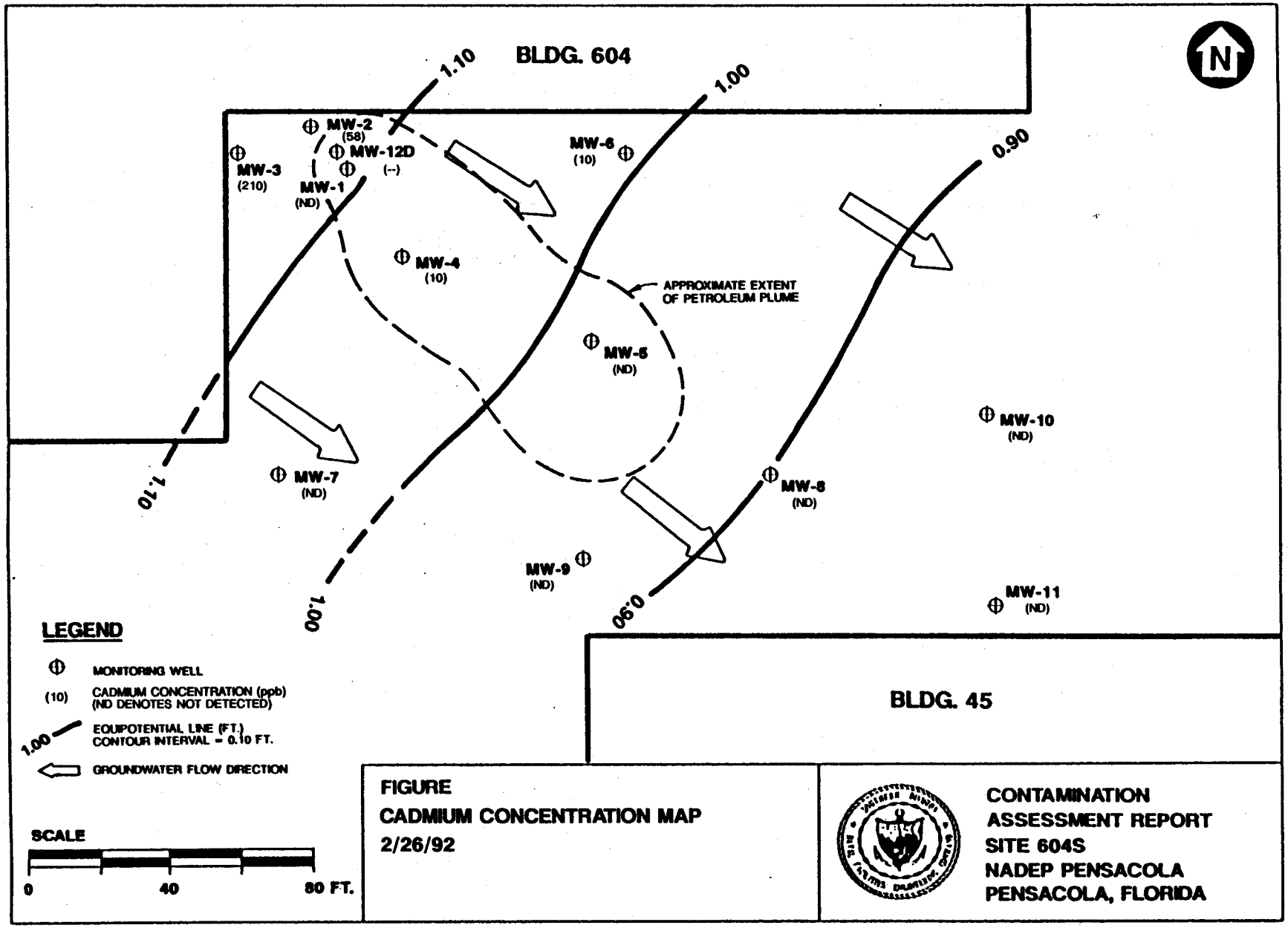


FIGURE
CADMIUM CONCENTRATION MAP
2/26/92

CONTAMINATION ASSESSMENT REPORT
SITE 604S
NADEP PENSACOLA
PENSACOLA, FLORIDA

NADEP PENSACOLA

BUILDING 649 COMPLEX

- SITES:
  - 647E
  - 647N
  - 648N
  - 649N
  - 649W

CONTAMINANTS OF CONCERN

- 1,1,1-TRICHLOROETHANE (1,1,1-TCA)
- TRICHLOROETHENE (TCE)
- TETRACHLOROETHENE (PCE)
- METHYLENE CHLORIDE
- 1,1-DICHLOROETHENE (1,1-DCE)
- CHROMIUM

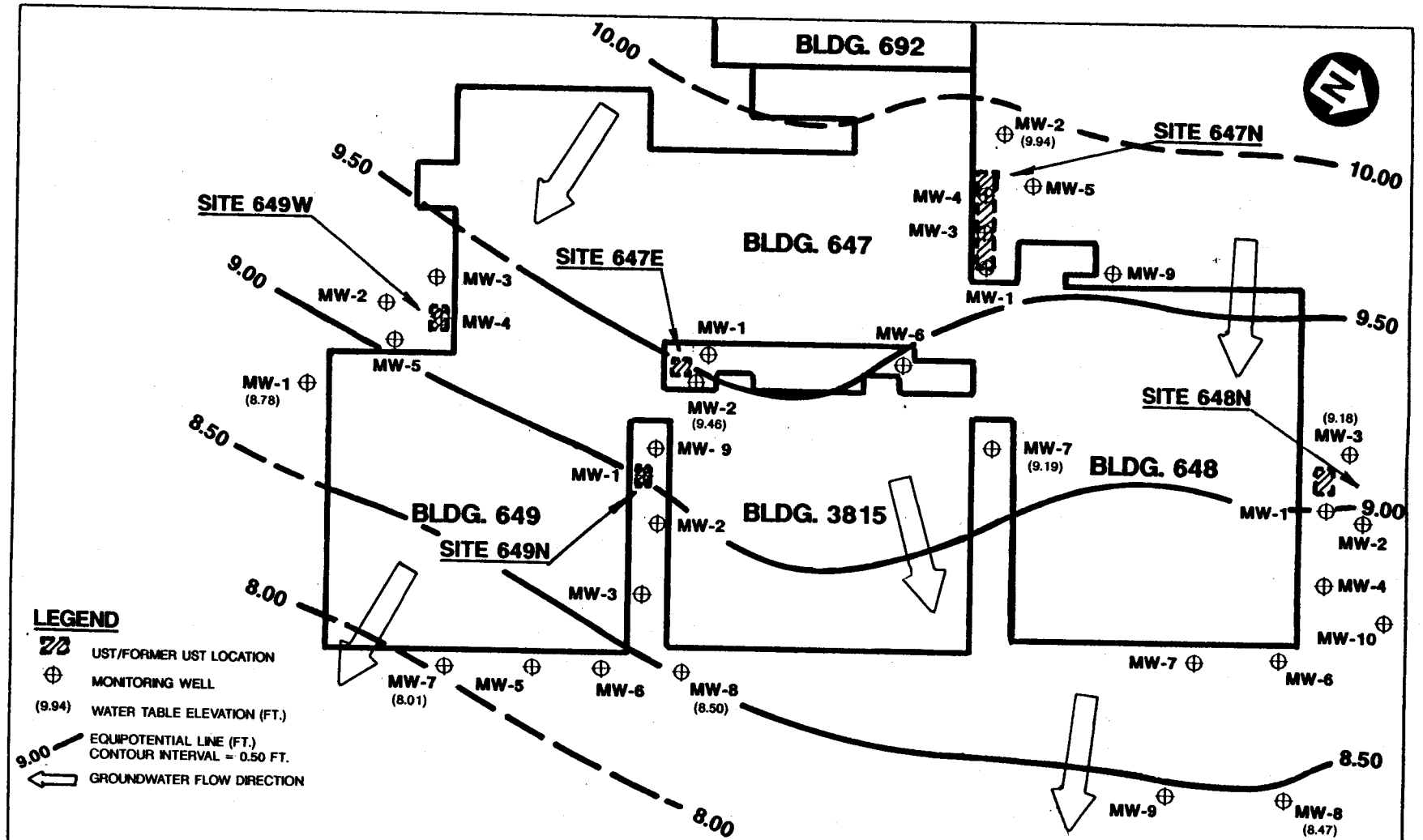


FIGURE
WATER TABLE ELEVATION CONTOUR MAP
3/30/92

CONTAMINATION
ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

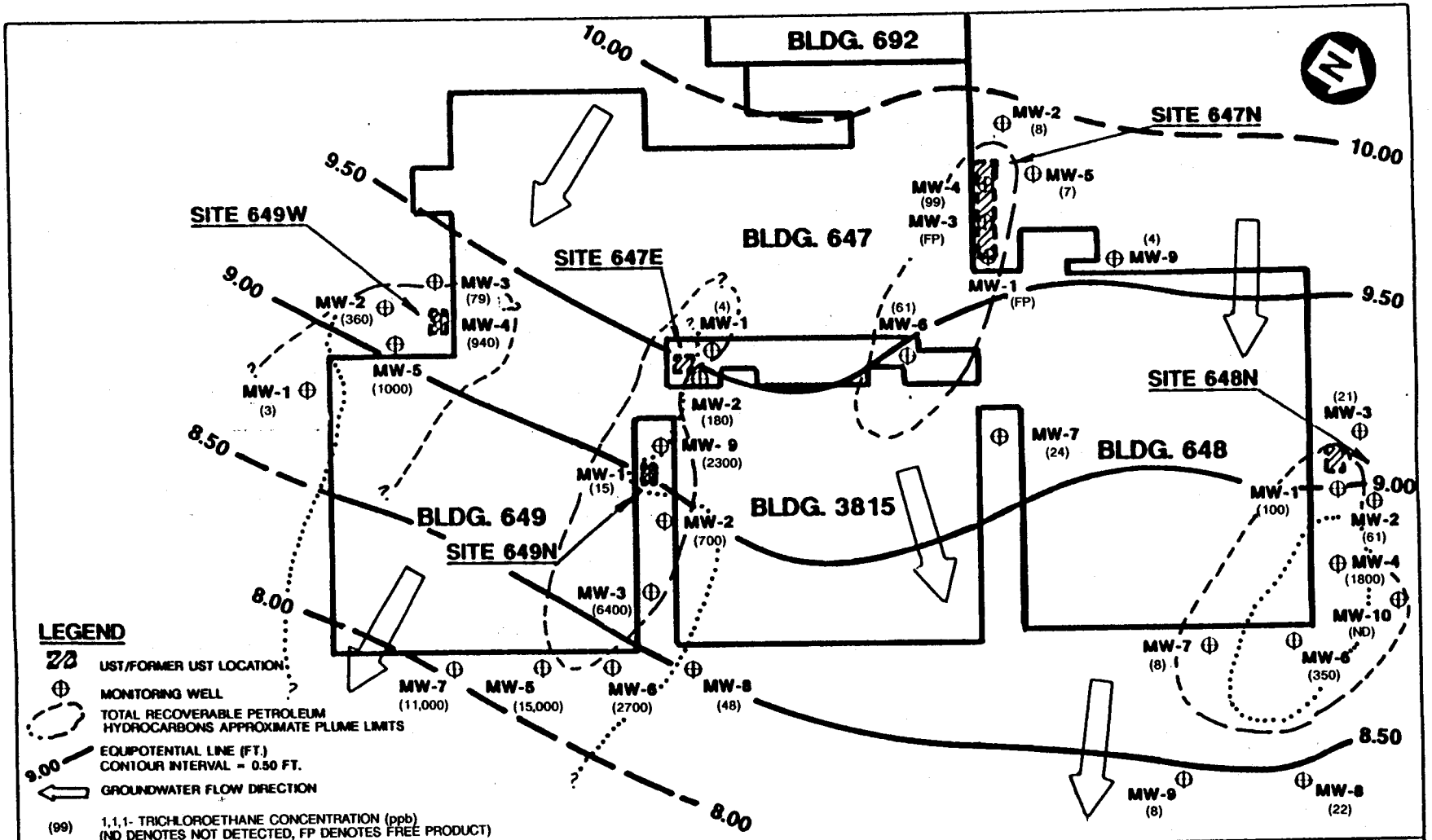


FIGURE
1,1,1-TRICHLOROETHANE
CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION
ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

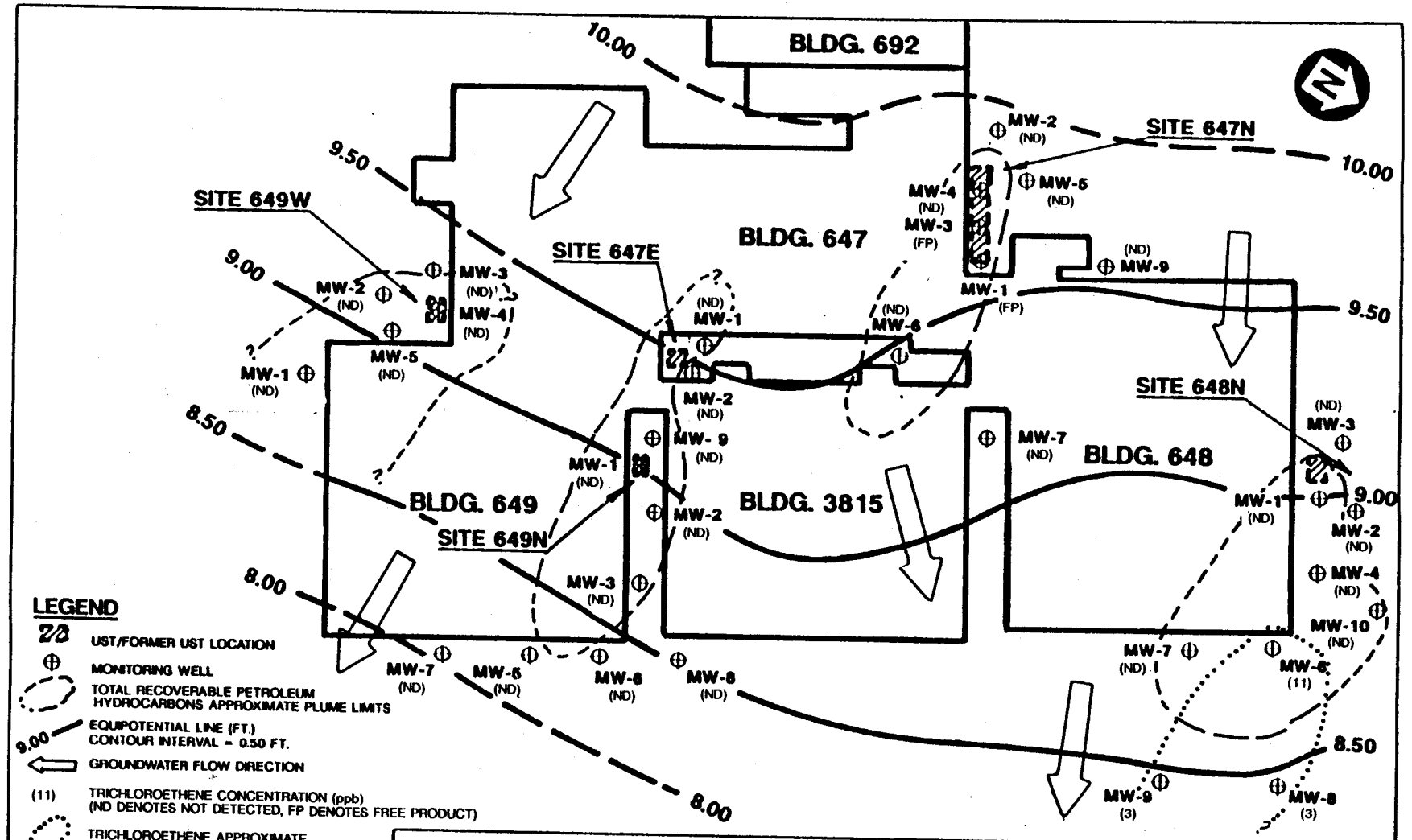


FIGURE
TRICHLOROETHENE CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

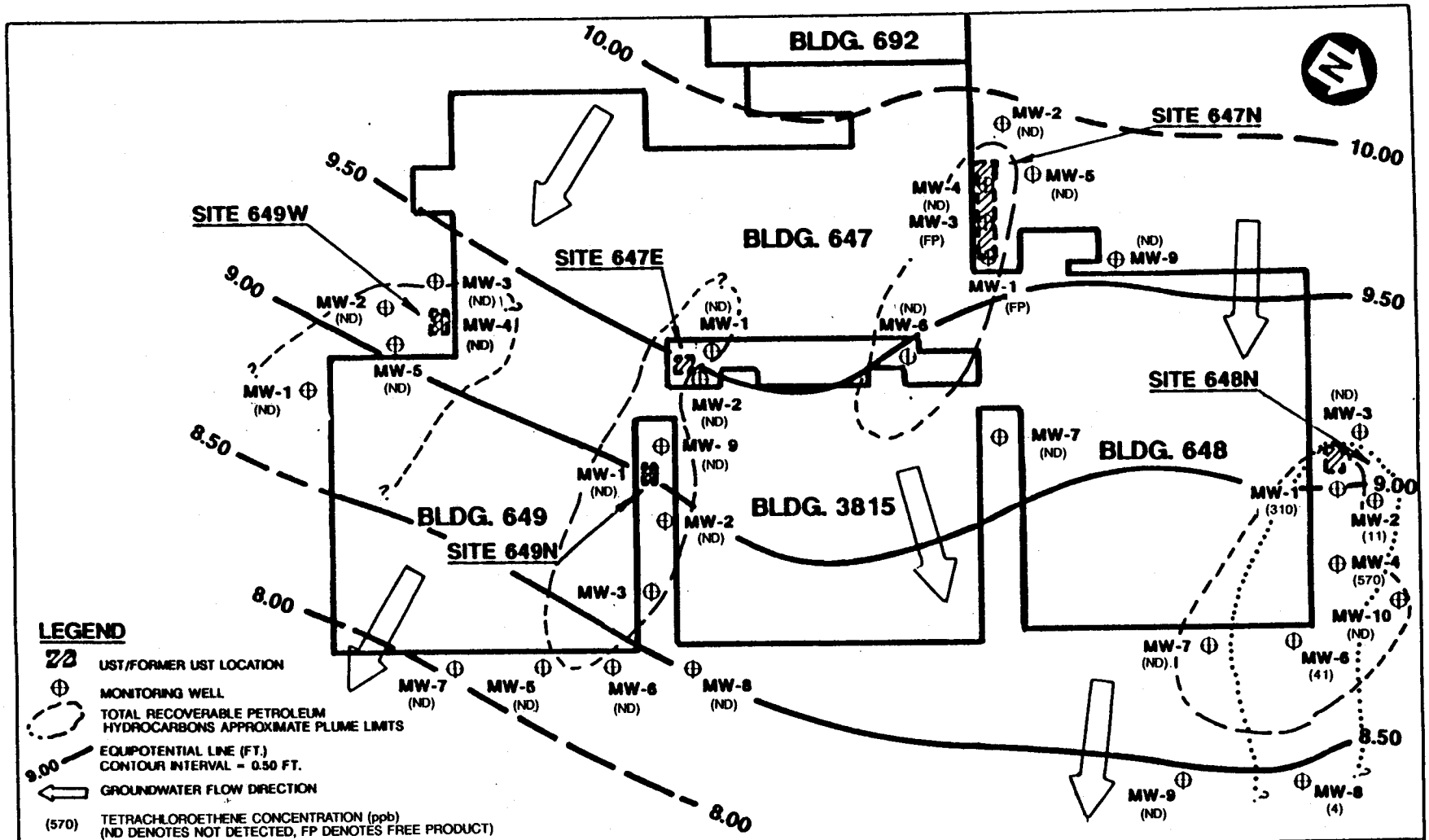


FIGURE
TETRACHLOROETHENE
CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION
ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

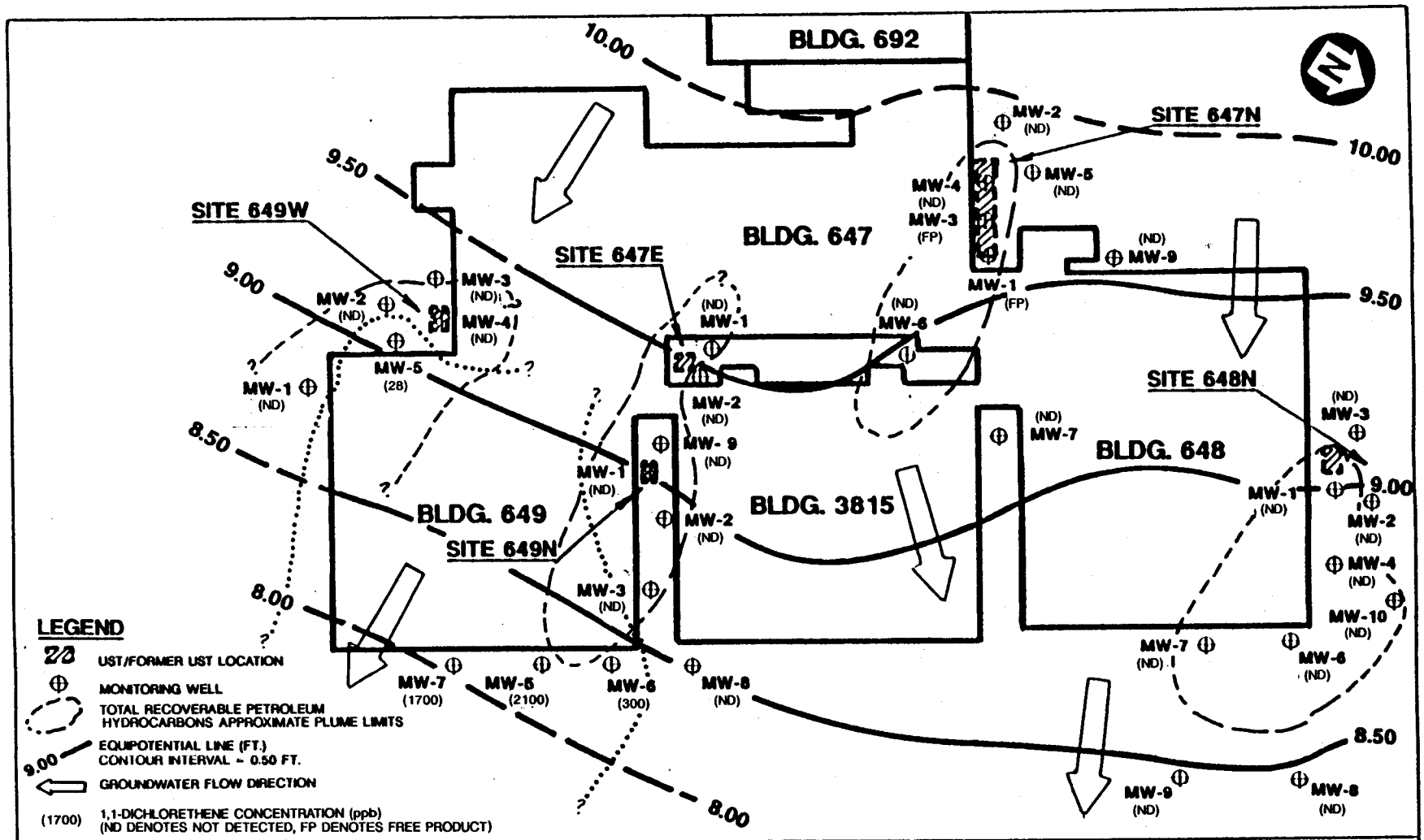


FIGURE
1,1-DICHLOROETHENE
CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION
ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

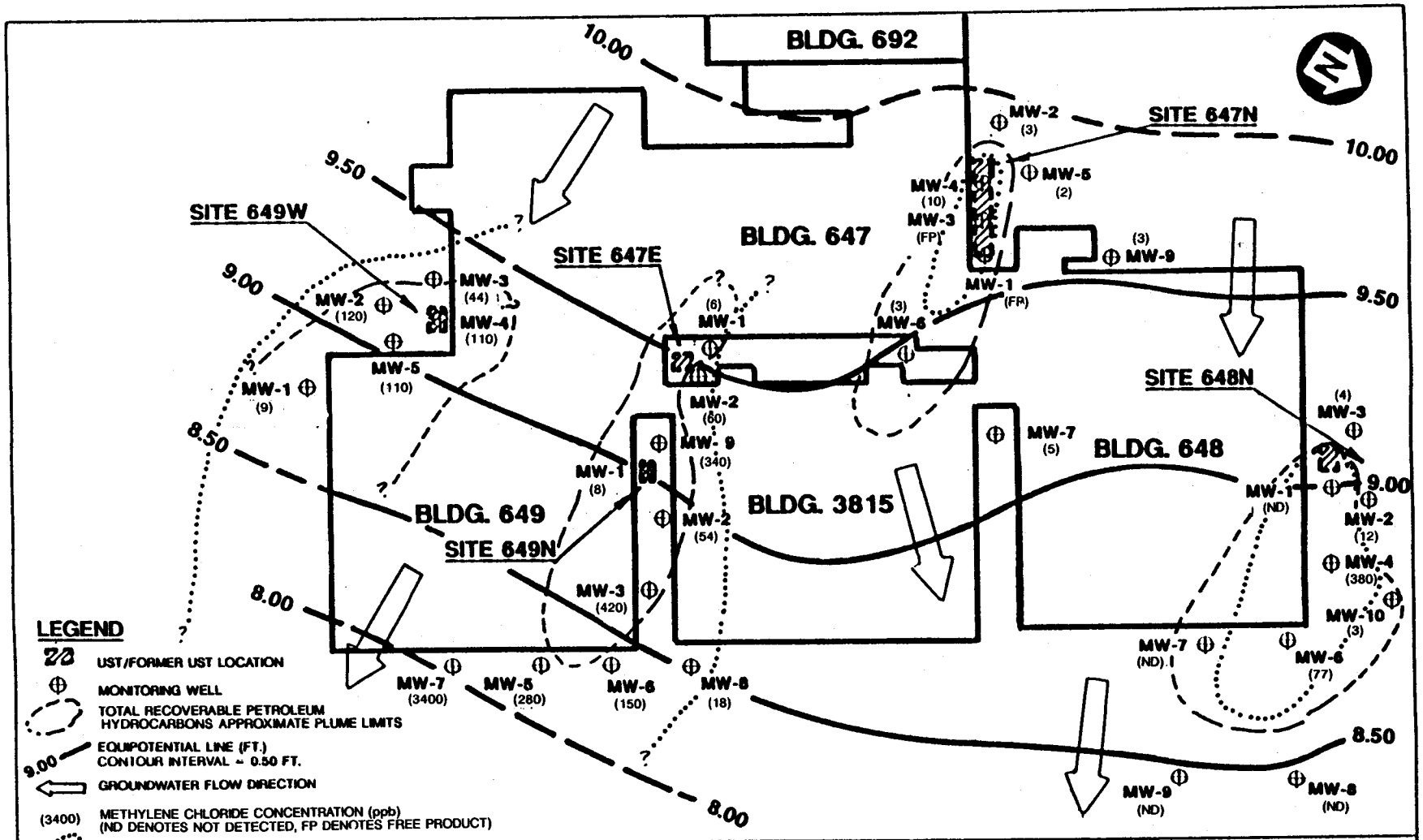


FIGURE
METHYLENE CHLORIDE
CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION
ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

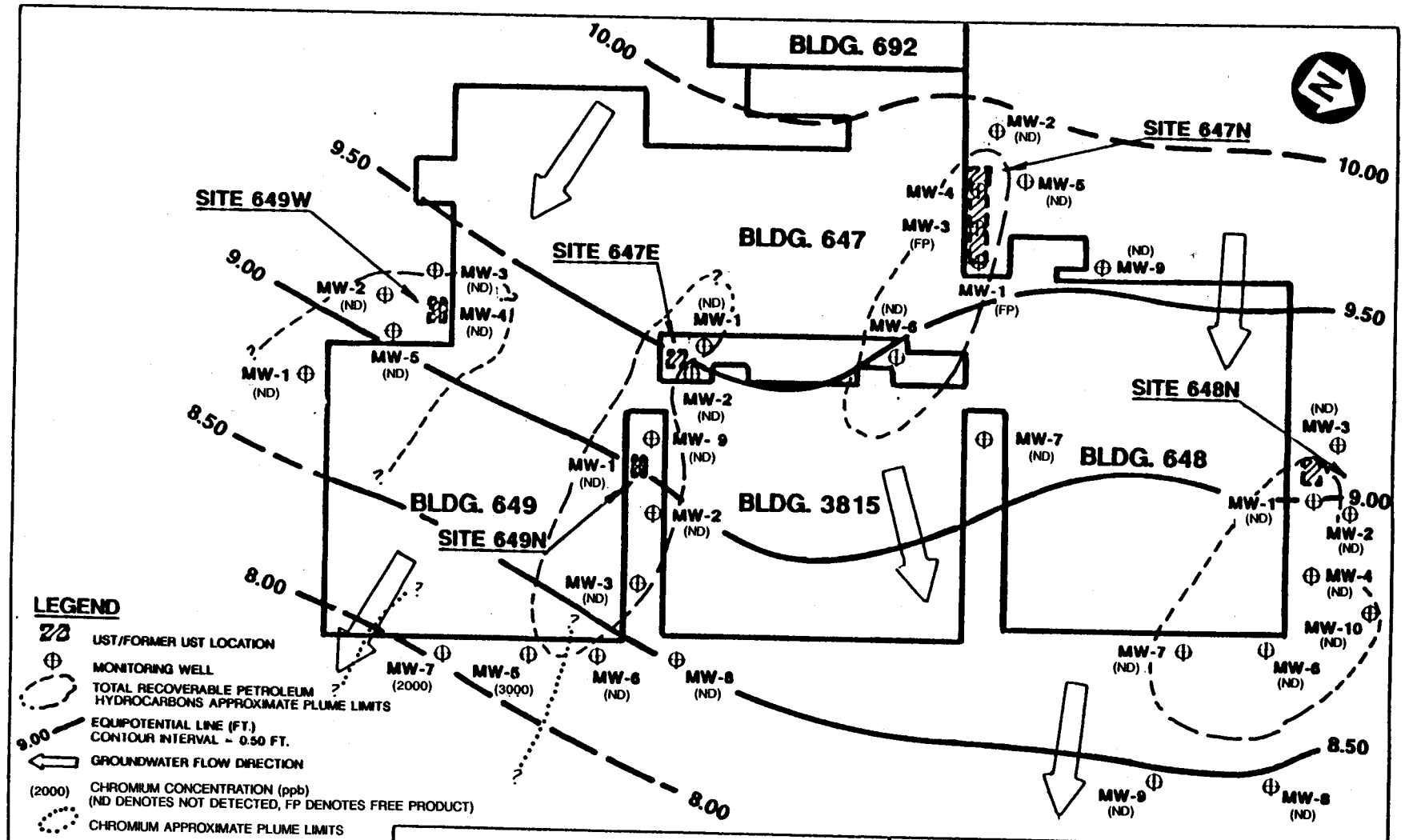


FIGURE
CHROMIUM CONCENTRATION MAP
FEB. - MAR., 1992

CONTAMINATION ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

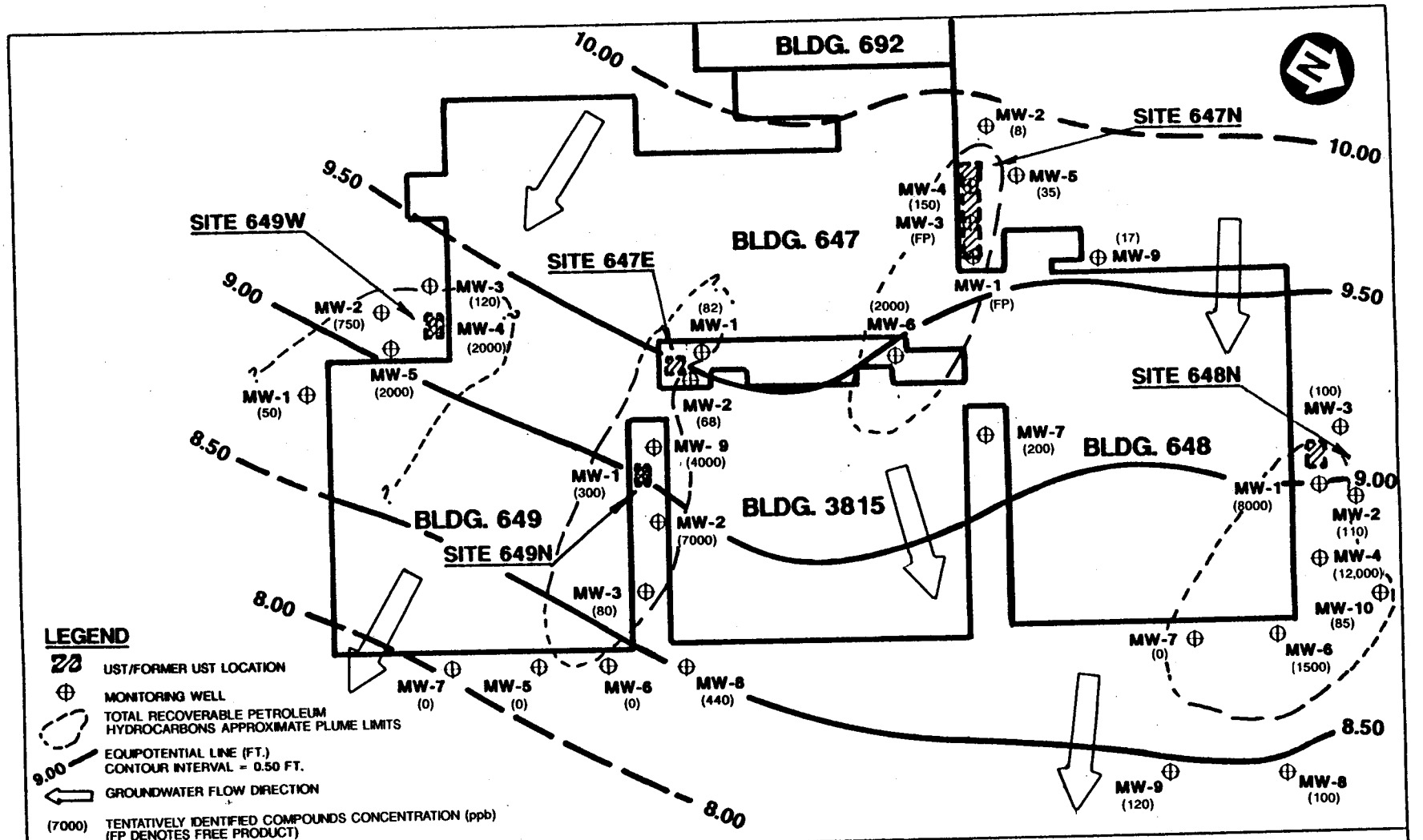


FIGURE
TENTATIVELY IDENTIFIED COMPOUNDS MAP
FEB. - MAR., 1992

CONTAMINATION ASSESSMENT REPORT
BLDG. 649 COMPLEX
NADEP PENSACOLA
PENSACOLA, FLORIDA

Groundwater Sampling Results
March 4, 1992 Sampling Event

Contamination Assessment Report
Site 647E, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/guidance concentration	MW1	MW1 Duplicate	MW2	Trip blank	Lab blank
Methylene chloride	5	5	6	60	5	5
1,1,1-Trichloroethane	200	4	4	180	ND	ND
Bis(2-Ethylhexyl)phthalate	NL	ND	ND	16	ND	ND
1,1-Dichloroethane	2,400	ND	2	ND	ND	ND
TRPH	5	ND	2	ND	ND	ND
Other tentatively identified compounds and their estimated concentrations						
1-Ethyl-2-methyl benzene		10	9	ND	ND	ND
1-Ethyl-4-methyl benzene		25	22	ND	ND	ND
1-Ethyl-3-methyl benzene		11	9	ND	ND	ND
Diethyl benzene		4	3	ND	ND	ND
1-Methyl-2-propyl benzene		4	3	ND	ND	ND
2-Ethyl-1,4-dimethyl benzene		5	4	ND	ND	ND
4-Ethyl-1,2-dimethyl benzene		4	3	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene		4	3	ND	ND	ND
1,2,3,4-Tetramethyl benzene		4	3	ND	ND	ND
Unknown		4	3	ND	ND	ND
Benzene,1,2,3-trimethyl		7	6	ND	ND	ND
2-Propanol		ND	ND	25	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
NL = not listed.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 4, 1992 Sampling Event

Contamination Assessment Report
Site 647N, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW2	MW4	MW5	MW6	MW7	MW8D	MW9	MW9 duplicate	Trip blank	Lab blank
Methylene chloride	5	3	10	2	3	5	1	3	ND	ND	1
Chloroform	100	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
1,1-Dichloroethane	2,400	ND	130	2	36	160	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	3	99	7	61	24	1	2	4	ND	ND
Ethyl benzene		ND	ND	ND	3	ND	ND	ND	ND	ND	ND
Xylene (total)		ND	45	ND	96	20	3	ND	ND	ND	ND
Total VOA	50	ND	45	ND	99	20	3	ND	ND	ND	ND
Naphthalene	100	ND	11	ND	8	ND	ND	ND	ND	ND	ND
TRPH	5	ND	68	ND	2	ND	ND	ND	ND	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

MW1 and MW3 contained free product at time of sampling.

Notes: ND = not detected.
VOA = volatile organic aromatics.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 4, 1992 Sampling Event

Contamination Assessment Report
Site 647N, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW2	MW4	MW5	MW6	MW7	MW8D	MW9	MW9 duplicate	Trip blank	Lab blank
1,1,2-Trichloro-1,2,2-trifluoro-ethane	8	23	31	ND	ND	ND	ND	ND	ND	1
1,2-Dichloro-1,1,2-trifluoro-ethane	ND	9	4	ND	78	ND	ND	ND	ND	ND
1,3-Diethyl-5-methl-benzene	ND	ND	ND	ND	ND	12	ND	ND	ND	ND
1-Ethyl-2-methyl-benzene	ND	8	ND	350	34	ND	ND	ND	ND	ND
1-Ethyl-3-methyl-benzene	ND	12	ND	440	20	ND	ND	ND	ND	ND
1-Ethyl-4-methyl-benzene	ND	17	ND	180	28	ND	ND	ND	ND	ND
1-Methyl-2,3-dimethyl-benzene	ND	ND	ND	29	ND	ND	ND	ND	ND	ND
1-Ethyl-3,5-dimethyl-benzene	ND	ND	ND	ND	ND	6	ND	ND	ND	ND
2-Ethyl-1,3-dimethyl-benzene	ND	ND	ND	ND	ND	5	ND	ND	ND	ND
2-Ethyl-1,4-dimethyl-benzene	ND	10	ND	170	7	21	ND	ND	ND	ND
1,2,3-Trimethyl-benzene	ND	ND	ND	130	ND	5	ND	ND	ND	ND
1,2,4-Trimethyl-benzene	ND	26	ND	77	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl-benzene	ND	ND	ND	ND	58	ND	ND	ND	ND	ND
1,2,3,4-Tetramethyl-benzene	ND	5	ND	ND	ND	20	ND	ND	ND	ND
1,2,3,5-Tetramethyl-benzene	ND	ND	ND	ND	ND	16	ND	ND	ND	ND
(1-Methylethyl)-benzene	ND	ND	ND	230	30	20	ND	ND	ND	ND
Methyl(1-methylethyl)-benzene	ND	4	ND	67	ND	28	ND	ND	ND	ND
1-Methyl-naphthalene	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
2-Methyl-naphthalene	ND	ND	ND	ND	ND	ND	5	ND	ND	ND
1-(2-Methylphenyl)-ethanone	ND	ND	ND	28	ND	ND	ND	ND	ND	ND
2-Methyl-decane	ND	30	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dimethyl-undecane	ND	14	ND	ND	ND	ND	ND	ND	ND	ND
Dodecane	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
Pentadecane	ND	18	ND	ND	ND	ND	ND	ND	ND	ND
2-Methyl-1-penten-3-ol	ND	ND	ND	ND	ND	8	ND	ND	ND	ND
3-Methyl-nonane	ND	19	ND	ND	ND	ND	ND	ND	ND	ND
2,3-Dihydro-1-methyl-1H-indene	ND	6	ND	ND	ND	ND	ND	ND	ND	ND
2,3-Dihydro-4-methyl-1H-indene	ND	ND	ND	70	ND	ND	ND	ND	ND	ND
2,3-Dihydro-1,3-dimethyl-1H-indene	ND	ND	ND	ND	ND	7	ND	ND	ND	ND
1,2-Dimethyl-naphthalene	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
Trans-decahydro-naphthalene	ND	18	ND	ND	ND	7	ND	ND	ND	ND
Hexyl-cyclo-hexane	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
Hexamethyl-cyclotrisiloxane	ND	ND	ND	ND	ND	ND	ND	12	ND	ND
Unknown siloxane	ND	ND	ND	ND	ND	ND	ND	6	ND	ND
1-Methyl-2-propyl benzene	ND	ND	ND	36	6	21	ND	ND	ND	ND
1-Methyl-3-propyl benzene	ND	ND	ND	120	7	38	ND	ND	ND	ND
1-Methyl-4-propyl benzene	ND	ND	ND	61	ND	ND	ND	ND	ND	ND
1-Methyl-2-(1-methylethyl)-benzene	ND	ND	ND	85	ND	26	ND	ND	ND	ND
1-Methyl-3-(1-methylethyl)-benzene	ND	ND	ND	170	ND	24	ND	ND	ND	ND
1-Methyl-4-(1-methylethyl)-benzene	ND	ND	ND	47	9	9	ND	ND	ND	ND
2-Propanol	ND	ND	ND	ND	ND	460	10	ND	ND	ND
bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	12	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
February 25, 1992 Sampling Event

Contamination Assessment Report
Site 648N, Naval Aviation Depot
Pensacola, Florida

Compounds	Regulatory/ guidance concentration	MW1	MW2	MW3	MW3 Duplicate	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Equipment blank	Trip blank	Lab blank
Tetrachloroethene	3	310	11	ND	1	570	140	41	ND	4	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	100	61	16	21	1,800	ND	350	8	22	8	ND	ND	ND	ND
1,2,4-Trichlorobenzene	140	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Methylene Chloride	5	ND	12	ND	4	380	38	77	ND	ND	ND	3	7	6	5
Naphthalene	100	ND	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	3	ND	ND	ND	ND	ND	ND	11	ND	3	3	ND	ND	ND	ND
Xylenes		ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND
Total VOA	50	ND	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	2,400	ND	ND	ND	ND	ND	ND	26	ND	3	ND	ND	ND	ND	ND
Chloroform	100	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND
TRPH	5	12	ND	ND	ND	34	ND	3	1	ND	ND	1	ND	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Note: ND = not detected.

Groundwater Sampling Results
February 25, 1992 Sampling Event

Contamination Assessment Report
Site 648N, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW3 duplicate	MW4	MW5D	MW8	MW9	Lab blank
1,1,2-Trichloro-1,2,2-trifluoroethane	2,600	110	16	21	2,200	180	9	7	12
Unknown alkane	540	ND	ND	ND	ND	ND	ND	ND	ND
1-octane	ND	ND	ND	ND	ND	15	ND	ND	ND
2,5-Dimethyl octane	490	ND	ND	ND	ND	ND	ND	ND	ND
3,3-Dimethyl octane	ND	ND	ND	ND	780	ND	ND	ND	ND
3,5-Dimethyl-octane	90	ND	ND	ND	ND	ND	ND	ND	ND
Nonane	390	ND	ND	ND	ND	ND	ND	ND	ND
2-Methyl-nonane	ND	ND	ND	ND	44	ND	ND	ND	ND
5-Butyl nonane	270	ND	ND	ND	ND	ND	ND	ND	ND
Decane	840	ND	ND	ND	1,800	ND	ND	ND	ND
2-Methyl-decane	ND	ND	ND	ND	120	ND	ND	ND	ND
2-Methyl-undecane	66	ND	ND	ND	ND	ND	ND	ND	ND
3-Methyl-decane	78	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl-decane	74	ND	ND	ND	ND	ND	ND	ND	ND
5-Methyl-decane	99	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethyl-decane	120	ND	ND	ND	ND	ND	ND	ND	ND
2-Ethyl-1-decanol	ND	ND	ND	ND	1,100	ND	ND	ND	ND
1-Tridecanol	ND	ND	ND	ND	1,000	ND	ND	ND	ND
1-Iodo tetradecane	1,400	ND	ND	ND	ND	ND	ND	ND	ND
Dodecane	1,200	ND	ND	ND	2,100	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
February 25, 1992 Sampling Event

Contamination Assessment Report
Site 648N, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW3 duplicate	MW4	MW5D	MW6	Equipment blank	Trip blank	Lab blank
1-Ethyl-2-Methyl benzene	ND	ND	650	38	300	ND	ND	ND
1-Ethyl-3-methyl benzene	ND	ND	930	13	ND	ND	ND	ND
1-Ethyl-4-methyl benzene	ND	ND	590	18	180	ND	ND	ND
1,Ethyl-2,3-dimethyl benzene	ND	ND	ND	ND	35	ND	ND	ND
1-Ethyl-2,4-dimethyl benzene	ND	ND	ND	12	ND	ND	ND	ND
1-Ethyl-3,5-dimethyl benzene	ND	ND	ND	8	41	ND	ND	ND
2-Ethyl-1,4-dimethyl benzene	ND	ND	ND	ND	39	ND	ND	ND
1,3-Dimethyl-5-(1-methylethyl)benzene	240	ND	ND	ND	ND	ND	ND	ND
1,3-diethyl-5-methyl-benzene	73	ND	ND	ND	ND	ND	ND	ND
4-Ethyl-1,2-dimethyl benzene	ND	ND	ND	ND	150	ND	ND	ND
2-Ethyl-1,4-dimethyl benzene	ND	ND	ND	ND	180	ND	ND	ND
1-Methylethyl-benzene	ND	ND	89	17	ND	ND	ND	ND
Methyl(1-methylethyl)benzene	230	ND	ND	21	220	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
February 25, 1992 Sampling Event

Contamination Assessment Report
Site 648N, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW3 duplicate	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Equipment blank	Trip blank	Lab blank
1-Methyl-3-(1-methylethyl)-benzene	320	ND	ND	ND	ND	16	320	ND	ND	ND	ND	ND	ND	ND
1-Methyl-4-(1-methylethyl)-benzene	ND	ND	ND	ND	68	ND	51	ND	ND	ND	ND	ND	ND	ND
1-Methyl-2-(1-methylethyl)-benzene	ND	ND	ND	580	ND	63	ND	ND	ND	ND	ND	ND	ND	ND
1-Methylpropyl benzene	ND	ND	ND	ND	ND	ND	32	ND	ND	ND	ND	ND	ND	ND
1-Methyl-2-propyl-benzene	ND	ND	ND	ND	72	7	ND	ND	ND	ND	ND	ND	ND	ND
1-Methyl-3-propyl-benzene	89	ND	ND	ND	ND	15	270	ND	ND	ND	ND	ND	ND	ND
1-Methyl-4-propyl-benzene	ND	ND	ND	ND	52	ND	180	ND	ND	ND	ND	ND	ND	ND
1,2-Dimethyl-benzene	ND	ND	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trimethyl benzene	ND	ND	ND	ND	ND	ND	54	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethyl benzene	ND	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethyl benzene	ND	ND	ND	ND	ND	18	330	ND	ND	ND	ND	ND	ND	ND
1,2,4,5-Tetramethyl benzene	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND
3,6-pyridazinedione, 1,2-diydro	ND	ND	ND	9	ND	ND	ND	ND	12	ND	ND	ND	ND	ND
Phenol,4-fluoro	ND	ND	ND	17	ND	ND	ND	ND	18	44	ND	ND	ND	ND
Isopropanol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	ND	ND	ND
Octanal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
Nonanal	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
Triazine, diamine,-methoxy-N,N'-bis(1-methylethyl)	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Unknown	ND	ND	ND	35	ND	ND	ND	ND	31	67	19	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Result
March 3, 1992 Sampling Event

Contamination Assessment Report
Site 649N, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentrations	MW1	MW1 duplicate	MW2	MW3	MW4D	MW5	MW6	MW7	MW8	MW9	Lab blank
Methylene chloride	5	2	8	54	420	3	2,100	150	3,400	18	340	1
1,1-Dichloroethane	2,400	2	ND	810	ND	ND	ND	1,400	ND	10	370	3
1,1-Dichloroethene	7	ND	ND	ND	ND	ND	2,100	300	1,700	ND	ND	ND
1,1,1-Trichloroethane	200	15	15	700	6,400	1	15,000	2,700	11,000	48	2,300	ND
1,2-Dichlorobenzene	10	ND	ND	ND	ND	ND	12	ND	33	ND	ND	ND
1,3-Dichlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND
1,4-Dichlorobenzene	75	ND	ND	ND	ND	ND	6	ND	13	ND	ND	ND
1,2,4-Trichlorobenzene	140	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND
Dimethyl phthalate	70,000	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium	50	ND	ND	ND	ND	ND	3,000	ND	2,000	ND	ND	ND
Chloroform	100	ND	ND	ND	ND	2	ND	ND	ND	ND	ND	ND
Lead	50	ND	ND	16	7	ND	ND	12	ND	ND	42	ND
TRPH	5	4	10	1	1	ND	ND	ND	ND	ND	4	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 3, 1992

Contamination Assessment Report
Site 649N, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW1	MW1 duplicate	MW2	MW3	MW4D	MW8	MW9
2,3-dimethyl pentane	ND	ND	2,100	ND	ND	ND	ND
2,2,3-trimethyl pentane	ND	ND	1,100	ND	ND	ND	ND
2,2,4-trimethyl pentane	ND	ND	ND	10	ND	ND	ND
2,3,3-trimethyl pentane	28	ND	ND	ND	ND	ND	ND
2,3,4-trimethyl pentane	ND	ND	790	ND	ND	ND	440
2,5-dimethyl hexane	ND	ND	610	ND	ND	ND	ND
2,2,4-trimethyl hexane	ND	ND	ND	9	ND	ND	ND
2,2,5-trimethyl hexane	ND	14	700	8	ND	ND	ND
2,2,5,5-tetramethyl hexane	24	ND	ND	ND	ND	ND	360
Methyl cyclohexane	ND	13	ND	ND	ND	ND	1,100
Cis-1,3-dimethyl cyclohexane	ND	ND	ND	ND	ND	ND	310
3-methylpentyl cyclohexane	ND	ND	ND	ND	ND	ND	310
Cyclohexane, substituted	ND	ND	110	ND	ND	ND	ND
2,3-dimethyl-2-hexene	18	ND	ND	ND	ND	ND	ND
3-methyl heptane	ND	ND	300	ND	ND	ND	ND
2,2,4-trimethyl heptane	ND	ND	150	ND	ND	ND	ND
3-methyl octane	ND	ND	1,600	ND	ND	ND	ND
4-methyl octane	20	ND	ND	ND	ND	ND	ND
2,2,6-trimethyl octane	ND	ND	ND	11	ND	ND	ND
2,3,7-trimethyl octane	9	ND	ND	ND	ND	ND	ND
5-methyl nonane	ND	ND	190	ND	ND	ND	ND
2-methyl decane	20	ND	ND	ND	ND	ND	ND
2,2,8-trimethyl decane	ND	ND	ND	17	ND	ND	ND
7-methyl heptadecane	18	ND	ND	ND	ND	ND	ND
3-methyl undecane	7	ND	ND	ND	ND	ND	ND
5-methyl undecane	18	ND	ND	ND	ND	ND	ND
2,6-diemthyl undecane	11	16	ND	ND	ND	ND	ND
4,5-dimethyl undecane	ND	ND	ND	ND	ND	ND	650
10-methyl-1-undecene	ND	ND	ND	ND	ND	ND	170
Dodecane	63	52	ND	ND	ND	ND	ND
2,5-dimethyl dodecane	ND	15	ND	ND	ND	ND	ND
Tridecane	37	ND	ND	ND	ND	ND	ND
Tetradecane	34	ND	ND	ND	ND	ND	ND
Pentadecane	27	11	ND	ND	ND	ND	ND
Heptadecane	15	ND	ND	ND	ND	ND	ND
7-methyl heptadecane	ND	13	ND	ND	ND	ND	ND
9-methyl nonadecane	17	ND	ND	ND	ND	ND	ND
Unknown alkane	17	16	ND	ND	ND	ND	ND
1-ethyl-4-methyl benzene	ND	ND	ND	7	7	ND	ND
1-ethyl-3,5-dimethyl benzene	10	ND	ND	ND	ND	ND	ND
Pentacosane	35	ND	ND	ND	ND	ND	ND
2-butenylhydrazone acetaldehyde	ND	11	ND	ND	ND	ND	ND
Cyclohexanone	ND	ND	ND	9	ND	ND	ND
1,1,2-trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	8	440	1,000
Unknown	ND	25	ND	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
March 3, 1992 Sampling Event

Contamination Assessment Report
Site 649W, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D	Equipment blank	Trip blank	Lab blank
Benzene	1	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene		2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total VOA	50	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	7	ND	ND	ND	ND	ND	28	ND	ND	ND	ND
1,1-Dichloroethane	2,400	ND	ND	ND	83	83	28	ND	ND	ND	ND
Methylene chloride	5	9	120	44	110	ND	110	4	5	2	1
1,1,1-Trichloroethane	200	3	360	79	830	940	1,000	ND	ND	ND	ND
bis(2-Ehtylhexyl)phthalate	NL	ND	50	ND	ND	ND	14	ND	ND	NA	ND
Chloroform	100	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
Cadmium	10	14	ND	ND	ND	ND	ND	ND	ND	NA	ND
TRPH	5	ND	2	ND	12	13	11	ND	ND	NA	ND

Concentrations in ppb, except TRPH, which is in ppm.

Duplicate sample was collected from monitoring well MW4.

Note: ND = not detected.
NL = not listed.
VOA = volatile organic aromatics.
NA = not analyzed.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 3, 1992 Sampling Event

Contamination Assessment Report
Site 649W, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D
1,1,2-Trichloro-1,2,2-trifluoro ethane	ND	75	15	25	ND	ND	ND
2-Methyl butane	3	ND	ND	ND	ND	ND	ND
2,3-Dimethyl pentane	25	ND	ND	ND	ND	ND	ND
2,4-Dimethyl pentane	4	ND	ND	ND	ND	ND	ND
2,3,3-Trimethyl pentane	8	ND	ND	ND	ND	ND	ND
2,3,4-Trimethyl pentane	3	ND	ND	ND	ND	ND	ND
2-Methyl-1-pentene	2	ND	ND	ND	ND	ND	ND
Undecyl-cyclohexane	ND	ND	ND	ND	ND	130	ND
Octyl-cyclohexane	ND	ND	ND	39	ND	160	ND
3,5-Dimethyl octane	ND	ND	ND	ND	ND	140	ND
4-Ethyl-octane	ND	ND	ND	ND	160	320	ND
2,3,6-Trimethyl octane	ND	ND	ND	73	ND	ND	ND
2,3,7-Trimethyl octane	ND	ND	ND	ND	ND	ND	6
2,3-Dimethyl nonane	ND	ND	ND	ND	ND	84	ND
2,6-Dimethyl nonane	ND	ND	ND	47	ND	130	ND
2-Methyl decane	ND	ND	ND	37	ND	ND	ND
3-Methyl decane	ND	ND	ND	ND	67	ND	ND
4-Methyl decane	ND	ND	ND	ND	300	ND	ND
2,6,8-Trimethyl decane	ND	ND	ND	58	ND	ND	ND
Methylcyclodecane	ND	12	ND	ND	ND	ND	ND
Undecane	ND	ND	ND	ND	ND	ND	7
3-Methyl undecane	ND	ND	ND	ND	120	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
March 3, 1992 Sampling Event

Contamination Assessment Report
Site 649W, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D
2,5-Dimethyl undecane	ND	ND	ND	ND	160	ND	ND
2,6-Dimethyl undecane	ND	ND	ND	ND	ND	100	ND
4,6-Dimethyl undecane	ND	ND	ND	ND	460	ND	ND
Dodecane	ND	130	ND	ND	700	150	2
4,6-Dimethyl dodecane	ND	ND	ND	ND	150	ND	ND
2,7,10-Trimethyl dodecane	ND	ND	ND	46	ND	ND	ND
Tetradecane	ND	14	ND	190	ND	530	11
Pentadecane	ND	ND	ND	130	ND	ND	12
Heptadecane	ND	ND	ND	73	83	110	5
1-Ethyl-2-methyl benzene	ND	ND	20	ND	ND	ND	ND
1-Ethyl-3-methyl benzene	ND	ND	10	ND	ND	ND	ND
1-Ethyl-4-methyl benzene	ND	ND	10	ND	ND	ND	ND
2-Ethyl-1,4-dimethyl benzene	ND	ND	39	ND	ND	ND	ND
1-Ethyl-3,5-dimethyl benzene	ND	ND	5	ND	ND	ND	ND
1,2-Diethyl benzene	ND	ND	10	ND	ND	ND	ND
1,2,3-Trimethyl benzene	ND	ND	7	ND	ND	ND	ND
(2-Chloro-2-buteryl)-benzene	ND	ND	11	ND	ND	ND	ND
Unknown substituted benzene	1	ND	ND	ND	ND	ND	ND
Unknown alkanes	ND	430	ND	1,100	3,000	450	5
2,3-Dihydro-5-methyl-1H-indene	ND	ND	10	ND	ND	ND	ND
Decahydro-trans-naphthalene	ND	8	ND	43	80	100	3
N-(4-aminophenyl)-acetamide	ND	43	28	ND	ND	ND	ND
Tetracosane	ND	ND	ND	ND	ND	ND	6
(3) Unknowns	ND	56	ND	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
March 5, 1992 Sampling Event

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 dupli-cate	MW8	MW8 dupli-cate	MW9	MW10	MW11	Equip-ment blank	Trip blank	Lab blank
Xylene		ND	36	ND	130	ND	ND	ND	ND	170	250	52	320	30	ND	ND	ND
Toluene		ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	ND	ND	ND	ND
Ethyl benzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	38	ND	ND	ND	ND
Total VOA	50	ND	39	ND	130	ND	ND	ND	ND	170	271	52	394	30	ND	ND	ND
Methylene chloride	5	3	6	60	140	16	3	9	ND	54	ND	47	52	15	ND	ND	ND
Tetrachloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	29	ND	ND	ND	ND
Chloromethane	3,800	ND	ND	ND	520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	6,300	4	79	ND	ND	ND	ND	ND	ND	92	190	260	75	55	ND	ND	ND
1,1-Dichloroethane	2,400	12	54	400	130	130	ND	120	100	90	82	93	250	120	ND	ND	ND
1,2-Dichloroethene (total)	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	46	ND	ND	ND	ND
Trichloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82	ND	ND	ND	ND
1-Methylnaphthalene		ND	6	ND	ND	ND	ND	ND	ND	12	10	ND	11	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	12	11	ND	12	ND	ND	ND	ND
Napthalene		ND	ND	ND	21	ND	ND	ND	ND	120	74	10	64	7	ND	ND	ND
Total napthalenes	100	ND	6	ND	21	ND	ND	ND	ND	144	95	10	87	ND	ND	ND	ND
1,2,4-Trichloroben-zene	140	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	50	ND	11	ND	ND	ND	ND	ND	ND	12	10	ND	ND	ND	ND	ND	ND
TRPH	5	10	16	ND	3	ND	ND	ND	ND	5	8	97	23	ND	ND	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
Decane	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND
Decane, 2-methyl	560	170	ND	ND	ND	56	ND	ND	ND	140	ND	89	ND
Decane, 3,8-dimethyl	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Decane,5-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND
Tridecane	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,5,24-Trimethyl tetracontane	ND	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl-cyclohexane	ND	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Butyl-1,3,5,7-cyclooctatraene	ND	ND	ND	150	5	ND	ND	ND	ND	ND	ND	ND	ND
Undecane, 4,6-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61	ND	ND
Pentadecane, 2,6,10,14-tetramethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53	ND	ND
3-Dimethylamino-N-(3-nitrophenyl)-prop-2-en-1-imine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66	ND	ND
1-Methyl-3-propyl benzene	ND	1,600	ND	ND	ND	ND	ND	ND	140	150	ND	ND	ND
1-Methyl-3-(1-methylethyl) benzene	ND	1,500	ND	ND	ND	ND	ND	ND	98	99	ND	220	ND
Methyl (1-methylethyl) benzene	ND	1,200	ND	ND	ND	ND	ND	ND	170	120	ND	ND	ND
Benzene,1-ethyl-2-methyl	ND	110	ND	31	ND	ND	ND	ND	ND	ND	12	ND	19
Benzene,1-ethyl-3-methyl	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	ND
Benzene,1-ethyl-4-methyl	ND	ND	ND	45	ND	ND	ND	ND	170	130	ND	71	25
Benzene, 1-ethyl,3,5-dimethyl	ND	ND	ND	71	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,2-dimethyl	ND	ND	ND	24	ND	ND	ND	ND	94	56	ND	29	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 duplicate	MW8	MW8 duplicate	MW9	MW10	MW11
1-Ethyl-2-methyl benzene	24	ND	45	140	18	ND	8	8	310	350	62	350	490
1-Ethyl-4-methyl benzene	16	ND	29	87	ND	ND	20	18	150	160	89	250	ND
1-Ethyl-3-methyl benzene	96	810	55	220	10	ND	ND	ND	500	630	70	980	ND
1-Ethyl-3-methyl cyclopentane	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Ethyl-4-methyl hexane	ND	ND	ND	79	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nonane	22	1,000	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	640
2,5-Dimethyl octane	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	890
Unknown alkane	68	3,500	ND	270	ND	19	ND	ND	100	ND	230	1,600	2,500
Unknowns	ND	130	5	49	63	ND	ND	ND	ND	ND	130	ND	ND
1,2,4-Trimethyl benzene	23	1,900	5	170	8	ND	ND	ND	170	220	32	45	11
2,6,7-Trimethyl decane	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl decane	23	1,500	ND	120	ND	ND	ND	ND	ND	ND	ND	380	530
Dodecane	1,600	ND	ND	ND	ND	18	ND	11	ND	53	94	1,700	1,500
Dodecane, 4,6-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND
Heptane, 3,4-dimethyl	480	79	ND	ND	ND	ND	ND	ND	ND	68	ND	ND	ND
Heptane, 2,6-dimethyl	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND
Octane,2,3,7-trimethyl	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane,2,7-dimethyl	450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane, 2,6-dimethyl	ND	250	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND
Nonane, 2-methyl	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
Octane, 4-ethyl	ND	ND	ND	ND	ND	74	ND	ND	ND	ND	ND	ND	ND
Nonane, 3-methyl	500	69	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND
Octane,4-methyl	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nonane, 2,6-dimethyl	710	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND
Nonane, 3,7-dimethyl	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND
Naphthalene,decahydro	590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene,decahydro-,trans	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
Decahydro-2-methyl naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	ND	ND

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 duplicate	MW8	MW8 duplicate	MW9	MW10	MW11
Benzene, 1,3-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
Benzene, (1-Methylethyl)	ND	73	ND	ND	ND	ND	ND	ND	220	300	93	500	ND
Benzene, 1-methyl-2-(1-methylethyl)	ND	ND	ND	ND	ND	ND	ND	ND	110	ND	ND	ND	ND
Benzene,1-methyl-4-(1-methylethyl)	ND	110	ND	ND	ND	ND	ND	ND	73	ND	ND	35	ND
Benzene, 1-methyl-2-propyl	ND	100	ND	ND	ND	ND	ND	ND	ND	94	ND	ND	ND
Benzene, 1-methyl-3-propyl	ND	ND	ND	ND	ND	ND	ND	ND	100	150	ND	ND	ND
Benzene, 1,2,3-trimethyl	ND	ND	ND	41	ND	ND	ND	ND	ND	180	ND	130	27
Benzene, 1,3,5-trimethyl	ND	ND	ND	67	ND	ND	ND	ND	ND	ND	ND	330	ND
Benzene,(1-methypropyl)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68	ND
Benzene, 2-ethyl-1,4-dimethyl	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	35	ND
Benzofuran	ND	ND	ND	ND	ND	ND	ND	ND	45	ND	ND	ND	ND
Substituted benzene	ND	ND	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND
Diethyl benzene	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND	ND
Propyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	40	79	ND	35	ND
1-Methyl-2-(1-methylethyl) benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	180	ND	ND	ND
Ethyl ether	ND	ND	52	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloro-1,1,2-trifluoroethane	ND	ND	180	ND	60	ND	51	50	190	ND	ND	ND	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND
1,2-Diethoxy ethane	ND	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND
4-Hydroxypyridine	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 duplicate	MW8	MW8 duplicate	MW9	MW10	MW11
Benzoyl choloride, 4-methyl	ND	ND	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Tridecanol	ND	ND	ND	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ortho-D2-benzylcyanide	ND	ND	ND	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyridine, 5-ethenyl-2-methyl	ND	ND	ND	45	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenol,3-ethyl	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
5-Methoxy-1-Aza-6-oxabicyclo (3.1.0) Hexane	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
2-Propanol	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND	ND
1-Methyl-3-pentyl cyclohexane	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
(1-Methyl propyl) cyclohexane	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
(Cyclopentylmethyl) cyclohexane	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	ND
4-Methyl nonane	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND
Octahydro-4,7-methano-1H-inden-1-ol	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
3,3-Dimethyl octane	ND	ND	ND	ND	ND	5	ND	5	ND	ND	ND	ND	ND
Cyclopropane, 1-methyl-2-(3-methylethyl)	ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND
1H-indene, 2,3-dihydro	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	16	ND	ND
3,6-Dimethyl undecane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55	ND	ND
3,6-Dimethyl octane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
2,3,5-Trimethyl hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
3-Methyl nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280
Pulegone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND
3-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53
4-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ND	ND	ND
4-Cyclohexyl undecane 4-cyclohexyl	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND

Concentrations in ppb.

Note: ND = not detected.

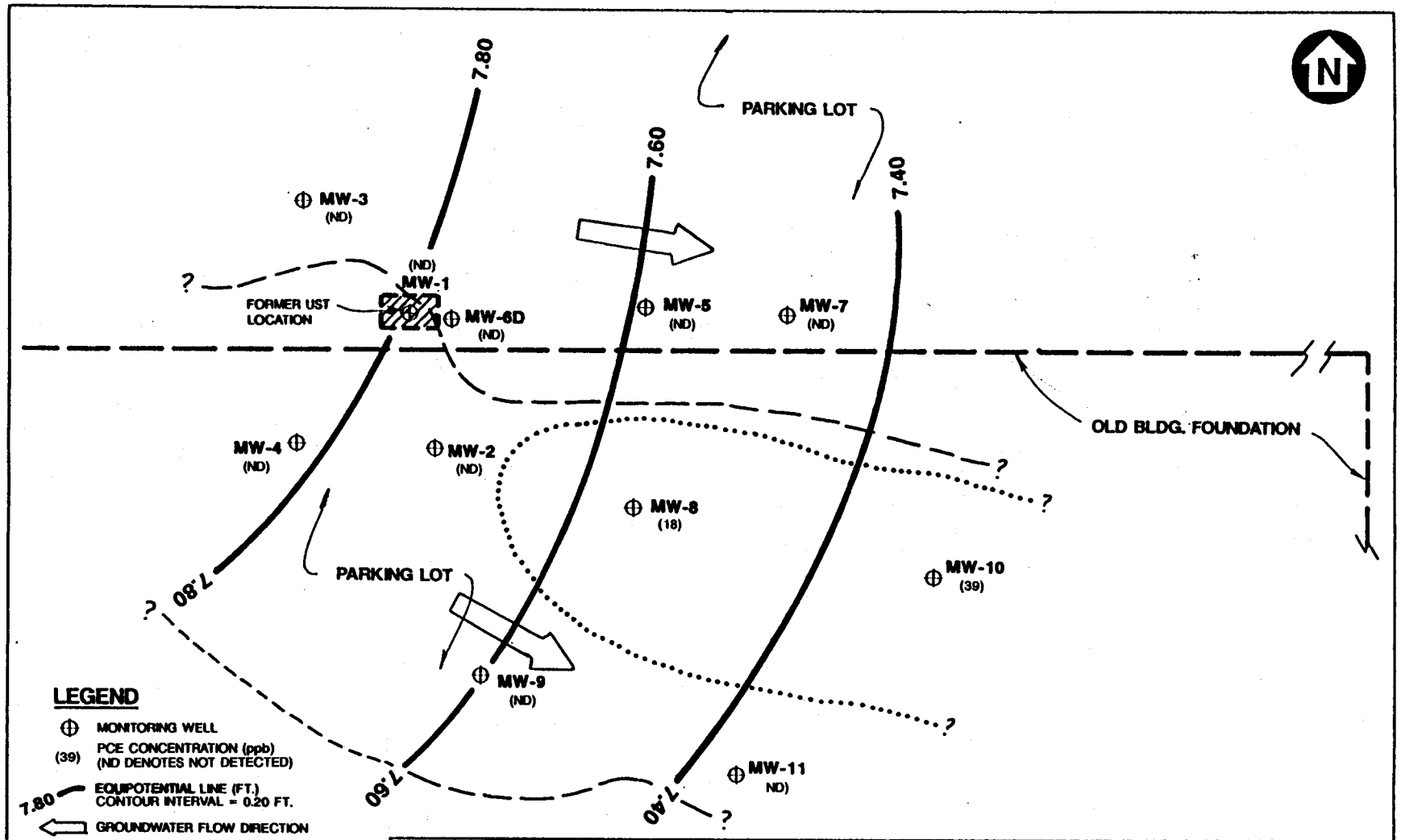


FIGURE
PCE CONCENTRATION MAP
3/5/92

CONTAMINATION
ASSESSMENT REPORT
SITE 709D-N
NADEP PENSACOLA
PENSACOLA, FLORIDA

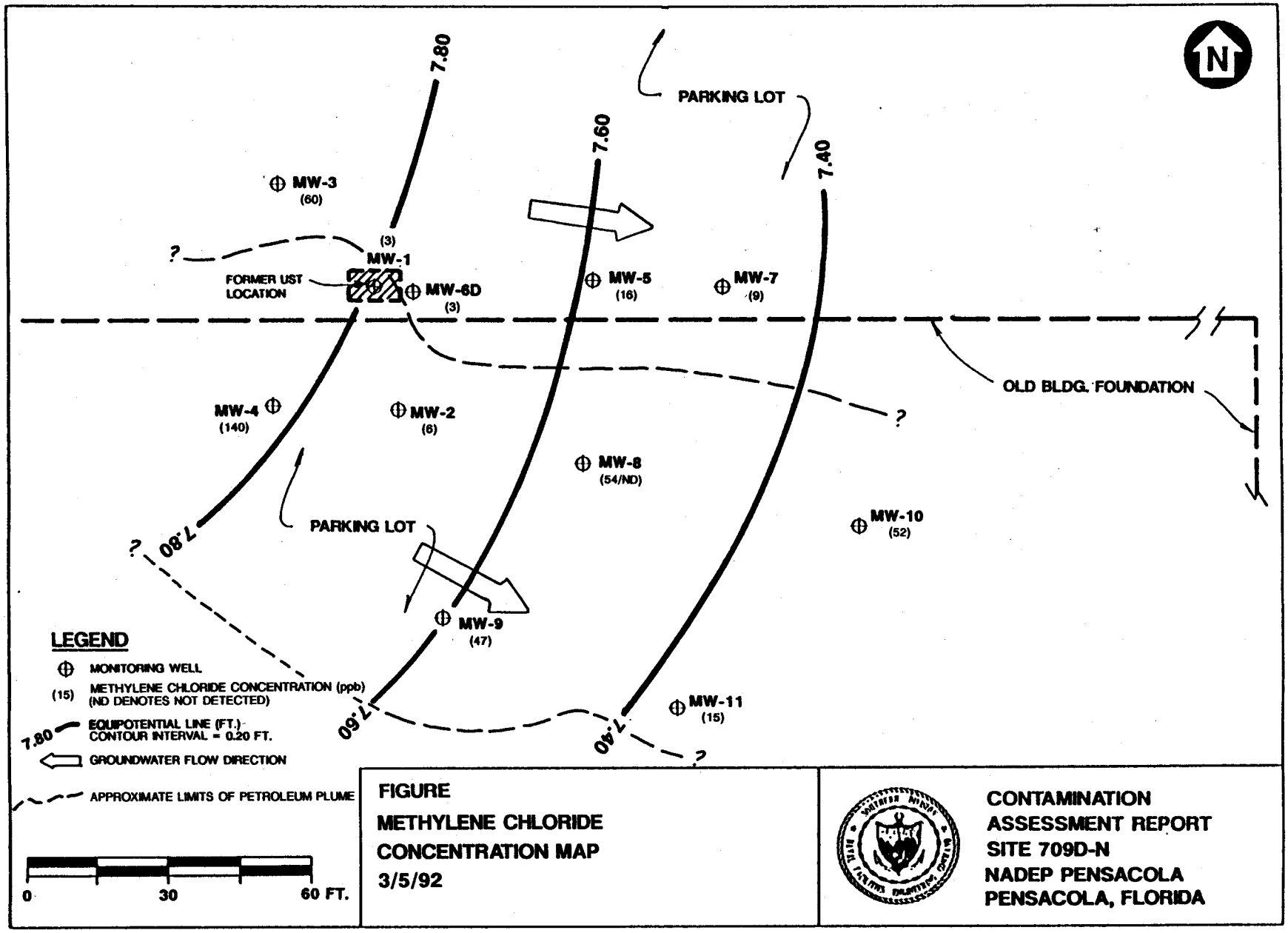


FIGURE
METHYLENE CHLORIDE
CONCENTRATION MAP
3/5/92

CONTAMINATION
ASSESSMENT REPORT
SITE 709D-N
NADEP PENSACOLA
PENSACOLA, FLORIDA

Groundwater Sampling Results
April 14, 1992 Sampling Event

Contamination Assessment Report
Site 3220E, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2D	MW3	MW4	MW5	MW6	MW7	MW7 Duplicate	Equipment Blank	Trip Blank	Lab Blank
Chloroform	100	ND	ND	1	2	ND	2	ND	ND	ND	ND	ND
1,1-Dichloroethane	2,400	31	30	2	160	5	34	4	4	ND	ND	ND
1,1-Dichloroethene	7	7	17	ND	58	3	17	1	ND	ND	ND	ND
Methylene chloride	5	ND	5	ND	ND	ND	138	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	1	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	3	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	14	ND	ND	120	3	19	1	1	ND	ND	ND
Trichlorofluoromethane	2,400	39	42	2	48	6	74	ND	ND	ND	ND	ND
Lead	50	15	31	14	30	32	ND	20	19	ND	NA	NA
TRPH	5	6	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

Concentrations in ppb, except TRPH, which is in ppm.

Lead analyzed as unfiltered, except sample from MW6, which was filtered.

Notes: ND = not detected.
NA = not analyzed.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
February 28, 1992 Sampling Event

Contamination Assessment Report
Site 3220S, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6	MW7	MW8	MW9D	Equip-ment blank	Trip blank	Lab blank
Methylene chloride	5	ND	ND	ND	ND	ND	150	ND	ND	ND	1	ND	ND	ND
Chloroform	100	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
1,1-Dichloroethane	2,400	170	ND	300	ND	ND	86	ND	ND	330	7	ND	ND	ND
1,1-Dichloroethene	7	400	290	290	280	790	340	500	480	850	7	ND	ND	ND
Chlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
1,1,1-Trichloroethane	200	1,700	1,300	1,200	1,300	3,000	1,200	2,000	1,900	3,100	3	ND	ND	ND
Trichloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND
Tetrachlorethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	ND
1,2-Dichlorobenzene	10	ND	10	19	ND	10	10	31	9	13	20	ND	ND	ND
1,3-Dichlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
1,4-Dichlorobenzene	75	ND	5	6	ND	ND	5	9	ND	ND	4	ND	ND	ND
Acetone	700	ND	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND	ND
Naphthalene	100	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	ND	ND
TRPH	5	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
February 28, 1992 Samping Event

Contamination Assessment Report
Site 3220S, Naval Aviation Depot
Pensacola, Florida

Tentatively identified compounds (estimated values)	MW3	MW5	MW6	MW8
1-Methylethyl benzene	ND	ND	17	ND
(1-Methylpropyl)-benzene	5	ND	ND	ND
1-Ethyl-2-methyl-benzene	15	ND	11	30
1-Ethyl-3-methyl-benzene	140	140	ND	ND
1-Ethyl-4-methyl-benzene	100	46	11	41
1-Ethyl-3,5-dimethyl-benzene	ND	ND	5	21
1-Ethyl-2,3-dimethyl-benzene	ND	ND	7	ND
1,2,3-Trimethyl-benzene	26	ND	ND	57
1,2,4-Trimethyl-benzene	14	ND	ND	ND
1,3,5-Trimethyl-benzene	ND	ND	16	66
1-Methyl-3-propyl benzene	ND	ND	6	ND
1-Methyl-4-propyl benzene	ND	ND	5	22
1-Methyl-2-(1-methylethyl)-benzene	ND	ND	ND	27
1-Methyl-3-(1-methylethyl)-benzene	ND	ND	ND	19
1-Methyl-4-(1-methylethyl)-benzene	ND	ND	5	33
Alpha-methyl-benzeneacetaldehyde	ND	ND	ND	29
1-(1,1-Dimethylethyl)4-methyl-benzene	ND	ND	ND	ND
1-Dodecane	8	ND	ND	ND

Concentrations in ppb.

Notes: ND = not detected.
NA = not analyzed.

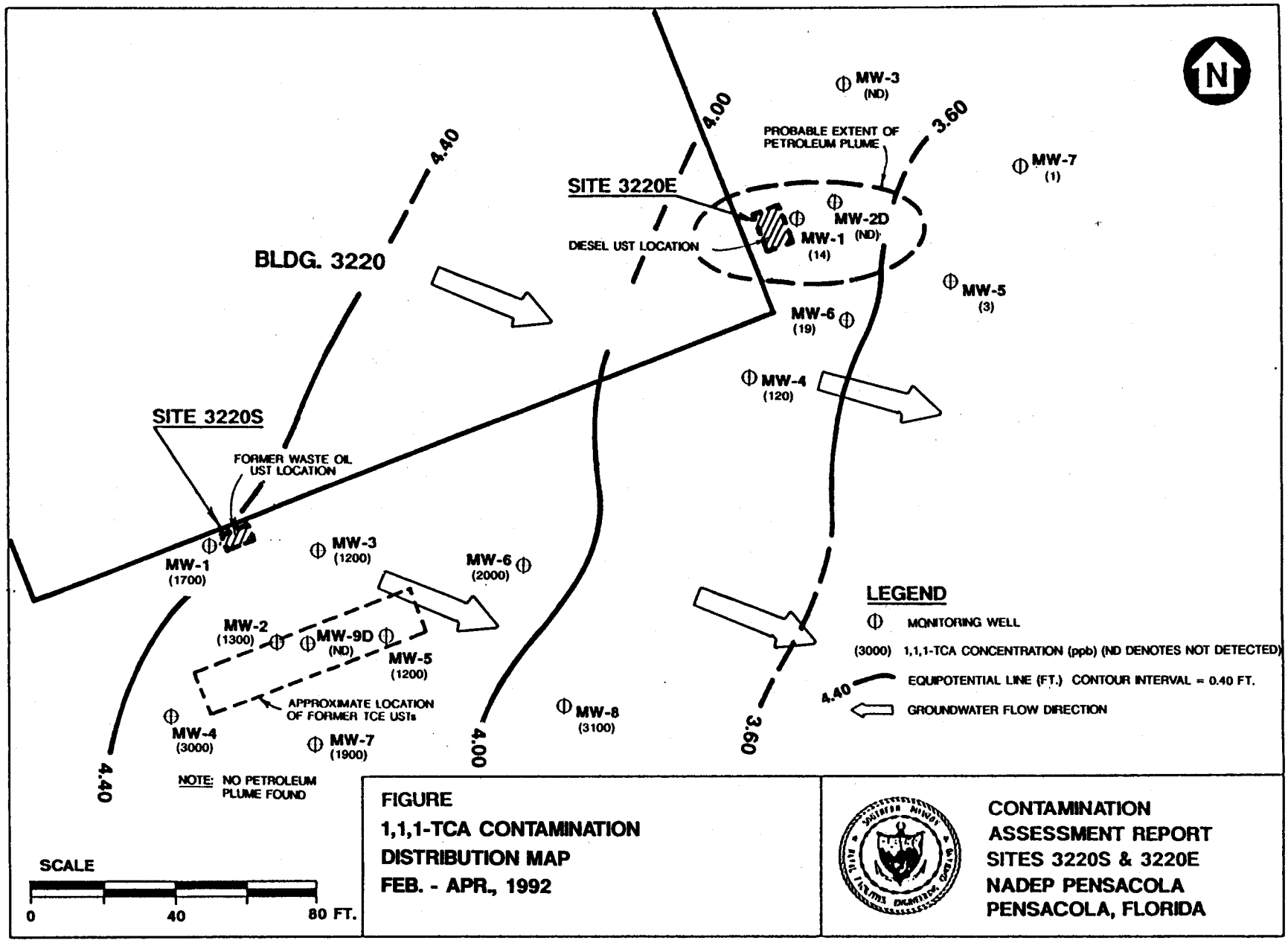


FIGURE
1,1,1-TCA CONTAMINATION
DISTRIBUTION MAP
FEB. - APR., 1992

CONTAMINATION
ASSESSMENT REPORT
SITES 3220S & 3220E
NADEP PENSACOLA
PENSACOLA, FLORIDA

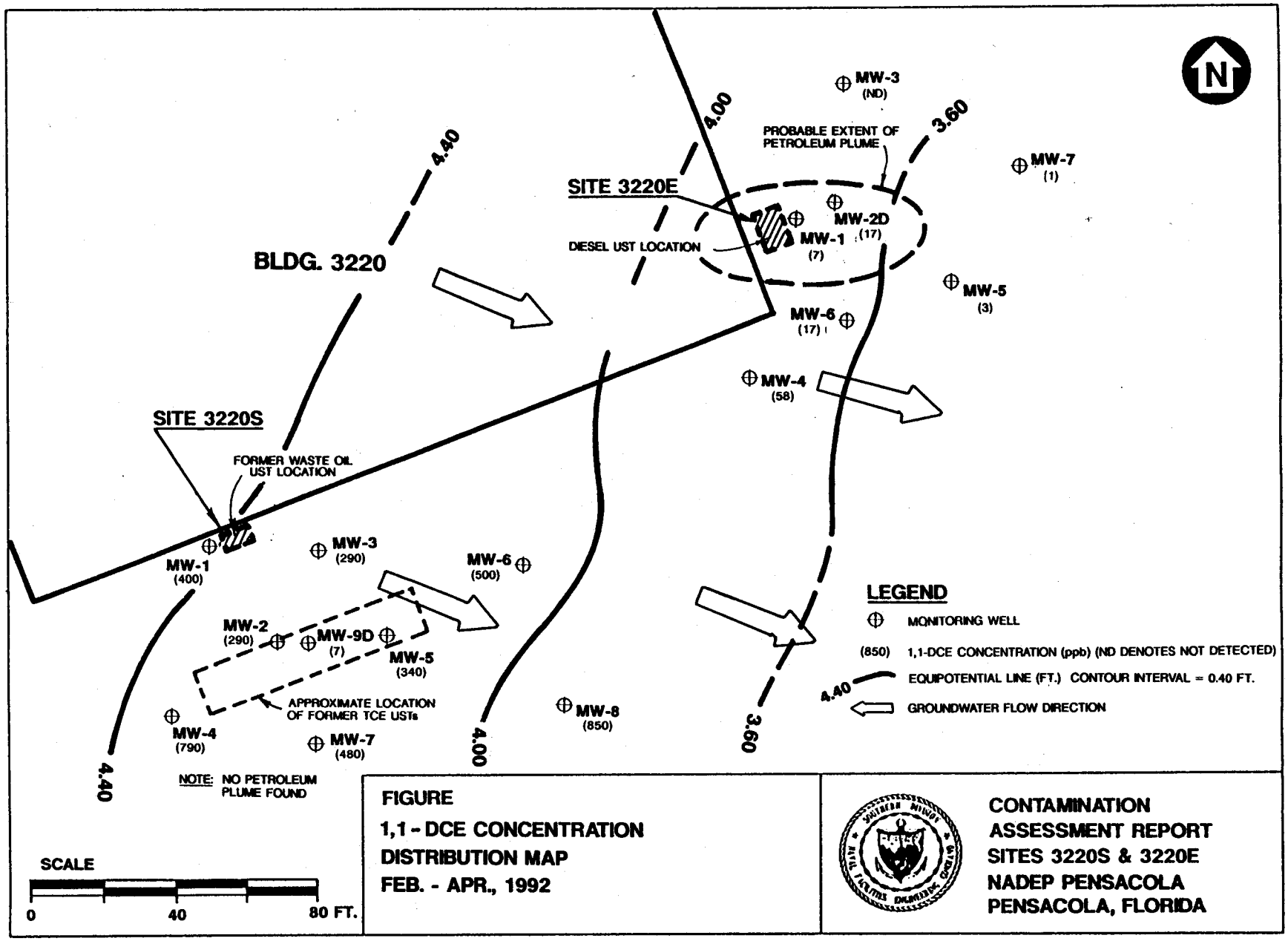


FIGURE
1,1 - DCE CONCENTRATION DISTRIBUTION MAP
FEB. - APR., 1992

CONTAMINATION ASSESSMENT REPORT
SITES 3220S & 3220E
NADEP PENSACOLA
PENSACOLA, FLORIDA

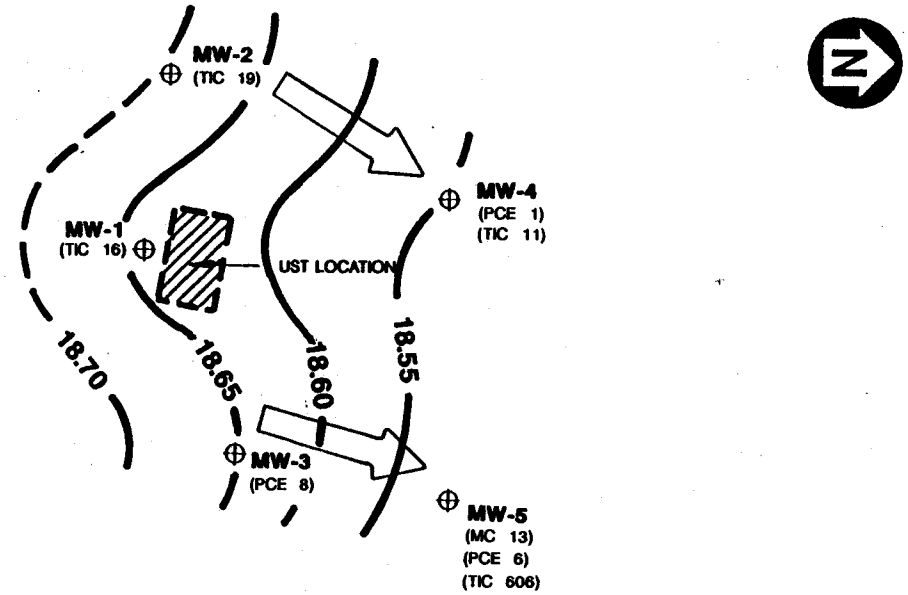
Groundwater Sampling Results
April 15, 1992

Contamination Assessment Report
Site 3221SW, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW1 Duplicate	MW2	MW3	MW4	MW5	Equipment Blank	Trip Blank	Lab Blank
Chloroform	100	ND	ND	ND	1	ND	ND	ND	ND	ND
Methylene chloride	5	ND	ND	ND	ND	ND	13	ND	ND	1
Tetrachloroethene	3	ND	ND	ND	8	1	6	ND	ND	ND
Lead	50	ND	6	ND	ND	ND	ND	ND	NA	ND
Tentatively identified compounds and their estimated concentrations										
Butylcyclobutane		16	19	ND	ND	11	ND			
1-Methylethyl benzene		ND	ND	ND	ND	ND	9			
1,2-Diethyl benzene		ND	ND	ND	ND	ND	37			
1,3-Diethyl benzene		ND	ND	ND	ND	ND	21			
1,4-Diethyl benzene		ND	ND	ND	ND	ND	13			
1-Methyl-3-(1-methylethyl benzene)		ND	ND	ND	ND	ND	77			
1-Methyl-4-(1-methylethyl benzene)		ND	ND	ND	ND	ND	66			
1-Ethyl-2,3-dimethyl benzene		ND	ND	ND	ND	ND	28			
1-Ethyl-3,5-dimethyl benzene		ND	ND	ND	ND	ND	18			
2-Ethyl-1,4-dimethyl benzene		ND	ND	ND	ND	ND	29			
4-Ethyl-1,2-dimethyl benzene		ND	ND	ND	ND	ND	57			
1,3,5-Trimethyl benzene		ND	ND	ND	ND	ND	150			
1,2,3,4-Tetramethyl benzene		ND	ND	ND	ND	ND	35			
1-Octanol		ND	ND	ND	ND	ND	15			
2,3-Dihydro-1-methyl-1H-indene		ND	ND	ND	ND	ND	25			
2,3-Dihydro-4-methyl-1H-indene		ND	ND	ND	ND	ND	13			
1,2,3,4-Tetrahydro naphthalene		ND	ND	ND	ND	ND	8			
1-(4-Methylphenyl) ethanone		ND	ND	ND	ND	ND	19			

Concentrations in ppb.

Note: ND = not detected.
NA = not analyzed.



LEGEND

⊕ MONITORING WELL

18.55 EQUIPOTENTIAL LINE (FT.)
CONTOUR INTERVAL = 0.05 FT.

GROUNDWATER FLOW DIRECTION

(ND) CONTAMINANTS (ppb) (ND DENOTES NOT DETECTED)

SCALE

0 20 40 FT.

BLDG. 3221

FIGURE
GROUNDWATER FLOW AND CONTAMINATION MAP

CONTAMINATION ASSESSMENT REPORT
SITE 3221SW
NADEP PENSACOLA
PENSACOLA, FLORIDA

Groundwater Sampling Results
January 26 and February 5, 1992 Sampling Events

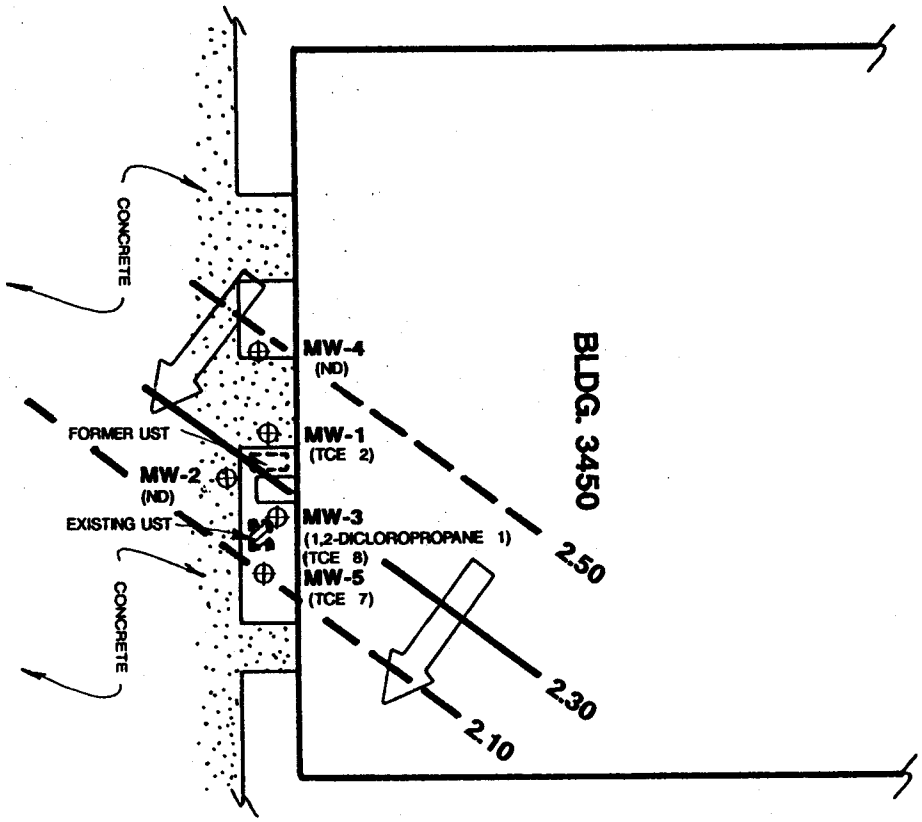
Contamination Assessment Report
Site 3450S, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2	MW3	MW4	MW4 Duplicate	MW5	Equipment Blank 1	Equipment Blank 2	Trip Blank	Lab Blank
1,1-Dichloroethane	2,400	62	ND	110	2	3	79	ND	ND	ND	ND
1,1-Dichloroethene	7	3	ND	1	ND	ND	4	ND	ND	ND	ND
1,2-Dichloroethene (total)	4.2	ND	ND	4	ND	ND	4	ND	ND	ND	ND
1,2-Dichloropropane	1	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	7	ND	2	ND	ND	7	ND	ND	ND	ND
Trichloroethene	3	2	ND	8	ND	ND	7	ND	ND	ND	ND
Trichlorofluoromethane	2,400	ND	ND	36	ND	ND	24	ND	ND	ND	ND
Toluene	50	ND	10	ND	ND	ND	ND	ND	ND	21	ND
MTBE	50	2	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	50	ND	ND	ND	ND	ND	25	ND	ND	ND	ND

Concentrations in ppb.

Duplicate sample was collected from monitoring well MW4.

Note: ND = not detected.
MTBE = methyl tert-butyl ether.



LEGEND

⊕ MONITORING WELL

2.10 EQUIPOTENTIAL LINE (FT.)
CONTOUR INTERVAL = 0.20 FT.

GROUNDWATER FLOW DIRECTION

(TCE 1) CONTAMINATANTS (ppb) (ND DENOTES NOT DETECTED)

SCALE

0 60 120 FT

FIGURE
GROUNDWATER CONTAMINATANTS AT OR EXCEEDING STATE REGULATORY LEVELS

CONTAMINATION ASSESSMENT REPORT
SITE 3450S
NADEP PENSACOLA
PENSACOLA, FLORIDA

Regulatory Level

Table ___
Groundwater Sampling Results
Site 3220S

NADEP Pensacola

Compound		MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6	MW7	MW8	MW9	Equipment blank	Trip blank	Lab blank
Methylene chloride	5	ND	ND	ND	ND	ND	150	ND	ND	ND	1	ND	ND	ND
1,1-Dichloroethane	2400	170	ND	300	ND	ND	86	ND	ND	330	7	ND	ND	ND
1,1-Dichloroethene	7	400	290	290	280	790	340	500	480	850	7	ND	ND	ND
Chlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
1,1,1-Trichloroethane	200	1,700	1,300	1,200	1,300	3,000	1,200	2,000	1,900	3,100	3	ND	ND	ND
Trichloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	ND
Tetrachlorethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	ND
1,2-Dichlorobenzene	10	ND	10	19	ND	10	10	31	9	13	20	ND	ND	ND
1,3-Dichlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND
1,4-Dichlorobenzene	75	ND	5	6	ND	ND	5	9	ND	ND	4	ND	ND	ND
Acetone	700	ND	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND	ND
Naphthalene	100	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND	ND	ND
TRPH	5	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

NADEPGW.TAB
MVL.F05.03.92

Table ___
Groundwater Sampling Results
Site 3220S

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6	MW7	MW8	MW9	Equipment blank	Trip blank	Lab blank
AVGAS	(1-Methylpropyl)-benzene	ND	ND	5	ND	ND	ND	17	ND	ND	ND	ND	NA	ND
PROB FUEL	1-Ethyl-2-methyl-benzene	ND	ND	15	ND	ND	ND	11	ND	30	ND	ND	NA	ND
"	1-Ethyl-3-methyl-benzene	ND	ND	140	ND	ND	140	ND	ND	ND	ND	ND	NA	ND
"	1-Ethyl-4-methyl-benzene	ND	ND	100	ND	ND	46	11	ND	41	ND	ND	NA	ND
"	1-Ethyl-3,5-dimethyl-benzene	ND	ND	ND	ND	ND	ND	5	ND	21	ND	ND	NA	ND
"	1-Ethyl-2,3-dimethyl-benzene	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	NA	ND
DYE INTERMEDIATE	1,2,3-Trimethyl-benzene	ND	ND	26	ND	ND	ND	ND	ND	57	ND	ND	NA	ND
GASOLINE	1,2,4-Trimethyl-benzene	ND	ND	14	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
GASOLINE	1,3,5-Trimethyl-benzene	ND	ND	ND	ND	ND	ND	16	ND	66	ND	ND	NA	ND
CYMENE	1-Methyl-3-propyl benzene	ND	ND	ND	ND	ND	ND	6	ND	ND	ND	ND	NA	ND
CYMENE	1-Methyl-4-propyl benzene	ND	ND	ND	ND	ND	ND	5	ND	22	ND	ND	NA	ND
FUELS	1-Methyl-2-(1-methylethyl)-benzene	ND	ND	ND	ND	ND	ND	ND	ND	27	ND	ND	NA	ND
FUELS	1-Methyl-3-(1-methylethyl)-benzene	ND	ND	ND	ND	ND	ND	ND	ND	19	ND	ND	NA	ND
FUEL	1-Methyl-4-(1-methylethyl)-benzene	ND	ND	ND	ND	ND	ND	5	ND	33	ND	ND	NA	ND
PHARM | PERFUME DYE	Alpha-methyl-benzeneacetaldehyde	ND	ND	ND	ND	ND	ND	ND	ND	29	ND	ND	NA	ND
	(3) Unknown	ND	ND	ND	ND	59	ND	ND	ND	59	ND	ND	NA	ND
FUEL?	1-(1,1-Dimethylethyl)4-methyl -benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND
PROB. FUEL	1-Dodecane	ND	ND	8	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND

Notes: ND = not detected.
NA = not analyzed.

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Table 5-1
Top of Casing and Groundwater Elevations
Site 3220S

NADEP Pensacola

Well Number	February 19, 1992			February 28, 1992		
	TOC	DTW	Groundwater Elevation	TOC	DTW	Groundwater Elevation
MW-1	25.09	20.00	5.09	25.09	20.06	5.03
MW-2	22.74	18.84	3.90	22.74	19.90	2.84
MW-3	24.22	19.29	4.93	24.22	19.35	4.87
MW-4	23.36	18.40	4.96	23.36	18.46	4.90
MW-5	23.10	18.35	4.75	23.10	18.40	4.70
MW-6	23.79	19.16	4.63	23.79	19.22	4.57
MW-7	21.69	16.92	4.77	21.69	17.00	4.69
MW-8	21.79	17.32	4.47	21.79	17.39	4.40
MW-9D	23.45			23.45	18.73	4.72

Notes: TOC = top of casing.
DTW = depth to water.

Table 5-3
Soil Sample Results
February 5 through February 25, 1992
Site 3220S

NADEP Pensacola

Sampled ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	5	ND	ND	ND	ND
SB1/MW1	10	0.5	ND	ND	ND
SB2/MW2	5-7	0.6	ND	25	4.2
SB2/MW2	15-17	ND	ND	2.8	ND
SB3/MW3	5-7	ND	ND	ND	ND
SB3/MW3	15-17	ND	ND	ND	ND
SB4/MW4	5-7	ND	0.7	ND	ND
SB4/MW4	15-17	ND	ND	ND	ND
SB5/MW5	5-7	ND	ND	ND	ND
SB5/MW5	15-17	ND	ND	ND	ND
SB6/MW6	5-7	ND	ND	ND	ND
SB6/MW6	15-17	ND	ND	5.0	ND
SB7/MW7	5-7	ND	ND	ND	ND
SB7/MW7	15-17	ND	ND	ND	ND
SB8/MW8	5-7	ND	ND	ND	ND
SB8/MW8	15-17	ND	ND	ND	ND
Regulatory level		5.0	1.0	5.0	5.0

Note: ND = not detected.

Concentrations in ppm

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Table 5-2
Summary of Soil Sample FID Results
February 5 through February 25, 1992
Site 3220S

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB2/MW2	5-7	0	No odor
	10-12	2	No odor
	15-17	3	No odor
SB3/MW3	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB4/MW4	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB5/MW5	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB6/MW6	5-7	0	No odor
	10-12	1	No odor
	15-17	2	No odor
SB7/MW7	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB8/MW8	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB9/MW9D	No measurements taken		

[1]Corrected for methane.

Note: ppm = parts per million.

Table 5-1
Top of Casing and Groundwater Elevations

Contamination Assessment Report
Site 3220S, Naval Aviation Depot
Pensacola, Florida

Well Number	February 19, 1992			February 28, 1992		
	TOC	DTW	Groundwater Elevation	TOC	DTW	Groundwater Elevation
MW-1	25.09	20.00	5.09	25.09	20.06	5.03
MW-2	22.74	18.84	3.90	22.74	19.90	2.84
MW-3	24.22	19.29	4.93	24.22	19.35	4.87
MW-4	23.36	18.40	4.96	23.36	18.46	4.90
MW-5	23.10	18.35	4.75	23.10	18.40	4.70
MW-6	23.79	19.16	4.63	23.79	19.22	4.57
MW-7	21.69	16.92	4.77	21.69	17.00	4.69
MW-8	21.79	17.32	4.47	21.79	17.39	4.40
MW-9D	23.45			23.45	18.73	4.72

Notes: TOC = top of casing.
DTW = depth to water.

Regulatory Level

Table 5-3
Groundwater Sampling Results
April 14, 1992 Sampling Event
Site 3220E

NADEP Pensacola

Compound		MW1	MW2D	MW3	MW4	MW5	MW6	MW7	MW7 Duplicate	Equipment Blank	Trip Blank	Lab Blank
Chloroform	100	ND	ND	1	2	ND	2	ND	ND	ND	ND	ND
1,1-Dichloroethane	2400	31	30	2	160	5	34	4	4	ND	ND	ND
1,1-Dichloroethene	7	7	17	ND	58	3	17	1	ND	ND	ND	ND
Methylene chloride	5	ND	5	ND	ND	ND	138	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	3	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene	3	ND	ND	ND	1	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	200	14	ND	ND	120	3	19	1	1	ND	ND	ND
Trichlorofluoromethane	2400	39	42	2	48	6	74	ND	ND	ND	ND	ND
Lead	50	15	31	14	30	32	180 ND	20	19	ND	NA	NA
TRPH	5	6	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
NA = not analyzed.
TRPH = total recoverable petroleum hydrocarbons.

ND in filtered sample

NADEPGW.TAB
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Table 5-1
Top of Casing and Groundwater Elevations
Site 3220E

NADEP Pensacola

Well Number	April 14, 1992			March 31, 1992		
	TOC	DTW	Groundwater Elevation	TOC	DTW	Groundwater Elevation
MW-1	25.11	21.07	4.04			
MW-2D	24.68	20.90	3.70			
MW-3	24.95	20.89	4.06			
MW-4	24.54	20.56	3.98			
MW-5	25.39	21.76	3.63			
MW-6	24.68	20.77	3.91			
MW-7	25.91	22.24	3.67			

Notes: TOC = top of casing.
DTW = depth to water.

Table 5-1
Top of Casing and Groundwater Elevations

Contamination Assessment Report
Site 3220E, Naval Aviation Depot
Pensacola, Florida

Well Number	April 14, 1992			March 31, 1992		
	TOC	DTW	Groundwater Elevation	TOC	DTW	Groundwater Elevation
MW-1	25.11	21.07	4.04			
MW-2D	24.68	20.90	3.70			
MW-3	24.95	20.89	4.06			
MW-4	24.54	20.56	3.98			
MW-5	25.39	21.76	3.63			
MW-6	24.68	20.77	3.91			
MW-7	25.91	22.24	3.67			

Notes: TOC = top of casing.
DTW = depth to water.

Table 5-1
Top of Casing and Groundwater Elevations
Site 709D-N

NADEP Pensacola

Well Number	March 5, 1992					
	TOC	DTW	Groundwater Elevation	TOC	DTW	Groundwater Elevation
MW-1	25.79	17.49	7.80			
MW-2	25.87	18.15	7.72			
MW-3	24.99	17.09	7.90			
MW-4	25.92	18.10	7.82			
MW-5	25.61	18.02	7.59			
MW-6D	25.17	17.38	7.79			
MW-7	25.33	17.85	7.48			
MW-8	25.83	18.29	7.54			
MW-9	25.89	18.29	7.60			
MW-10	25.92	18.64	7.28			
MW-11	25.82	18.46	7.36			

Notes: TOC = top of casing.
DTW = depth to water.

Groundwater Sampling Results
March 5, 1992 Sampling Event

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Compound	Regulatory/ guidance concentration	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 dupli-cate	MW8	MW8 dupli-cate	MW9	MW10	MW11	Equip-ment blank	Trip blank	Lab blank
Xylene		ND	36	ND	130	ND	ND	ND	ND	170	250	52	320	30	ND	ND	ND
Toluene		ND	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	36	ND	ND	ND	ND
Ethylbenzene		ND	ND	ND	ND	ND	ND	ND	ND	ND	21	ND	38	ND	ND	ND	ND
Total VOA	50	ND	39	ND	130	ND	ND	ND	ND	170	271	52	394	30	ND	ND	ND
Methylene chloride	5	3	6	60	140	16	3	9	ND	54	ND	47	52	15	ND	ND	ND
Tetrachloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	18	ND	29	ND	ND	ND	ND
Chloromethane	3,800	ND	ND	ND	520	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	6,300	4	79	ND	ND	ND	ND	ND	ND	92	190	260	75	55	ND	ND	ND
1,1-Dichloroethane	2,400	12	54	400	130	130	ND	120	100	90	82	93	250	120	ND	ND	ND
1,2-Dichloroethene (total)	7	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	ND	46	ND	ND	ND	ND
Trichloroethene	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	82	ND	ND	ND	ND
1-Methylnaphthalene		ND	6	ND	ND	ND	ND	ND	ND	12	10	ND	11	ND	ND	ND	ND
2-Methylnaphthalene		ND	ND	ND	ND	ND	ND	ND	ND	12	11	ND	12	ND	ND	ND	ND
Napthalene		ND	ND	ND	21	ND	ND	ND	ND	120	74	10	64	7	ND	ND	ND
Total Napthalenes	100	ND	6	ND	21	ND	ND	ND	ND	144	95	10	87	ND 7	ND	ND	ND
1,2,4-Trichlorobenzene	140	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2,4-Dimethylphenol	400	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic	50	ND	11	ND	ND	ND	ND	ND	ND	12	10	ND	ND	ND	ND	ND	ND
TRPH	5	10	16	ND	3	ND	ND	ND	ND	5	8	97	23	ND	ND	ND	ND

Concentrations in ppb, except TRPH, which is in ppm.

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
Decane	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND
Decane, 2-methyl	~~560~~	170	ND	ND	ND	56	ND	ND	ND	140	ND	89	ND
Decane, 3,8-dimethyl	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Decane,5-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND
Heptane, 3,4-dimethyl	480 ~~ND~~	ND	ND	ND	ND	ND	ND	ND	ND	68	ND	ND	ND
Tridecane	~~440~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3,5,24-Trimethyl tetracontane	ND	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Butyl-cyclohexane	ND	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1-Butyl-1,3,5,7-cyclooctatraene	ND	ND	ND	150	5	ND	ND	ND	ND	ND	ND	ND	ND
Undecane, 4,6-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61	ND	ND
Pentadecane, 2,6,10,14-tetramethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53	ND	ND
3-Dimethylamino-N-(3-nitrophenyl)-prop-2-en-1-imine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66	ND	ND
1-Methyl-3-propyl benzene	ND	1,600	ND	ND	ND	ND	ND	ND	140	150	ND	ND	ND
1-Methyl-3-(1-methylethyl) benzene	ND	1,500	ND	ND	ND	ND	ND	ND	98	99	ND	220	ND
Methyl (1-methylethyl) benzene	ND	1,200	ND	ND	ND	ND	ND	ND	170	120	ND	ND	ND
Benzene,1-ethyl-2-methyl	~~ND~~	110	ND	31	ND	ND	ND	ND	ND	ND	12	ND	19
Benzene,1-ethyl-3-methyl	~~ND~~	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	ND
Benzene,1-ethyl-4-methyl	~~ND~~	ND	ND	45	ND	ND	ND	ND	170	130	ND	71	25
Benzene, 1-ethyl,3,5-dimethyl	~~ND~~	ND	ND	71	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzene, 1,2-dimethyl	~~ND~~	ND	ND	24	ND	ND	ND	ND	94	56	ND	29	ND

Concentrations in ppb ~~except TRPH, which is in ppm~~

Note: ND = not detected.

Groundwater Sampling Results
March 5, 1992

Contamination Assessment Report
Site 709D-N, Naval Aviation Depot
Pensacola, Florida

Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
1-Ethyl-2-methyl benzene	24	ND	45	140	18	ND	8	8	310	350	62	350	490
1-Ethyl-4-methyl benzene	16	ND	29	87	ND	ND	20	18	150	160	89	250	ND
1-Ethyl-3-methyl benzene	96	810	55	220	10	ND	ND	ND	500	630	70	980	ND
1-Ethyl-3-methyl cyclopentane	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
3-Ethyl-4-methyl hexane	ND	ND	ND	79	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nonane	~~22~~	1,000	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	640
2,5-Dimethyl octane	~~28~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	890
Unknown alkane	~~66~~	3,500	ND	270	ND	19	ND	ND	100	ND	230	1,600	2,500
Unknowns	ND	130	5	49	63	ND	ND	ND	ND	ND	130	ND	ND
1,2,4-Trimethyl benzene	~~23~~	1,900	ND	170	8	ND	ND	ND	170	220	ND	ND	ND
2,6,7-Trimethyl decane	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND
4-Methyl decane	23 ~~1,600~~	1,500	ND	120	ND	ND	ND	ND	ND	ND	ND	380	530
Dodecane	~~84~~	ND	ND	ND	ND	18	ND	11	ND	53	230	1,700	1,500
Dodecane, 4,5-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND
Heptane, 3,4-dimethyl	480	79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane, 2,6-dimethyl	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND
Octane,2,3,7-trimethyl	~~420~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane,2,7-dimethyl	~~450~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Octane, 2,6-dimethyl	ND	250	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND
Nonane, 2-methyl	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
Octane, 4-ethyl	ND	ND	ND	ND	ND	74	ND	ND	ND	ND	ND	ND	ND
Nonane, 3-methyl	~~500~~	69	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND
Octane,4-methyl	~~1,800~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nonane, 2,6-dimethyl	~~710~~	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND
Nonane, 3,7-dimethyl	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND
Naphthalene,decahydro	~~590~~	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene,decahydro-,trans	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
Decahydro-2-methyl naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	ND	ND

Table ___
Groundwater Sampling Results
Site 709D-N

NADEP Pensacola

Other Tentatively Identified Compounds and Their Estimated Concentrations

	Compound	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
PROB FUEL	1-Ethyl-2-methyl benzene	24	ND	45	140	18	ND	8	8	310	350	62	350	490
"	1-Ethyl-4-methyl benzene	16	ND	29	87	ND	ND	20	18	150	160	89	250	ND
"	1-Ethyl-3-methyl benzene	96	810	55	220	10	ND	ND	ND	500	630	70	980	ND
	1-Ethyl-3-methyl cyclopentane	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PROB FUEL	3-Ethyl-4-methyl hexane	ND	ND	ND	79	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dist chem/FUEL	Nonane	22	1,000	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	640
FUEL	2,5-Dimethyl octane	28	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	890
	Unknown alkane	68	3,500	ND	270	ND	19	ND	ND	100	ND	230	1,600	2,500
	~~Unknowne~~	ND	130	5	49	63	ND	ND	ND	ND	ND	130	ND	ND
GASOLINE	1,2,4-Trimethyl benzene	23	1,900	ND	170	8	ND	ND	ND	170	220	ND	ND	ND
GASOLINE	2,6,7-Trimethyl decane	ND	ND	ND	170	ND	ND	ND	ND	ND	ND	ND	ND	ND
AVGAS?	4-Methyl decane	1,600	1,500	ND	120	ND	ND	ND	ND	ND	ND	ND	380	530
PROB FUEL	Dodecane	81	ND	ND	ND	ND	18	ND	11	ND	53	230	1,700	1,500
FUEL?	Dodecane, 4,5-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	14	ND	ND
FUEL	Heptane, 3,4-dimethyl	480	79	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FUEL	Heptane, 2,6-dimethyl	ND	ND	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND
GASOLINE	Octane,2,3,7-trimethyl	420	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FUEL	Octane,2,7-dimethyl	450	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
FUEL	Octane, 2,6-dimethyl	ND	250	ND	ND	ND	19	ND	ND	ND	ND	ND	ND	ND
AVGAS?	Nonane, 2-methyl	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND
PROB FUEL	Octane, 4-ethyl	ND	ND	ND	ND	ND	74	ND	ND	ND	ND	ND	ND	ND
AVGAS?	Nonane, 3-methyl	500	69	ND	ND	ND	ND	ND	ND	ND	53	ND	ND	ND
AVGAS	Octane,4-methyl	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	~~ND~~
FUEL	Nonane, 2,6-dimethyl	710	ND	ND	ND	ND	30	ND	ND	ND	ND	ND	ND	ND
FUEL	Nonane, 3,7-dimethyl	ND	ND	ND	ND	ND	18	ND	ND	ND	ND	ND	ND	ND
PROB FUEL	Naphthalene,decahydro	590	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	Napthalene,decahydro-,trans	ND	ND	ND	ND	ND	17	ND	ND	ND	ND	ND	ND	ND

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Table ___ (continued)
Groundwater Sampling Results
Site 709D-N

NADEP Pensacola

Other Tentatively Identified Compounds and Their Estimated Concentrations

	Compound	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW-7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
PROB FUEL	Decahydro-2-methyl naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	74	ND	ND
GASOLINE	Decane	ND	ND	ND	ND	ND	ND	ND	14	ND	ND	ND	ND	ND
ANGAS?	Decane, 2-methyl	560	170	ND	ND	ND	56	ND	ND	ND	140	ND	89	ND
GASOLINE	Decane, 3,8-dimethyl	ND	68	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ANGAS?	Decane,5-methyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	56	ND	ND	ND
FUEL	Heptane, 3,4-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	68	ND	ND	ND
UNKNOWN	Tridecane	440	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNKNOWN	3,5,25-Trimethyl tetracontane	ND	1,200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
POSS-SOLVENT	Butyl-cyclohexane PROB FUEL	ND	1,700	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ORG RESEARCH	1-Butyl-1,3,5,7-cyclooctatraene	ND	ND	ND	150	5	ND	ND	ND	ND	ND	ND	ND	ND
PROB FUEL	Undecane, 4,6-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	61	ND	ND
ORG SYN.	Pentadecane, 2,6,10,14-tetramethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53	ND	ND
UNKNOWN	3-Dimethylamino-N-(3-nitrophenyl)-prop-2-en-1-imine	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	66	ND	ND
CYMENE	1-Methyl-3-propyl benzene	ND	1,600	ND	ND	ND	ND	ND	ND	140	150	ND	ND	ND
FUEL	1-Methyl-3-(1-methylethyl) benzene	ND	1,500	ND	ND	ND	ND	ND	ND	98	99	ND	220	ND
UNKNOWN	Methyl (1-methylethyl) benzene	ND	1,200	ND	ND	ND	ND	ND	ND	170	120	ND	ND	ND
PROB FUEL	Benzene,1-ethyl-2-methyl	ND	110	ND	31	ND	ND	ND	ND	ND	ND	12	ND	19
"	Benzene,1-ethyl-3-methyl	ND	ND	ND	ND	ND	ND	ND	ND	230	ND	ND	ND	ND
"	Benzene,1-ethyl-4-methyl	ND	ND	ND	45	ND	ND	ND	ND	170	130	ND	71	25
PROB FUEL	Benzene, 1-ethyl,3,5-dimethyl	ND	ND	ND	71	ND	ND	ND	ND	ND	ND	ND	ND	ND
FUEL	Benzene, 1,2-dimethyl	ND	ND	ND	24	ND	ND	ND	ND	94	56	ND	29	ND

Note: ND = not detected.

NADEPGW.TAB
MVL.F05.03.92

Date

Table
Groundwater Sampling Results
Site 709D-N

NADEP Pensacola

Other Tentatively Identified Compounds and Their Estimated Concentrations

	Compound	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
FUEL	Benzene, 1,3-dimethyl	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9 •
"	Benzene, (1-Methylethyl)	ND	73 •	ND	ND	ND	ND	ND	ND	20 ND	ND 300	ND 93	ND 500	ND
"	Benzene, 1-methyl-2-(1-methylethyl)	ND	ND	ND	ND	ND	ND	ND	ND	110 •	ND	ND	ND	ND
"	Benzene,1-methyl-4-(1-methylethyl)	ND	110 •	ND	ND	ND	ND	ND	ND	73 •	ND	ND	35 •	ND
CYMENE	Benzene, 1-methyl-2-propyl	ND	100 •	ND	ND	ND	ND	ND	ND	ND	94 •	ND	ND	ND
CYMENE	Benzene, 1-methyl-3-propyl	ND	ND	ND	ND	ND	ND	ND	ND	100 •	ND 150	ND	ND	~~ND~~
DYES/Intermediates	Benzene, 1,2,3-trimethyl	ND	ND	ND	41 •	ND	ND	ND	ND	ND	180 •	ND	130 •	~~58~~ 27
GASOLINE	~~Benzene,1,2,4 trimethyl~~	~~ND~~	~~ND~~	~~5~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~120 •~~	~~53 •~~	~~32 •~~	~~45 •~~	~~11 •~~
"	Benzene, 1,3,5-trimethyl	ND	ND	ND	67 •	ND	ND	ND	ND	ND	ND	ND	ND 330	ND
ANGAS	Benzene,(1-methypropyl)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	68 •	ND
~~Diesel/A~~	Benzene, 2-ethyl-1,4-dimethyl	ND	ND	ND	ND	ND 7	ND	ND	ND	ND	ND	ND	35 •	ND
DIESEL/ANGAS	~~Benzene, propyl~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~40 •~~	~~ND~~	~~ND~~	~~33 •~~	~~ND~~
FUEL	Benzofuran	ND	ND	ND	ND	ND	ND	ND	ND	45 •	ND	ND	ND	ND
	Substituted benzene	ND	ND	ND	ND	7 •	ND	ND	ND	ND	ND	ND	ND	ND
ANGAS	Diethyl benzene	ND	ND	ND	ND	5 •	ND	ND	ND	ND	ND	ND	ND	ND
PROB FUEL	~~2-Ethyl-1,4-dimethyl benzene~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~7~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~
ANGAS	Propyl benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND 40	79 •	ND	ND 35	ND
FUEL	1-Methyl-2-(1-methylethyl) benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	180 •	ND	ND	ND
ORG SYN	Ethyl ether	ND	ND	52 •	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNK	1,2-Dichloro-1,1,2-triflouroethane	ND	ND	180 •	ND	60 •	ND	51 •	50 •	190 •	ND	ND	ND	ND
"	1,1,2-Trichloro-1,2,2-triflouroethane	ND	ND	ND	ND	ND	ND	8 •	ND	ND	ND	ND	ND	ND
UNKNOWN	1,2-Diethoxy ethane	ND	ND	ND	ND	ND	ND	8 •	ND	ND	ND	ND	ND	ND
"	4-Hydroxypyridine	ND	ND	6 •	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DYE/ INT.	Benzoyl choloride, 4-methyl	ND	ND	7 •	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNK	1-Tridecanol	ND	ND	ND	110 •	ND	ND	ND	ND	ND	ND	ND	ND	ND
	Ortho-D2-benzylcyanide	ND	ND	ND	31 •	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNK	Pyridine, 5-ethenyl-2-methyl	ND	ND	ND	45 •	ND	ND	ND	ND	ND	ND	ND	ND	ND

NADEPGW.TAB
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~~Table ___ (continued)~~
Groundwater Sampling Results
Site 709D-N

NADEP Pensacola

Other Tentatively Identified Compounds and Their Estimated Concentrations

	Compound	MW1	MW2	MW3	MW4	MW5	MW6D	MW7	MW7 Duplicate	MW8	MW8 Duplicate	MW9	MW10	MW11
PHARM/ DISINF	Phenol,3-ethyl	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNK	5-Methoxy-1-Aza-6-oxabicyclo (3.1.0) Hexane	ND	ND	ND	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
FUEL	2-Propanol	ND	ND	ND	ND	ND	21	ND	ND	ND	ND	ND	ND	ND
UNK	1-Methyl-3-pentyl cyclohexane	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
CYMENE	(1-Methyl propyl) cyclohexane	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
FUEL	~~(1-Methylethyl) benzene~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~220~~	~~300~~	~~93~~	~~430~~	~~ND~~
PLUB FUEL	(Cyclopentylmethyl) cyclohexane	ND	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	ND
AVGAS?	4-Methyl nonane	ND	ND	ND	ND	ND	5	ND	ND	ND	ND	ND	ND	ND
UNK	Octahydro-4,7-methano-1H-inden-1-ol	ND	ND	ND	ND	ND	3	ND	ND	ND	ND	ND	ND	ND
FUEL	3,3-Dimethyl octane	ND	ND	ND	ND	ND	5	ND	5	ND	ND	ND	ND	ND
	Cyclopropane, 1-methyl-2-(3-methylethyl)	ND	ND	ND	ND	ND	23	ND	ND	ND	ND	ND	ND	ND
DIST.	1H-indene, 2,3-dihydro	ND	ND	ND	ND	ND	ND	ND	ND	33	ND	16	ND	ND
FUEL	3,6-Dimethyl undecane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	55	ND	ND
FUEL	3,6-Dimethyl octane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	200
	2,3,5-Trimethyl hexane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	190
AVGAS?	3-Methyl nonane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	280
INT	Pulegone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9	ND	ND
GASOLINE	~~1,3,5 Trimethyl benzene~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~ND~~	~~330~~	~~ND~~
tar acid	3-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	53
tar acid	4-Methylphenol	ND	ND	ND	ND	ND	ND	ND	ND	ND	100	ND	ND	ND
UNK	4-Cyclohexyl undecane 4-cyclohexyl	ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND	ND	ND

Note: ND = not detected.

NADEPGW.TAB
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Table 5-3
Soil Sample Results
February 22 through February 23, 1992
Site 709D-N

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	5-7	0.7	9.5	11	130
SB1/MW1	15-17	ND	1.5	ND	28
SB2/MW2	5-7	ND	ND	ND	ND
SB2/MW2	15-17	ND	ND	ND	ND
SB3/MW3	5-7	ND	ND	ND	ND
SB3/MW3	15-17	ND	ND	Nd	3.3
SB4/MW4	5-7	ND	ND	ND	ND
SB4/MW4	15-17	ND	ND	ND	ND
SB5/MW5	5-7	ND	ND	ND	ND
SB5/MW5	15-17	ND	ND	ND	ND
SB6/MW6 →	No samples	collected			
SB7/MW7	5-7	ND	ND	ND	6.5
SB7/MW7	15-17	ND	ND	ND	ND
SB8/MW8	5-7	ND	ND	ND	3.9
SB8/MW8	15-17	ND	ND	ND	ND
SB9/MW9	5-7	ND	ND	ND	ND
SB9/MW9	15-17	ND	ND	ND	ND
SB10/MW10	5-7	ND	ND	ND	ND
SB10/MW10	15-17	ND	ND	ND	ND
SB11/MW11	5-7	ND	ND	ND	ND
SB11/MW11	15-17	ND	ND	ND	ND
Regulatory level		5.0	1.0	5.0	5.0

Note: ND = not detected.

Concentration in ppm

NADEPSS.TAB
MVL.F05.05.92

Table 5-2
Summary of Soil Sample FID Results
February 9 through February 23, 1992
Site 709D-N

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	~~5-7~~ 5 to 7	3	No odor
	10-12	0	No odor
	15-17	110	Slight odor
SB2/MW2	5-7	0	No odor
	10-12	0	No odor
	15-17	18	Slight odor
SB3/MW3	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB4/MW4	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB5/MW5	5-7	0	No odor
	10-12	2	No odor
	15-17	2	No odor
SB6/MW6D	No measurements taken		
SB7/MW7	5-7	4	No odor
	10-12	0	No odor
	15-17	0	No odor
SB8/MW8	5-7	NM	No odor
	10-12	0	No odor
	15-17	0	Faint odor
SB9/MW9	5-7	NM	No odor
	10-12	NM	No odor
	15-17	0	No odor
SB10/MW10	5-7	0	No odor
	10-12	0	No odor
	15-17	0	Slight odor
SB11/MW11	5-7	NM	No odor
	10-12	0	No odor
	15-17	0	No odor

[1]Corrected for methane.

Notes: ppm = parts per million.
NM = not measured.

Table ____
Site 649W, Goundwater Sampling Results

NADEP Pensacola

	Compound	Regulatory level	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D	Equipment blank	Trip blank	Lab blank
FUEL	Benzene	1	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	Xylene		2	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	Total VOA	50	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
NON-FUEL	1,1-Dichloroethene	7	ND	ND	ND	ND	ND	28	ND	ND	ND	ND
FUEL	1,1-Dichloroethane	2400	ND	ND	ND	83	83	28	ND	ND	ND	ND
WASTE OIL	Methylene chloride	5	9	120	44	110	ND	110	4	5	2	1
"	1,1,1-Trichloroethane	200	3	860	79	830	940	1,000	ND	ND	ND	ND
"	bis(2-Ehtylhexyl)phthalate		ND	50	ND	ND	ND	14	ND	ND	NA	ND
INSECTICIDE/PESTICIDE/HERBICIDE FUMIGANT	Chloroform	100	ND	ND	ND	ND	ND	ND	3	ND	ND	ND
NL	Cadmium	10	14	ND	ND	ND	ND	ND	ND	ND	NA	ND
FUEL	TRPH	5	ND	2	ND	12	13	11	ND	ND	NA	ND

Duplicate sample was collected from monitoring well MW4.

Note: ND = not detected.
VOA = volatile organic analyte.
NA = not analyzed.
TRPH = total recoverable petroleum hydrocarbons.

NADEPGW.TAB
MVL.F05.03.92

Table ___
Groundwater Sampling Results
Site 649W

NADEP Pensacola

	Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D
UNKNOWN	1,1,2-Trichloro-1,2,2-trifluoro ethane	ND	75	15	25	ND	ND	ND
Fuels-Related	2-Methyl butane AVGAS	3	ND	ND	ND	ND	ND	ND
"	2,3-Dimethyl pentane fuels & gasoline	25	ND	ND	ND	ND	ND	ND
"	2,4-Dimethyl pentane "	4	ND	ND	ND	ND	ND	ND
"	2,3,3-Trimethyl pentane gasoline	8	ND	ND	ND	ND	ND	ND
"	2,3,4-Trimethyl pentane "	3	ND	ND	ND	ND	ND	ND
ORGANIC SYNTHESIS	2-Methyl-1-pentane	2	ND	ND	ND	ND	ND	ND
	Undecyl-cyclohexane	ND	ND	ND	ND	ND	130	ND
PROB. FUELS/OILS/LUBRICANTS	Octyl-cyclohexane	ND	ND	ND	ND	ND	160	ND
"	3,5-Dimethyl octane fuels & gasoline	ND	ND	ND	ND	ND	140	ND
"	4-Ethyl-octane "	ND	ND	ND	ND	160	320	ND
"	2,3,6-Trimethyl octane gasoline	ND	ND	ND	73	ND	ND	ND
"	2,3,7-Trimethyl octane "	ND	ND	ND	ND	ND	ND	6
"	2,3-Demethyl nonane fuels & gasoline	ND	ND	ND	ND	ND	84	ND
"	2,6-Demethyl nonane "	ND	ND	ND	47	ND	130	ND
"	2-Methyl decane AVGAS?	ND	ND	ND	37	ND	ND	ND
"	3-Methyl decane "	ND	ND	ND	ND	67	ND	ND
"	4-Methyl decane "	ND	ND	ND	ND	300	ND	ND
"	2,6,8-Trimethyl decane gasoline	ND	ND	ND	58	ND	ND	ND
"	Methylcyclodecane	ND	12	ND	ND	ND	ND	ND
Fuels Related	Undecane	ND	ND	ND	ND	ND	ND	7
"	3-Methyl undecane	ND	ND	ND	ND	120	ND	ND
Fuels Related	2,5-Demethyl undecane fuels	ND	ND	ND	ND	160	ND	ND
"	2,6-Demethyl undecane "	ND	ND	ND	ND	ND	100	ND
PROB. FUELS/OILS/LUBRICANTS	4,6-Demethyl undecane	ND	ND	ND	ND	460	ND	ND
PROB. FUELS/OILS/LUBRICANTS	Dodecane	ND	130			700	150	2
"	4,6-Demethyl dodecane	ND	ND	ND	ND	150	ND	ND

See note at bottom of table.

NADEPGW.TAB
MVL.F05.03.92

Table ___ (continued)
Groundwater Sampling Results
Site 649W

NADEP Pensacola

	Other tentatively identified compounds and their estimated concentrations	MW1	MW2	MW3	MW4	MW4 duplicate	MW5	MW6D
Fuels-Related	2,7,10-Trimethyl dodecane gasoline	ND	ND	ND	46	ND	ND	ND
Prob. Fuels/Oils/Lubrication	5-Propyl tridecane distillation chaser	ND	ND	ND	ND	ND	ND	69
Distillation	Tetradecane " "	ND	14	ND	190	ND	530	11
Prob. Fuels/Oils Lubrication	Pentadecane	ND	ND	ND	130	ND	ND	12
"	Heptadecane a combustible	ND	ND	ND	73	83	110	5
"	1-Ethyl-2-methyl benzene	ND	ND	20	ND	ND	ND	ND
"	1-Ethyl-3-methyl benzene	ND	ND	10	ND	ND	ND	ND
"	1-Ethyl-4-methyl benzene	ND	ND	10	ND	ND	ND	ND
"	2-Ethyl-1,4-dimethyl benzene	ND	ND	39	ND	ND	ND	ND
"	1-Ethyl-3,5-dimethyl benzene	ND	ND	11	ND	ND	ND	ND
Fuels Related	1,2-Diethyl benzene AVGAS	ND	ND	10	ND	ND	ND	ND
NL	1,2,3-Trimethyl benzene	ND	ND	7	ND	ND	ND	ND
UNKNOWNS	(2-Chloro-2-buteryl)-benzene	ND	ND	11	ND	ND	ND	ND
	Unknown substituted benzene	1	ND	ND	ND	ND	ND	ND
	Unknown alkanes	ND	430	ND	1,100	3,000	450	5
Distillations	2,3-Dihydro-5-methyl-1H-indene	ND	ND	10	ND	ND	ND	ND
Prob. Fuels/Oils/Lubricants	Decahydro-trans-naphthalene	ND	8	ND	43	80	100	3
"	N-(4-aminophenyl)-acetamide penetrating oil?	ND	43	28	ND	ND	ND	ND
Organic synthesis	Tetracosane	ND	ND	ND	ND	ND	ND	6
	(3) Unknowns	ND	56	ND	ND	ND	ND	ND

Note: ND = not detected.

NADEPGW.TAB
MVL.F05.03.92

Table 5-3
Soil Sample Results
February 19 through February 26, 1992
Site 649W

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	5-7	ND	ND	ND	ND
SB1/MW1	15-17	ND	ND	ND	ND
SB2/MW2	5-7	ND	ND	ND	ND
SB2/MW2	15-17	ND	ND	6.8	ND
SB3/MW3	5-7	ND	ND	ND	ND
SB3/MW3	15-17	ND	ND	2.7	ND
UNK1		ND	11	9.3	130
SB4/MW4	15-17	ND	ND	14	9.9
SB5/MW5	5-7	ND	ND	ND	ND
SB5/MW5	15-17	ND	ND	3.2	ND
Regulatory level		5.0	1.0	5.0	5.0

Notes: ND = not detected.
UNK1 = unknown.

Concentrations in ppm

NADEPSS.TAB
MVL.F05.05.92

Table 5-2
Summary of Soil Sample FID Results
February 19 through February 26, 1992
Site 649W

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB2/MW2	5-7	NM	No odor
	10-12	NM	No odor
	15-17	NM	No odor
SB3/MW3	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB4/MW4	5-7	0	No odor
	10-12	30	Some petroleum odor
	15-17	9	Some petroleum odor
SB5/MW5	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB6/MW6D	No measurements taken		

[1]Corrected for methane.

Notes: ppm = parts per million.
NM = not measured.

Regulatory Level

Table ___
Groundwater Sampling Results
Site 649N

NADEP Pensacola

	Compound		MW1	MW2	MW3	MW4D	MW4 D duplicate	MW5	MW6	MW7	MW8	MW9	Lab blank
WASTE OIL	Methylene chloride	5	2	54	420	3	8	2,100	150	ND	18	340	1
FUEL	1,1-Dichloroethane	2400	2	810	ND	ND	ND	ND	1,400	ND	10	370	3
NON FUEL	1,1-Dichloroethene	7	ND	ND	ND	ND	ND	2,100	300	ND	ND	ND	ND
"	1,1,1-Trichloroethane	200	15	700	6,400	1	15	15,000	2,700	ND	48	2,300	ND
"	1,3-Dichlorobenzene	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1,4-Dichlorobenzene	75	ND	ND	nd	ND	ND	6	ND	13	ND	ND	ND
"	1,2,4-Trichlorobenzene		ND	ND	ND	ND	ND	ND	ND	7	ND	ND	ND
NL	Chromium	50	ND	ND	ND	ND	ND	3,000	ND	2,000	ND	ND	ND
INSECTICIDE/Pesticides/Herbicides Fumigant	Chloroform	100	ND	ND	ND	2	ND	ND	ND	ND	ND	ND	ND
NL	Lead	50	ND	16	7	ND	ND	ND	12	ND	ND	42	ND
FUELS	TRPH	5	4	1	1	ND	10	ND	ND	ND	ND	4	ND
	Tentatively identified compounds (estimated value)												
UNKNOWN	1,1,2-Tricloro-1,2,2-triflouro-ethane										440		1

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

NADEPGW.TAB
MVL.F05.03.92

Table 5-3
Soil Sample Results
February 18 through February 27, 1992
Site 649N

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	5-7	ND	ND	ND	ND
SB1/MW1	15-17	ND	ND	2.7	12
SB2/MW2	5-7	ND	ND	ND	ND
SB2/MW2	15-17	ND	ND	ND	ND
SB3/MW3	5-7	ND	ND	ND	ND
SB3/MW3	15-17	ND	ND	ND	ND
SB4/MW4	5-7				
UNK2		ND	ND	ND	ND
SB5/MW5	5-7	ND	ND	ND	ND
SB5/MW5	15-17	ND	ND	ND	ND
SB6/MW6	5-7	ND	ND	ND	ND
SB6/MW6	15-17	ND	0.8	ND	3.1
SB7/MW7	5-7	ND	ND	ND	ND
SB7/MW7	15-17	ND	0.7	ND	ND
SB8/MW8	5-7	ND	ND	ND	3.7
SB8/MW8	15-17	ND	ND	ND	ND
SB9/MW9	5-7				
SB9/MW9	15-17				
Reg. Level		5.0	1.0	5.0	5.0

Note: ND = not detected.
UNK2 = unknown well.

Concentrations in ppm

NADEPSS.TAB
MVL.F05.05.92

Table 5-2
Summary of Soil Sample FID Results
February 18 through February 27, 1992
Site 649N

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	5-7	11	No odor
	10-12	9	No odor
	15-17	35	Petroleum odor
SB2/MW2	5-7	1	No odor
	10-12	2	No odor
	15-17	60	Slight odor
SB3/MW3	5-7	3	No odor
	10-12	4	No odor
	15-17	4	No odor
SB4D/MW4D	5-7	NM	No odor
	10-12	NM	No odor
	15-17	15	No odor
SB5/MW5	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB6/MW6	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB7/MW7	5-7	1	No odor
	10-12	0	No odor
	15-17	0	No odor
SB8/MW8	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB9/MW9	5-7	0	No odor
	10-12	0	No odor
	15-17	5	Slight odor

[1]Corrected for methane.

Notes: ppm = parts per million.
NM = not measured.

Table ___
Groundwater Sampling Results
Site 648N

NADEP Pensacola

Regulatory Level

which need?

	Compounds		MW1	MW2	MW3	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Duplicate	Equipment blank	Trip blank	Lab blank
Waste Oil	Tetrachloroethene	3	310	11	ND	570	140	41	ND	4	ND	ND	1	ND	ND	ND
Non Fuel	1,1,1-Trichloroethane	200	100	61	16	1,800	ND	350	8	22	8	ND	21	ND	ND	ND
" "	1,2,4-Trichlorobenzene	140	8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Waste Oil	Methylene Chloride	5	ND	12	ND	380	38	77	ND	ND	ND	3	4	7	6	5
Fuel	Naphthalene		ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	Total naphthalenes	100	ND	ND	ND	11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Non Fuel	Trichloroethene	3	ND	ND	ND	ND	ND	11	ND	3	3	ND	ND	ND	ND	ND
Fuels	Xylenes		ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND
"	Total VOA	50	ND	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND
"	1,1-Dichloroethane	2400	ND	ND	ND	ND	ND	26	ND	3	ND	ND	ND	ND	ND	ND
Fumigant	Chloroform	100	ND	ND	ND	ND	ND	ND	ND	1	ND	ND	ND	ND	ND	ND
Fuel	TRPH	5	12	ND	ND	34	ND	3	1	ND	ND	1	ND	ND	ND	ND

Note: ND = not detected.

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Table ___
Groundwater Sampling Results
Site 648N

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Duplicate	Equipment blank	Trip blank	Lab blank
UNKNOWN	1,1,2-Trichloro-1,2,2-trifluoroethane	2,600	110	16	2,200	180	ND	ND	9	7	ND	21	ND	ND	12
	Unknown alkane	540	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ORGANIC synthesis	1-octane	ND	ND	ND	ND	15	ND	ND	ND	ND	ND	ND	ND	ND	ND
fuels & gasoline	2,5-Dimethyl octane	490	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
" "	3,3-Dimethyl octane	ND	ND	ND	780	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	3,5-Dimethyl-octane	90	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PROB. Fuels/OILS/ LUBRICANTS	Nonane	390	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	2-Methyl-nonane (AVGAS?)	ND	ND	ND	44	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NL	5-Butyl nonane	270	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
leaded gas	Decane AVGAS	840	ND	ND	1,800	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	Decane "	300	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PROB. Fuels/OILS/ LUBRICANTS	2-Methyl-decane AVGAS	ND	ND	ND	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	2-Mmethyl-undecane "	66	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	3-Methyl-decane "	78	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	4-Methyl-decane "	74	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	5-Methyl-decane "	99	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
gasoline	2,4-Dimethyl-decane	120	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PROB. Fuel/OIL/ LUBRICANTS	2-Ethyl-1-decanol	ND	ND	ND	1,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNKNOWN	1-Tridecanol	ND	ND	ND	1,000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NL	1-Iodo tetradecane	1,400	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
PROB. FUEL/OIL/ LUBRICANTS	Dodecane	1,200	ND	ND	2,100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

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Table ___ (continued)
Groundwater Sampling Results
Site 648N

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Duplicate	Equipment blank	Trip blank	Lab blank
Prob. Fuel/or/ Lubricant	1-Ethyl-2-Methyl benzene	ND	ND	ND	650	38	300	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Ethyl-3-methyl benzene	ND	ND	ND	930	13	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Ethyl-3-methyl benzene	ND	ND	ND	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Ethyl-4-methyl benzene	ND	ND	ND	590	18	180	ND	ND	ND	ND	ND	ND	ND	ND
"	1,Ethyl-2,3-dimethyl benzene	ND	ND	ND	ND	ND	35	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Ethyl-2,4-dimethyl benzene	ND	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Ethyl-3,5-dimethyl benzene	ND	ND	ND	ND	8	41	ND	ND	ND	ND	ND	ND	ND	ND
"	2-Ethyl-1,4-dimethyl benzene	ND	ND	ND	ND	ND	39	ND	ND	ND	ND	ND	ND	ND	ND
"	1,3-Dimethyl-5-(1-methylethyl)benzene (fuels ?)	240	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,3-diethyl-5-methyl-benzene	73	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	4-Ethyl-1,2-dimethyl benzene	ND	ND	ND	ND	ND	150	ND	ND	ND	ND	ND	ND	ND	ND
"	2-Ethyl-1,4-dimethyl benzene	ND	ND	ND	ND	ND	180	ND	ND	ND	ND	ND	ND	ND	ND
Fuels-Related	1-Methylethyl-benzene Fuels	ND	ND	ND	89	17	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNKNOWN	Methyl(1-methylethyl)benzene	230	ND	ND	ND	21	220	ND	ND	ND	ND	ND	ND	ND	ND
Fuels Related	1-Methyl-2-(1-methylethyl)-benzene Fuels	ND	ND	ND	580	ND	63	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Methyl-2-(1-methylethyl)-benzene Fuels	ND	ND	ND	54	ND	230	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Methyl-3-(1-methylethyl)-benzene Fuels	320	ND	ND	ND	16	320	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Methyl-4-(1-methylethyl)-benzene	ND	ND	ND	68	ND	51	ND	ND	ND	ND	ND	ND	ND	ND
~~Solvents~~	1-Methylpropane benzene cymene	ND	ND	ND	ND	ND	32	ND	ND	ND	ND	ND	ND	ND	ND
Solvents	1-Methyl-2-propyl-benzene cymene	ND	ND	ND	72	7	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1-Methyl-3-propyl-benzene "	89	ND	ND	ND	15	270	ND	ND	ND	ND	ND	ND	ND	ND

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Prob. Fuels/oils/Lubricants - gasoline(?)

Table ___ (continued)
Groundwater Sampling Results
Site 648N

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW1	MW2	MW3	MW4	MW5D	MW6	MW7	MW8	MW9	MW10	Duplicate	Equipment blank	Trip blank	Lab blank
SOLVENT	1-Methyl-4-propyl-benzene (cymene)	ND	ND	ND	52	ND	180	ND	ND	ND	ND	ND	ND	ND	ND
Fuels Related	1,2-Dimethyl-benzene (ortho xylene)	ND	ND	ND	43	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	1,2,3-Trimethyl benzene	ND	ND	ND	ND	ND	54	ND	ND	ND	ND	ND	ND	ND	ND
Fuels Related	1,2,4-Trimethyl benzene gasoline	ND	ND	ND	ND	10	ND	ND	ND	ND	ND	ND	ND	ND	ND
"	1,3,5-Trimethyl benzene "	ND	ND	ND	ND	18	330	ND	ND	ND	ND	ND	ND	ND	ND
"	1,2,4,5-Tetramethyl benzene (AVGAS)	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND	ND	ND	ND
UNKNOWN	3,6-pyridazinedione, 1,2-diydro	ND	ND	ND	ND	ND	ND	ND	12	ND	ND	9	ND	ND	ND
NL	Phenol,4-fluoro	ND	ND	ND	ND	ND	ND	ND	18	44	ND	17	ND	ND	ND
Fuels Related	Isopropanol (deicing agent in liquid fuels)	ND	ND	ND	ND	ND	ND	ND	ND	ND	60	ND	ND	ND	ND
PROD. Fuels/Oils/Lubricants	Octanal	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
	Nonanal	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	ND	ND
PROD. Fuels/oils/Lubricants	Triazine, diamine,-methoxy-N,N'-bis(1-methylethyl) High Temp. LUBRICANT	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	35	ND	ND	ND
	Unknown	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

Note: ND = not detected.

Pharmaceuticals - perfumes, Flavoring agent

NADEPGW.TAB
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Table 5-2
Soil Sample Results
January 28 through February 7, 1992
Site 648N

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	5-7	ND	ND	ND	ND
SB1/MW1	15-17	ND	ND	ND	ND
SB2/MW2	5-7	ND	ND	ND	51
SB2/MW2	15-17	ND	ND	ND	ND
SB3/MW3	5-7	ND	ND	ND	ND
SB3/MW3	15-17	ND	ND	ND	ND
SB4/MW4	5-7	ND	ND	ND	ND
SB4/MW4	15-17	ND	ND	ND	ND
SB5/MW5D	No samples ~~taken~~ collected				
SB6/MW6	5-7	0.7	ND	ND	ND
SB6/MW6	15-17	ND	ND	ND	ND
SB7/MW7	5-7	ND	ND	ND	ND
SB7/MW7	15-17	ND	ND	ND	2.6
SB8/MW8	5-7	ND	ND	ND	ND
SB8/MW8	15-17	ND	ND	ND	7.9
SB9/MW9	5-7	ND	ND	ND	ND
SB9/MW9	15-17	ND	ND	ND	ND
Regulatory level		5.0	1.0	5.0	5.0

Note: ND = not detected.

Concentrations in ppm

NADEPSS.TAB
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Table 5-2
Summary of Soil Sample FID Results
January 28 through February 7, 1992
Site 648N

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	5-7	2	No odor
	10-12	5	Slight odor
	15-17	8	No odor
SB2/MW2	5-7	0	No odor
	10-12	2	No odor
	15-17	3	No odor
SB3/MW3	5-7	2	No odor
	10-12	2	No odor
	15-17	0	No odor
SB4/MW4	5-7	8	No odor
	10-12	14	Slight odor
	15-17	15	No odor
SB5D/MW5D	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB6/MW6	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB7/MW7	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB8/MW8	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB9/MW9	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor

[1]Corrected for methane.

Note: ppm = parts per million.

Table ___
Groundwater Sampling Results
Site 647N

NADEP Pensacola

	Compound	Regulatory Level	MW2	MW4	MW5	MW6	MW7	MW8D	MW9	MW9 duplicate	Trip blank	Lab blank
WASTE OIL	Methylene chloride	5	3	10	2	3	5	1	3	ND	ND	1
Insecticides/Pesticides/Herbicides FUMIGANT	Chloroform	100	ND	ND	ND	ND	ND	2	ND	ND	ND	ND
FUELS	1,1-Dichloroethane	2400	ND	130	2	36	160	ND	ND	ND	ND	ND
NON-FUEL	1,1,1-Trichloroethane	200	3	99	7	61	24	1	2	4	ND	ND
FUELS	Ethyl benzene		ND	ND	ND	3	ND	ND	ND	ND	ND	ND
FUELS	Total VOA	50	ND	ND	ND	3	ND	ND	ND	ND	ND	ND
FUELS	Xylene (total)		ND	45	ND	96	20	3	ND	ND	ND	ND
FUELS	Natpthalene	100	ND	11	ND	8	ND	ND	ND	ND	ND	ND
FUELS	TRPH	5	ND	68	ND	2	ND	ND	ND	ND	ND	ND

Notes: ND = not detected.
VOA = volatile organic ~~analyte~~. aromatics
TRPH = total recoverable petroleum hydrocarbons.

NADEPGW.TAB
MVL.F05.03.92

MAINLY FUELS

Table ___
Groundwater Sampling Results
Site 647N

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW2	MW4	MW5	MW6	MW7	MW8D	MW9	MW9 duplicate	Trip blank	Lab blank
UNKNOWN	1,1,2-Trichloro-1,2,2-trifluoro-ethane	8	23	31	ND	ND	ND	ND	1	1	1
"	1,2-Dichloro-1,1,2-trifluoro-ethane	ND	9	4	ND	78	ND	ND	ND	ND	ND
Prob. Fuels/oils/LUBRICANT	1,3-Diethyl-5-methl-benzene	ND	ND	ND	ND	ND	12	ND	ND	ND	ND
"	1-Ethyl-2-methyl-benzene	ND	8	ND	350	34	ND	ND	ND	ND	ND
"	1-Ethyl-3-methyl-benzene	ND	12	ND	440	20	ND	ND	ND	ND	ND
"	1-Ethyl-4-methyl-benzene	ND	17	ND	180	28	ND	ND	ND	ND	ND
	1-Methyl-2,3-dimethyl-benzene	ND	ND	ND	29	ND	ND	ND	ND	ND	ND
Prob. FUELS/OILS/LUBRICANTS	1-Ethyl-3,5-dimethyl-benzene	ND	ND	ND	ND	ND	6	ND	ND	ND	ND
"	2-Ethyl-1,3-dimethyl-benzene	ND	ND	ND	ND	ND	5	ND	ND	ND	ND
"	2-Ethyl-1,4-dimethyl-benzene	ND	10	ND	170	7	21	ND	ND	ND	ND
NL	1,2,3-Trimethyl-benzene	ND	ND	ND	130	ND	5	ND	ND	ND	ND
GASOLINE	1,2,4-Trimethyl-benzene	ND	26	ND	77	ND	ND	ND	ND	ND	ND
GASOLINE	1,3,5-Trimethyl-benzene	ND	ND	ND	ND	58	ND	ND	ND	ND	ND
ORGANIC SYNTHESIS	1,2,3,4-Tetramethyl-benzene	ND	5	ND	ND	ND	20	ND	ND	ND	ND
"	1,2,3,5-Tetramethyl-benzene	ND	ND	ND	ND	ND	16	ND	ND	ND	ND
FUELS	(1-Methylethyl)-benzene	ND	ND	ND	230	30	20	ND	ND	ND	ND
UNKNOWN	Methyl(1-methylethyl)-benzene	ND	4	ND	67	ND	28	ND	ND	ND	ND
FUEL	1-Methyl-naphthalene	ND	ND	ND	ND	ND	ND	2	ND	ND	ND
WASTE OIL/FUEL	2-Methyl-naphthalene	ND	ND	ND	ND	ND	ND	5	ND	ND	ND
PROB. FUELS/OILS/LUBRICANTS	1-(2-Methylphenyl)-ethanone	ND	ND	ND	28	ND	ND	ND	ND	ND	ND
" " (AVGAS?)	2-Methyl-decane	ND	30	ND	ND	ND	ND	ND	ND	ND	ND

NADEPGW.TAB
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MAINLY FUELS

Table ___ (continued)
Groundwater Sampling Results
Site 647N

NADEP Pensacola

	Tentatively identified compounds (estimated values)	MW2	MW4	MW5	MW6	MW7	MW8D	MW9	MW9 duplicate	Trip blank	Lab blank
PROB. FUEL/OIL/ LUBRICANT	2,6-Dimethyl-undecane	ND	14	ND	ND	ND	ND	ND	ND	ND	ND
"	Dodecane	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
ORGANIC SYNTHESIS	Pentadecane	ND	18	ND	ND	ND	ND	ND	ND	ND	ND
UNKNOWN	2-Methyl-1-penten-3-ol	ND	ND	ND	ND	ND	8	ND	ND	ND	ND
PROB. FUEL/OIL/ LUBRICANT	3-Methyl-nonane (ALL GAS?)	ND	19	ND	ND	ND	ND	ND	ND	ND	ND
DISTILLATION	2,3-Dihydro-1-methyl-1H-indene	ND	6	ND	ND	ND	ND	ND	ND	ND	ND
"	2,3-Dihydro-4-methyl-1H-indene	ND	ND	ND	70	ND	ND	ND	ND	ND	ND
"	2,3-Dihydro-1,3-dimethyl-1H-indene	ND	ND	ND	ND	ND	7	ND	ND	ND	ND
FUELS/Related	1,2-Dimethyl-naphthalene	ND	11	ND	ND	ND	ND	ND	ND	ND	ND
PROB. FUELS/OILS LUBRICANTS	Trans-decahydro-naphthalene	ND	18	ND	ND	ND	7	ND	ND	ND	ND
UNKNOWN	Hexyl-cyclo-hexane	ND	13	ND	ND	ND	ND	ND	ND	ND	ND
"	Hexamethyl-cyclotrisiloxane (column Breakdown product)	ND	ND	ND	ND	ND	ND	ND	12	ND	ND
"	Unknown siloxane "	ND	ND	ND	ND	ND	ND	ND	6	ND	ND
Solvents	1-Methyl-2-propyl benzene (cymene)	ND	ND	ND	36	6	21	ND	ND	ND	ND
"	1-Methyl-3-propyl benzene "	ND	ND	ND	120	7	38	ND	ND	ND	ND
"	1-Methyl-4-propyl benzene "	ND	ND	ND	61	ND	ND	ND	ND	ND	ND
Fuels	1-Methyl-2-(1-methylethyl)-benzene	ND	ND	ND	85	ND	26	ND	ND	ND	ND
"	1-Methyl-3-(1-methylethyl)-benzene	ND	ND	ND	170	ND	24	ND	ND	ND	ND
"	1-Methyl-4-(1-methylethyl)-benzene	ND	ND	ND	47	9	ND	ND	ND	ND	ND
PROB. FUELS/OILS/ LUBRICANTS	2-Propanol	ND	ND	ND	ND	ND	460	ND	ND	ND	ND
WASTE OIL	bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	12	ND	ND	ND	ND

NADEPGW.TAB
MVL.F05.03.92

Table 5-3
Soil Sample Results
February 21, 1992
Site 647N

February 20, 1992 through February 27, 1992

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead	Methylene chloride	Ethyl benzene	Toluene	Xylene	TRPH
SB1/MW1	5-7	ND	ND	ND	ND					
SB1/MW~~2~~1	15-17	ND	ND	ND	ND					
SB2/MW2	5-7	ND	ND	ND	ND					
SB2/MW2	15-17	0.6	ND	ND	ND					
SB3/MW3	5-7	1.3	1.1	9.3	30					
SB3/MW~~4~~3	15-17	ND	ND	4.4	4.3					
SB4/MW4	5-7	ND	3.3/0.07	3.1/ND	27/0.21	9.4	ND	22	22	16,000
SB4/MW4	15-17	ND	0.6/0.02	ND	5.4/ND	ND	54	44	920	24,000
SB5/MW5	5-7	ND	ND	ND	ND					
SB5/MW5	15-17	ND	ND	ND	ND					
SB6/MW6	5-7	ND	ND	ND	ND					
SB6/MW6	15-17	ND	ND	ND	ND					
SB7/MW7	5-7	ND	ND	ND	ND					
SB7/MW7	15-17	ND	ND	ND	ND					
SB8/MW8D	5-7		No samples taken.							
SB8/MW8D	15-17		No Samples taken.							
SB9/MW9	5-7	ND	ND	ND	ND					
SB9/MW9	15-17	ND	ND	ND	ND					
Regulatory level		5.0	1.0	5.0	5.0					

Values in parts per million.
TCLP = Toxicity Characteristic Leaching Procedure
TRPH = Total Recoverable Petroleum Hydrocarbons
Note: ND = not detected.

Concentrations ' = TCLP value

NADEPSS.TAB
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Table 5-2
Summary of Soil Sample FID Results
February 20 through February 27, 1992
Site 647N

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB2/MW2	5-7	5	No odor
	10-12	1	No odor
	15-17	0	No odor
SB3/MW3	5-7	90	Strong petroleum odor
	10-12	25	Strong petroleum odor
	15-17	>500	Strong petroleum odor
SB4/MW4	5-7	250	Strong petroleum odor
	10-12	200	Strong petroleum odor
	15-17	450	Strong petroleum odor
SB5/MW5	5-7	10	Slight petroleum odor
	10-12	5	No odor
	15-17	3	No odor
SB6/MW6	5	1	No odor
	10	3	No odor
SB7/MW7	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor
SB8/MW8D	No measurements taken		
SB9/MW9	5-7	0	No odor
	10-12	0	No odor
	15-17	0	No odor

[1]Corrected for methane.

Note: ppm = parts per million.

Table ___
Groundwater Sampling Results
Site 647E

NADEP Pensacola

(Use) Source	Compound	Regulatory Level	MW1	MW1 Duplicate	MW2	Trip blank	Lab blank
WASTE OIL	Methylene chloride	5	5	6	60	5	5
" "	1,1,1-Trichloroethane	200	4	4	180	ND	ND
" "	Bis(2-Ethylhexyl)phthalate		ND	ND	16	ND	ND
FUELS	1,1-Dichloroethane	2400	ND	2	ND	ND	ND
"	TRPH	5	ND	2	ND	ND	ND
	Other Tentatively Identified Compounds and Their Estimated Concentrations ← breakdown products of fuels						
PROB. FUEL/OILS/LUBRICANTS	1-Ethyl-2-methyl benzene		10	9	ND	ND	ND
"	1-Ethyl-4-methyl benzene		25	22	ND	ND	ND
"	1-Ethyl-3-methyl benzene		11	9	ND	ND	ND
INSECTICIDE/HERBICIDE/PESTICIDE	Diethyl benzene		4	3	ND	ND	ND
SOLVENTS	1-Methyl-2-propyl benzene		4	3	ND	ND	ND
POS. FUELS/OILS/LUBRICANTS	2-Ethyl-1,4-dimethyl benzene		5	4	ND	ND	ND
"	4-Ethyl-1,2-dimethyl benzene		4	3	ND	ND	ND
DISTILLATION	2,3-Dihydro-1-methyl-1H-indene		4	3	ND	ND	ND
ORGANIC SYNTHESIS	1,2,3,4-Tetramethyl benzene		4	3	ND	ND	ND
	Unknown		4	3	ND	ND	ND
	Benzene,1,2,3-trimethyl		7	6	ND	ND	ND
Probable Fuels/Oils/Lubricants	2-Propanol		ND	ND	2	ND	ND

Notes: ND = not detected.
TRPH = total recoverable petroleum hydrocarbons.

NADEPGW.TAB
MVL.F05.03.92

Table 5-3
Soil Sample Results
February 21, 1992
Site 647E

NADEP Pensacola

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead
SB1/MW1	6	MD	ND	ND	ND
SB1/MW1	12	ND	ND	ND	ND
SB2/MW2	6	ND	ND	ND	6.6
SB2/MW2	12	ND	ND	ND	ND
SB3/MW3	2	ND	ND	6.2	4.5
MW3 duplicate		ND	0.8	9.1	9.2
Regulatory level		5.0	1.0	5.0	5.0

Note: ND = not detected.

which are

Concentrations in ppm

NADEPSS.TAB
MVL.F05.05.92

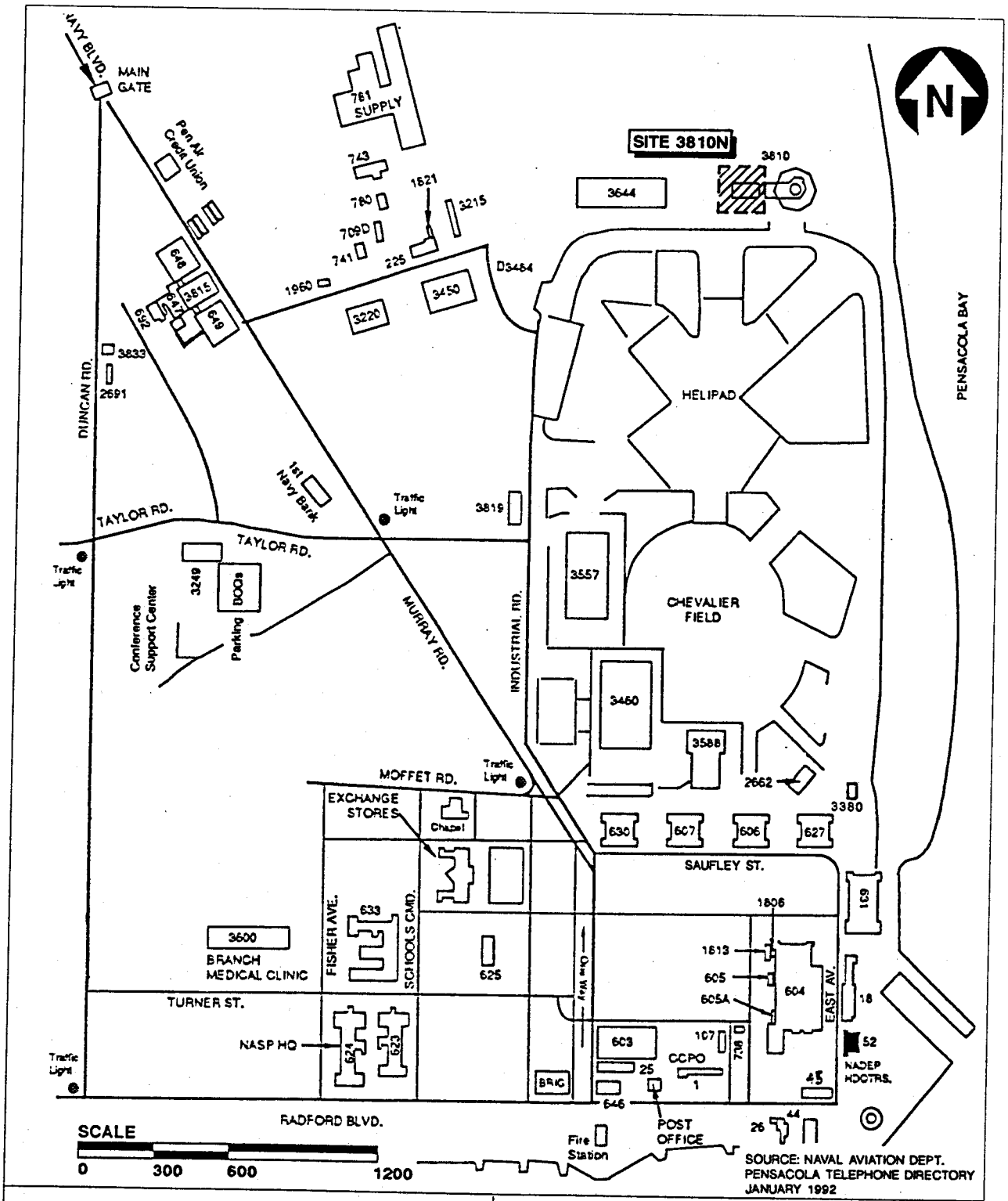
Table 5-2
Summary of Soil Sample FID Results
February 21, 1992
Site 647E

NADEP Pensacola

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	6	1	No odor
	12	15	No odor
SB2/MW2	6	8	No odor
	12	8	No odor
SB3	5	750	Strong petroleum odor

[1]Corrected for methane.

Note: ppm = parts per million.



SOURCE: NAVAL AVIATION DEPT.
PENSACOLA TELEPHONE DIRECTORY
JANUARY 1992

FIGURE 2-1
SITE LOCATION MAP
SITE 3810N

CONTAMINATION ASSESSMENT REPORT ADDENDUM
NADEP PENSACOLA
PENSACOLA, FLORIDA

OVA

Table 5-2
Summary of Soil Sample FID Results
January 22 through February 22, 1992
Site 604S

NADEP Pensacola

IN small letters

Boring Designation	Depth (feet)	Concentration[1] (ppm)	Comments
SB1/MW1	4	0	No odor/no discoloration
SB2/MW2	4	0	No odor/no discoloration
SB3/MW3	4 to 6 ~~4-6~~	4	No odor/no discoloration
SB4/MW4	4	0	No odor/no discoloration
SB5/MW5	~~4-6~~	0	No odor/no discoloration
SB6/MW6	~~4-6~~	0	No odor/no discoloration
SB7/MW7	4-6	0	No odor/no discoloration
SB8/MW8	4-6	0	No odor/no discoloration
SB9/MW9	4-6	0	No odor/no discoloration
SB10/MW10	4-6	0	No odor/no discoloration
SB11/MW11	4	0	No odor/no discoloration
SB12/MW12D	No measurements taken		

[1]Corrected for methane.

Note: ppm = parts per million.

Contaminated Assessment Report
Site 604S, Naval Aviation Depot
Pensacola, FLORIDA

Table 5-3
Soil Sample Results
January 22 through February 22, 1992
Site 604S

NADEP Pensacola

ppm or ppb??

Sample ID	Depth (feet)	Arsenic	Cadmium	Chromium	Lead	Acetone	2-propano	TRPH
SB1/MW1	1.5	0.9	ND	12	8.9			
SB1/MW1	4-6	1.9/ND	0.7/0.01	18/ND	13/0.06	2,800	150	12
SB2/MW2	2	3.1	45	36	450			
SB2/MW2	4-6	3.2	43	46	310			
SB3/MW3	2	0.6	4.0	11	42			
SB3/MW3	4-6	0.5	5.9	13	78			
SB4/MW4	2	0.7	ND	ND	7.2			
SB4/MW4	4-6	0.6	ND	ND	7.4			
SB5/MW5	4-6	0.9	ND	ND	30			
SB6/MW6	4-6	ND	ND	ND	110			
SB7/MW7	4-6	0.7	1.0	3.1	84			
SB8/MW8	4-6	1.9	ND	ND	32			
SB9/MW9	4-6	ND	ND	ND	5.7			
SB10/ MW10	4-6	ND	ND	ND	330			
SB11/ MW11	4-6	0.7	ND	ND	84			
Duplicate		2.5	ND	ND	60			
Regulatory level		5.0	1.0	5.0	5.0			

Concentrations are in ~~ppb, except for TRPH, which is in~~ ppm.

Notes: TCLP = Toxicity Characteristic Leaching Procedure
TRPH = total recoverable petroleum hydrocarbons.
ND = not detected.

TCLP value

NADEPSS.TAB
MVL.F05.05.92

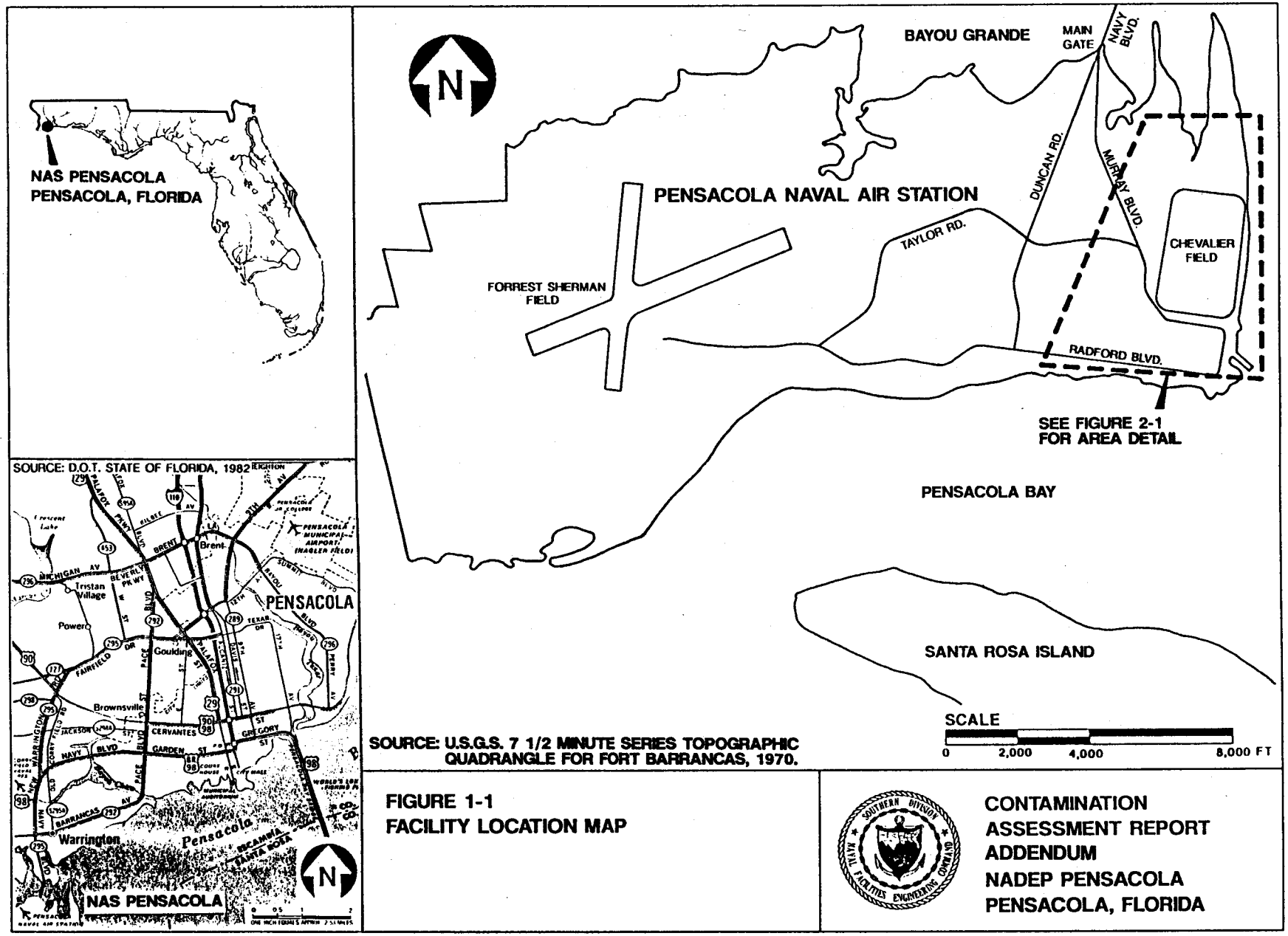
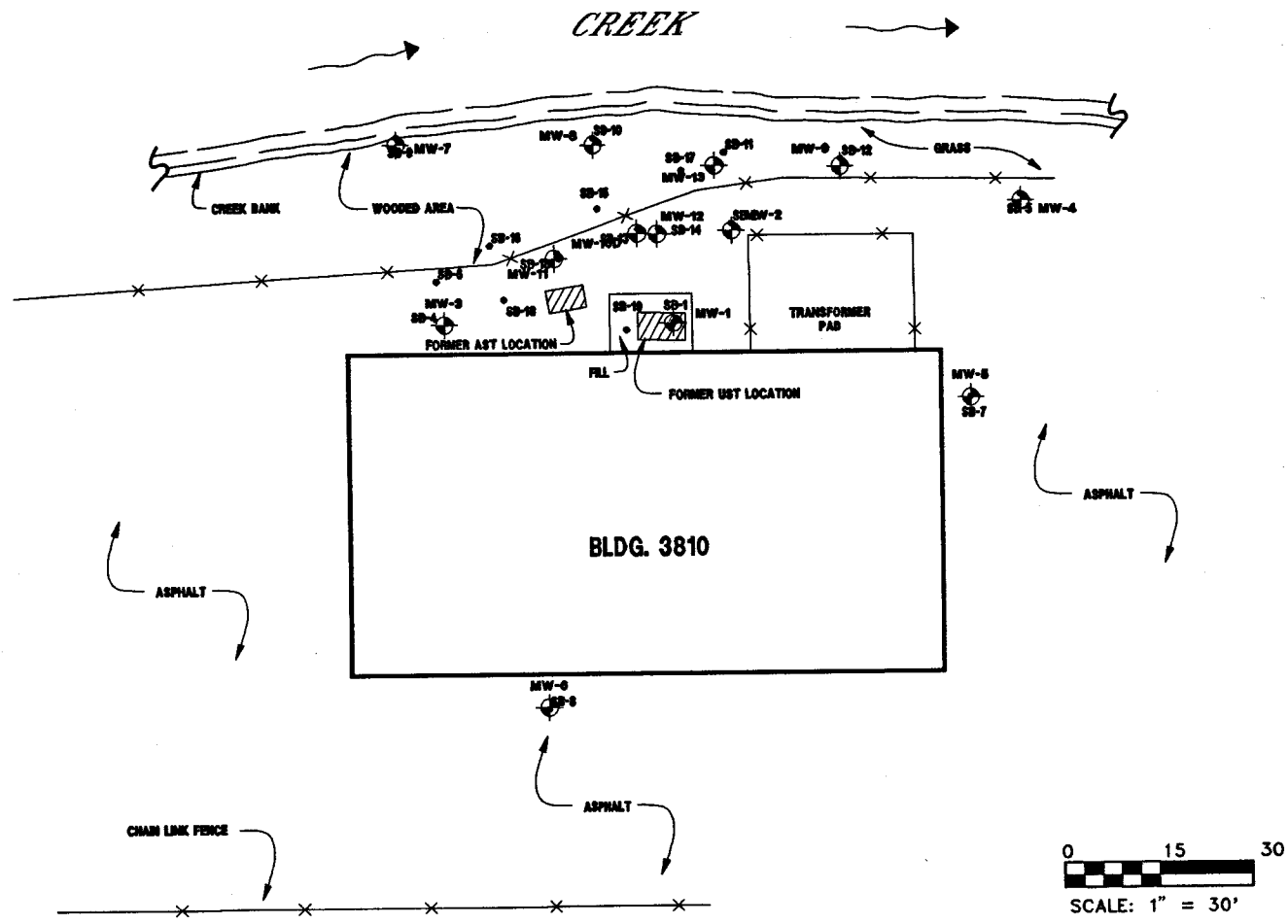


FIGURE 1-1
FACILITY LOCATION MAP

CONTAMINATION ASSESSMENT REPORT ADDENDUM
NADEP PENSACOLA
PENSACOLA, FLORIDA



LEGEND

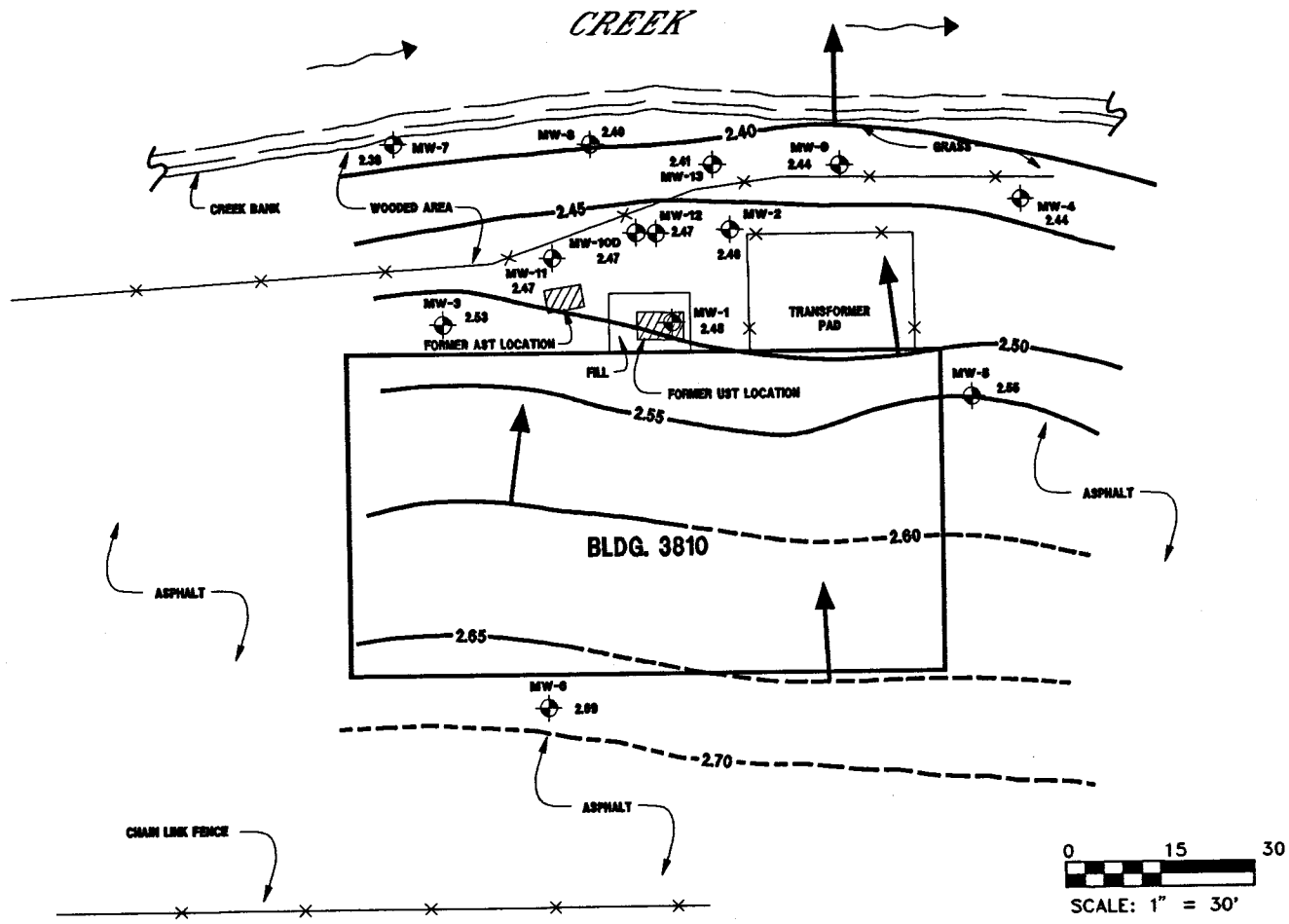
MW-1 Monitoring Well Location

SB-1 Soil Boring Location

FIGURE 2-2
SITE PLAN WITH MONITORING WELL AND SOIL BORING LOCATIONS

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



LEGEND

MW-1 / 2.48 — Monitoring well location with water table elevation in feet

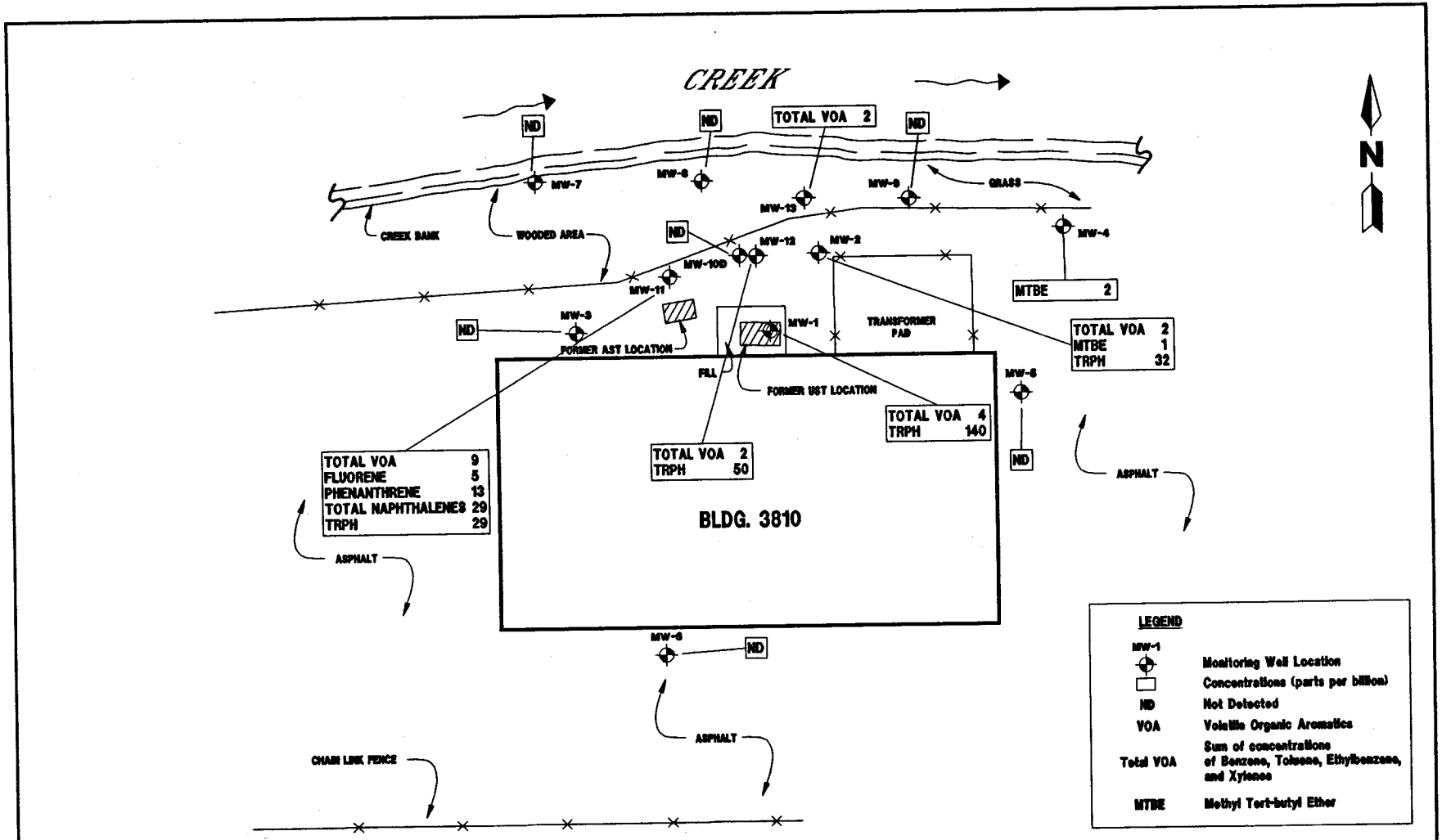
—2.60— Equipotential Line (dashed where inferred)

Contour Interval = 0.05 feet

FIGURE 3-1
WATER TABLE ELEVATION CONTOUR MAP, SURFICIAL ZONE, JAUNUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



0 15 30
SCALE: 1" = 30'

FIGURE 3-2
GROUNDWATER CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA

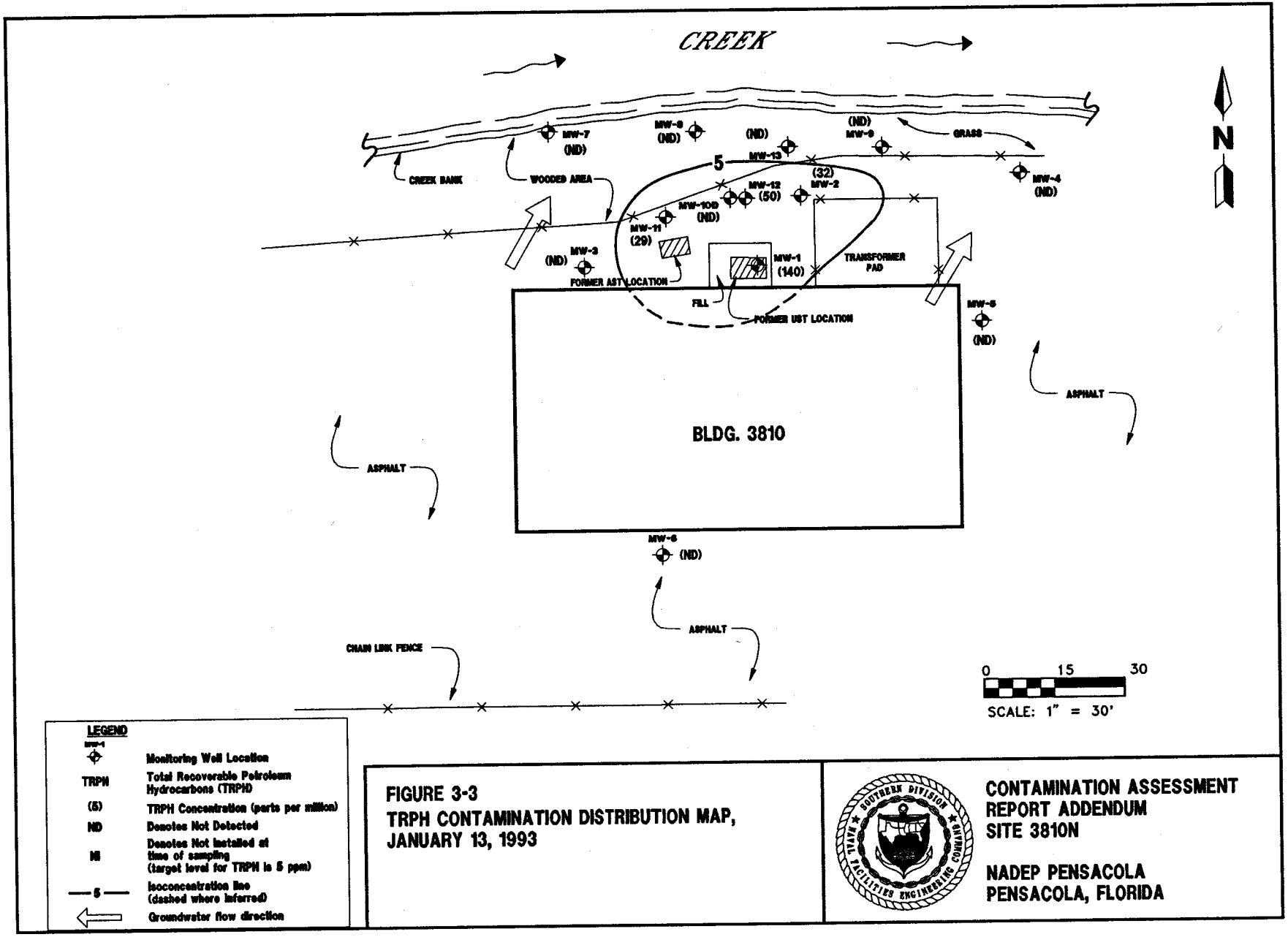
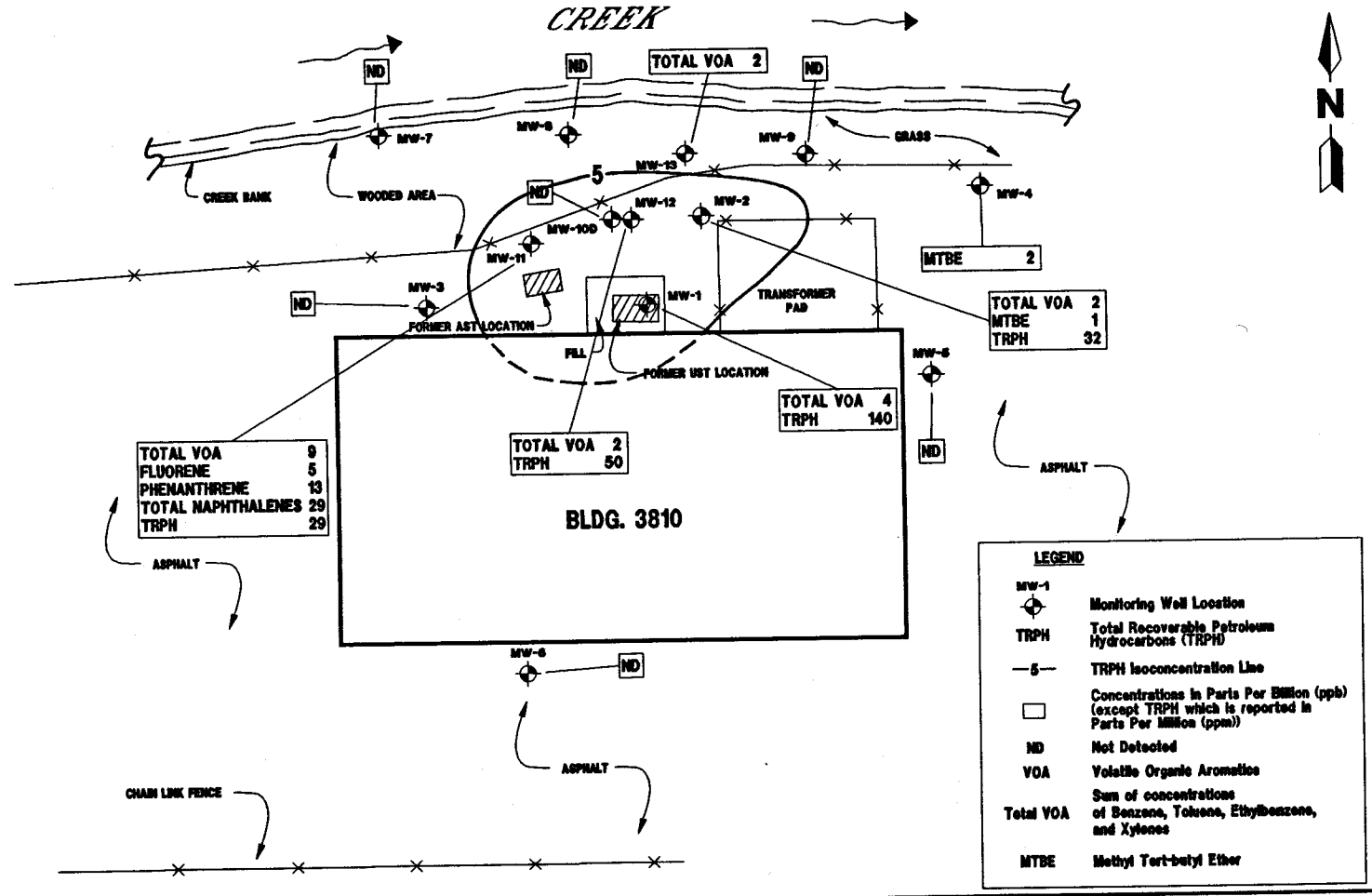


FIGURE 3-3
TRPH CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



0 15 30

SCALE: 1" = 30'

EXECUTIVE SUMMARY FIGURE

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA

For Routing To Other Than The Addressee	
To:	Location:
To:	Location:
To:	Location:
From:	Date:

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

Interoffice Memorandum

TO: Eric S. Nuzie, Federal Facilities Coordinator
Bureau of Waste Cleanup

THROUGH: Dr. James J. Crane, P.G. III/Administrator JJC
Technical Review Section

~~Tim Bahr,~~ ~~Professional Geologist II~~ B
Technical Review Section

FROM: Michael J. Deliz, Environmental Specialist II mjD
Technical Review Section

DATE: November 4, 1992

SUBJECT: Draft Final Contamination Assesment Report - dated September, 1992
Naval Aviation Depot, Naval Air Station, Pensacola
Site 3810N

The Bureau of Waste Cleanup has reviewed the Contamination Assessment Report (CAR) dated September 1991 (received September 29, 1992). In order to meet the requirements of Chapter 17-770, Florida Administrative Code (F.A.C.), the following comments need to be addressed:

General Comments

1. Please dash contours when the areal extent of isoconcentrations is unknown or if there is no data to support a closed contour.

2. Tidally influenced areas should have water level determinations that encompass one tide cycle.

Specific Comments

3. This Contamination Report (CAR) and all supplemental contamination assessment related documents should be signed and sealed by a registered professional in accordance with Rule 17-770.500, F.A.C. The certification should be made by a registered professional who is able to demonstrate competence in the subject area addressed within the sealed document. Until this document is signed and sealed by a registered professional it cannot be approved.

4. Page 5-9, Table 5-4, The groundwater analysis on monitor well MW-11 for 1,1,1-Trichloroethane and 1-Methylnaphthalene are reversed with respect to the laboratory results in the Appendix.

5. An additional, permanent, water table monitoring well should be installed 20 feet east of MW-8 to define the horizontal extent of groundwater contamination in the down gradient direction.

6. Following installation of the supplemental monitoring well, ~~a complete round of sampling and analysis for EPA Methods~~ 602 (including MTBE), 610, and 418.1 should be performed. In addition, monitoring wells MW-8 and MW-11 should be sampled and analyzed for EPA Method 601 so that this review can be completed and a Remedial Action Plan (RAP) can be prepared based on current data. Note, additional monitoring wells should be installed if significant contaminant concentrations are detected at perimeter monitoring wells or at the vertical extent well.

Please provide the results of the supplemental assessment to the Technical Review Section within sixty (60) days of receipt of this request. If additional time is needed, it should be requested in accordance with the Navy's Petroleum Contamination Agreement Site Management Plan process.

/mjd

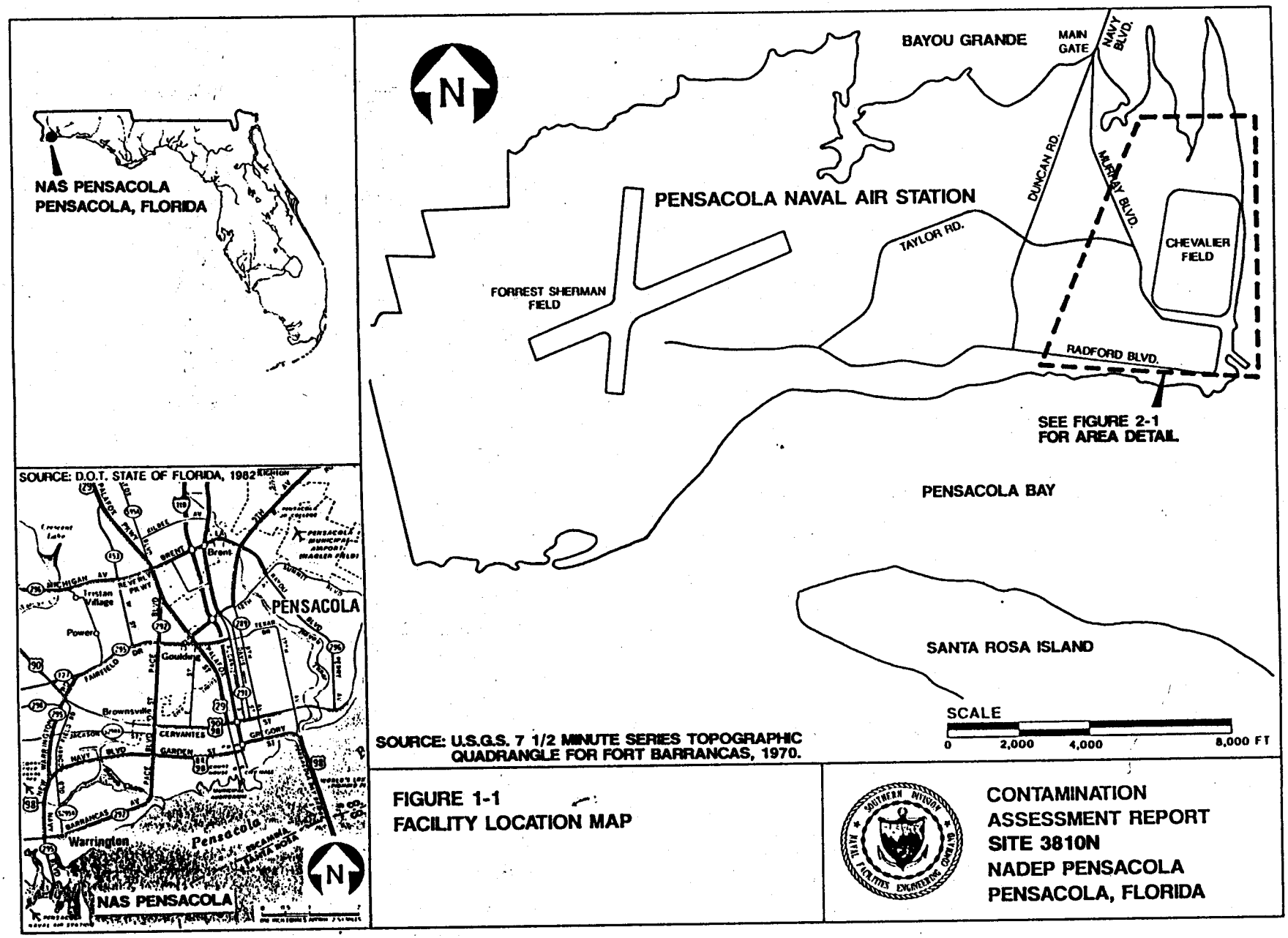


FIGURE 1-1
FACILITY LOCATION MAP

CONTAMINATION ASSESSMENT REPORT
SITE 3810N
NADEP PENSACOLA
PENSACOLA, FLORIDA

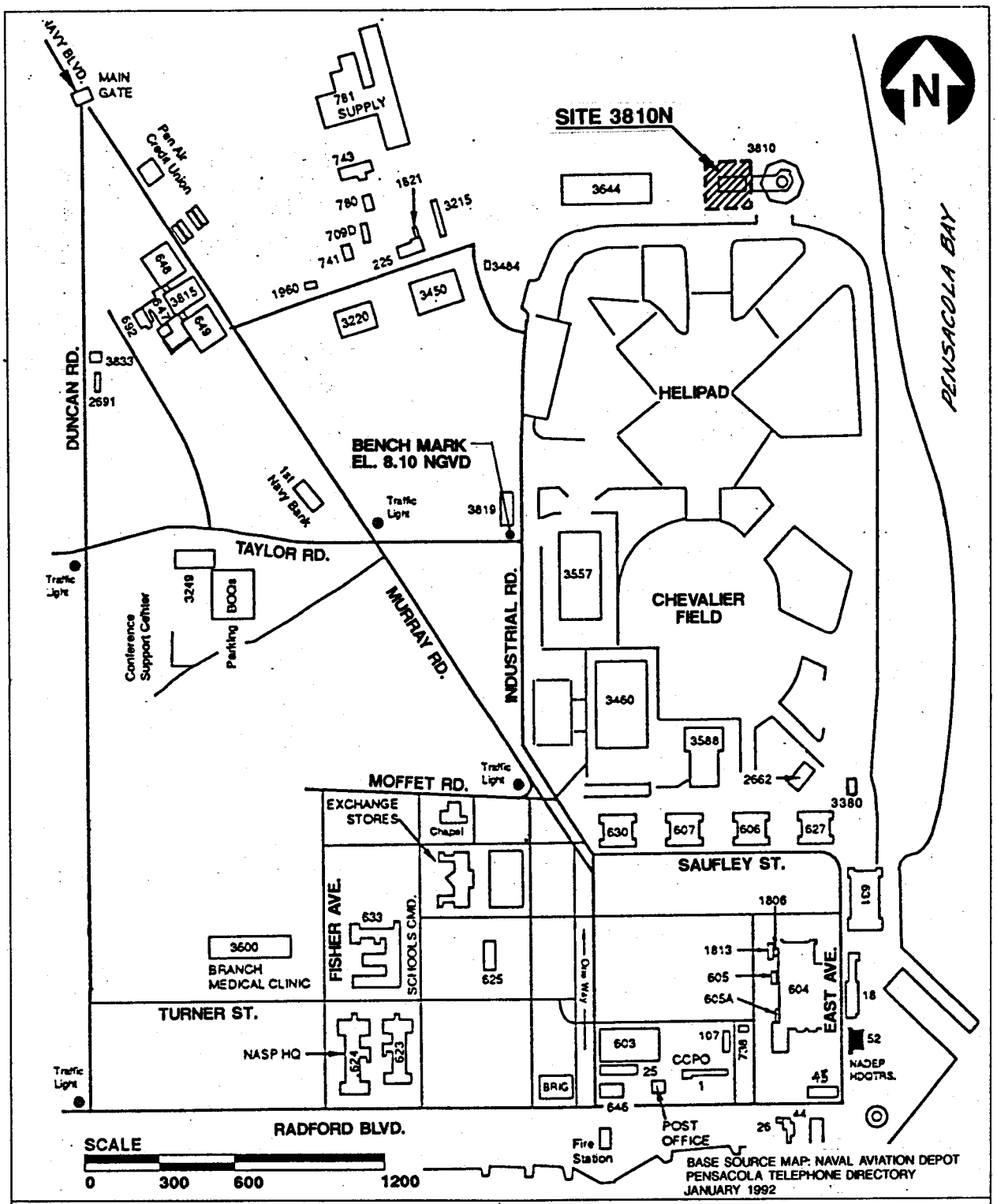
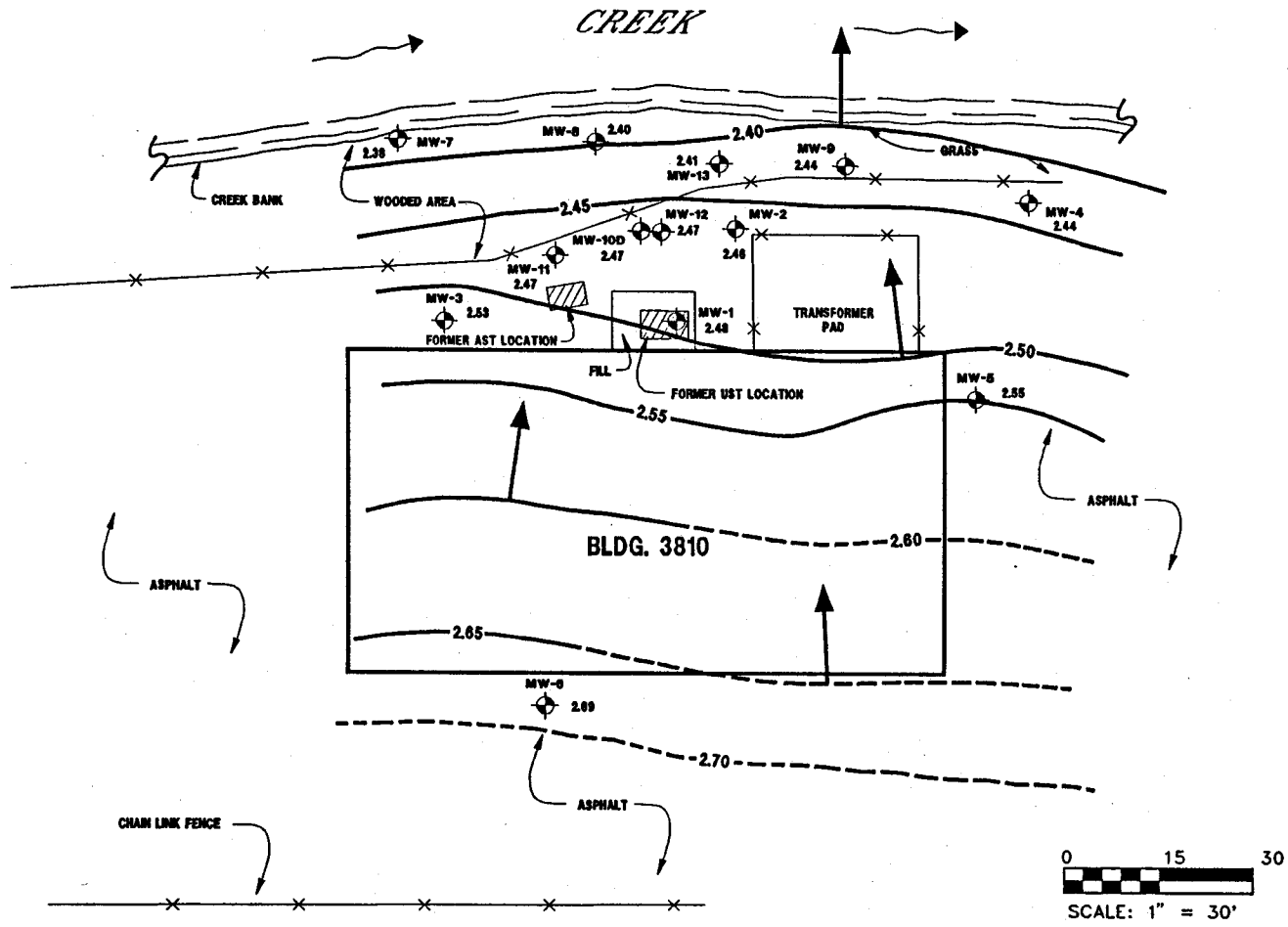


FIGURE 2-1
SITE LOCATION MAP

CONTAMINATION
ASSESSMENT REPORT
SITE 3810N
NADEP PENSACOLA
PENSACOLA, FLORIDA



LEGEND

MW-1 / 2.48 — Monitoring well location with watertable elevation in feet

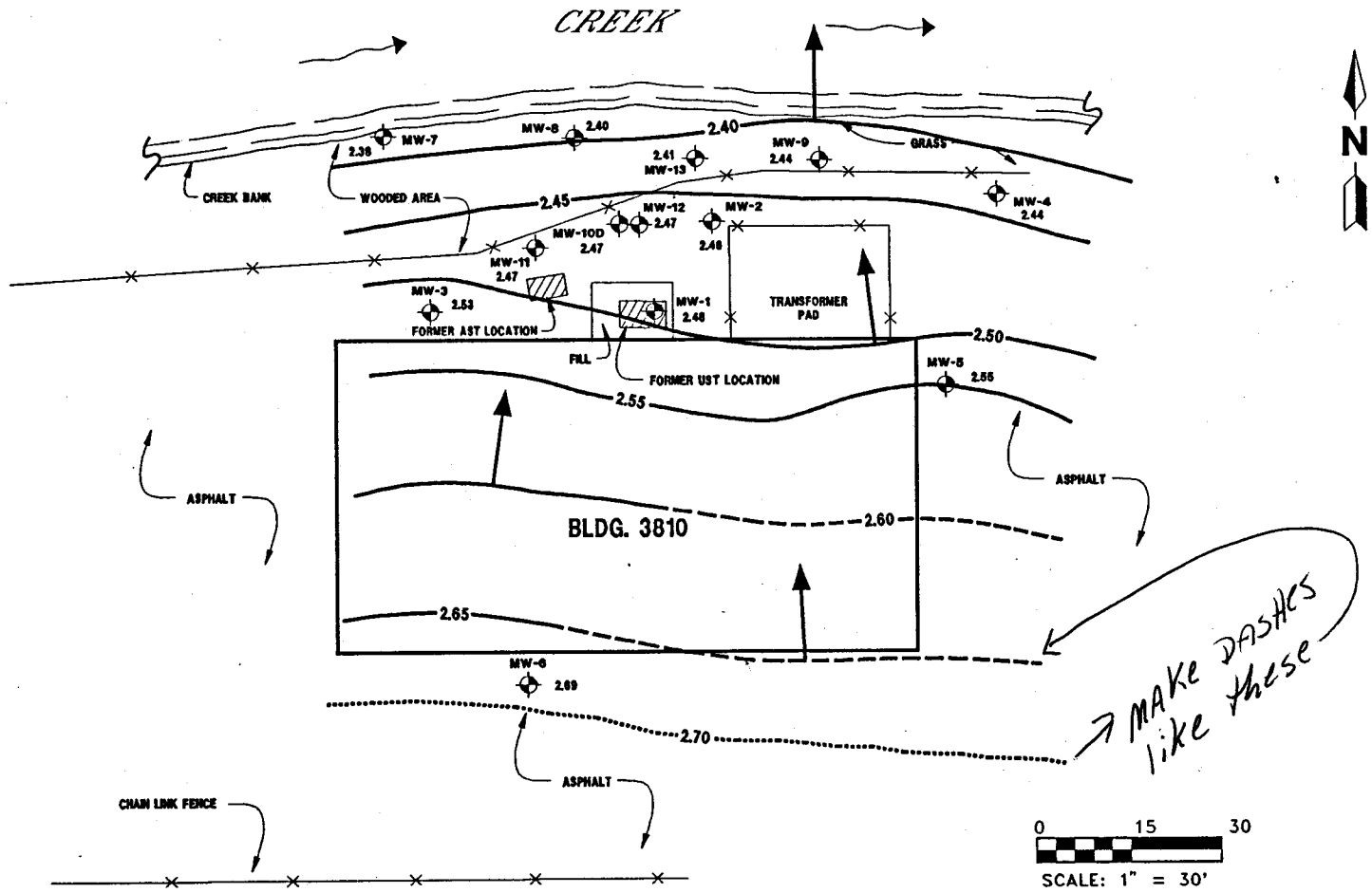
—2.60— Equipotential Line (dashed where inferred)

Contour Interval = 0.05 feet

FIGURE 3-1
WATER TABLE ELEVATION CONTOUR MAP, SURFICIAL ZONE, JAUNUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 3810N

NADEP PENSACOLA PENSACOLA, FLORIDA



LEGEND

MW-1 2.48 — Monitoring well location with watertable elevation in feet

2.60 — Equipotential Line (dashed where inferred)

Contour interval = 0.05 feet

FIGURE 3-1
WATER TABLE ELEVATION CONTOUR MAP, SURFICIAL ZONE, JAUNUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA

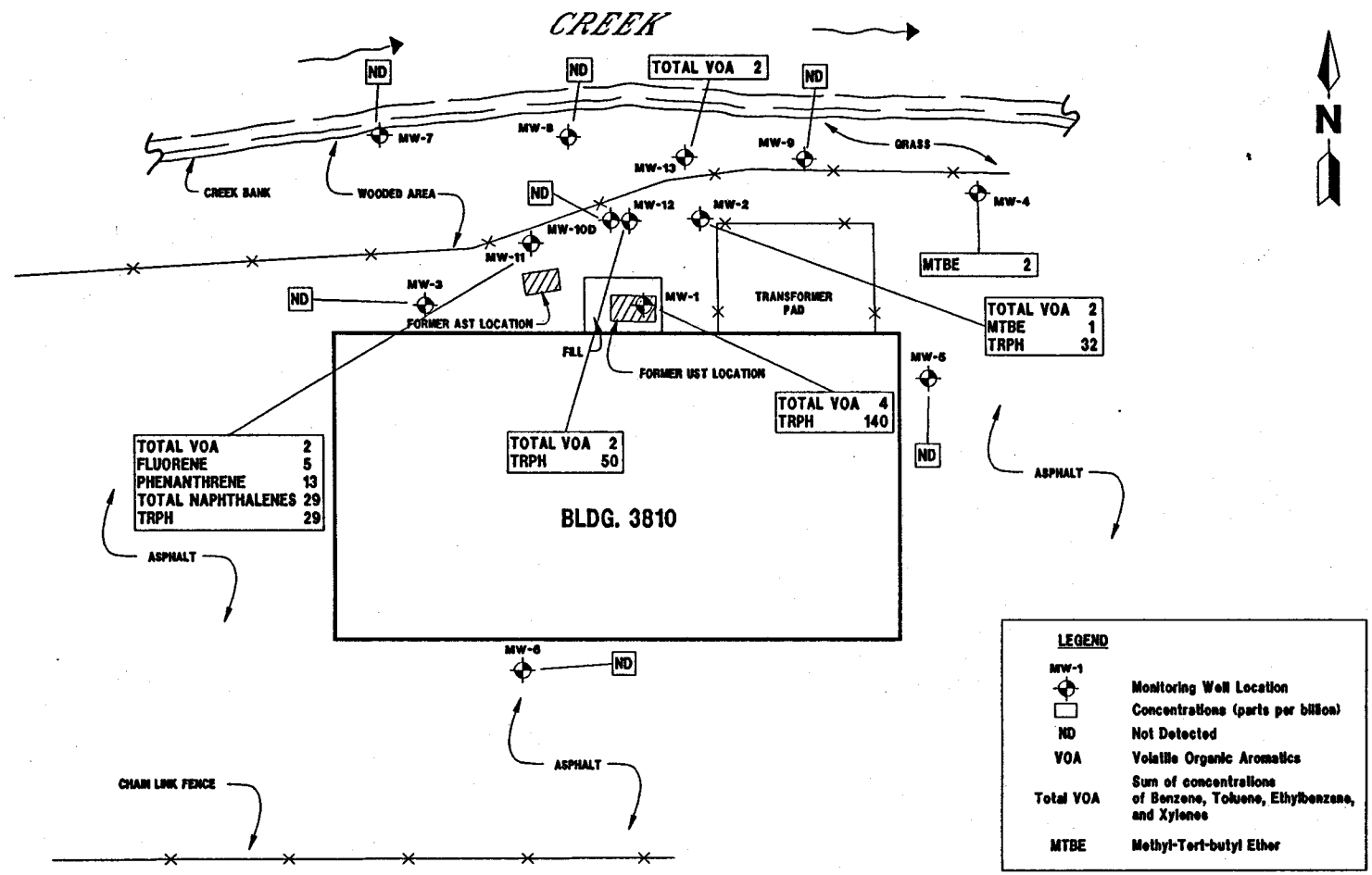
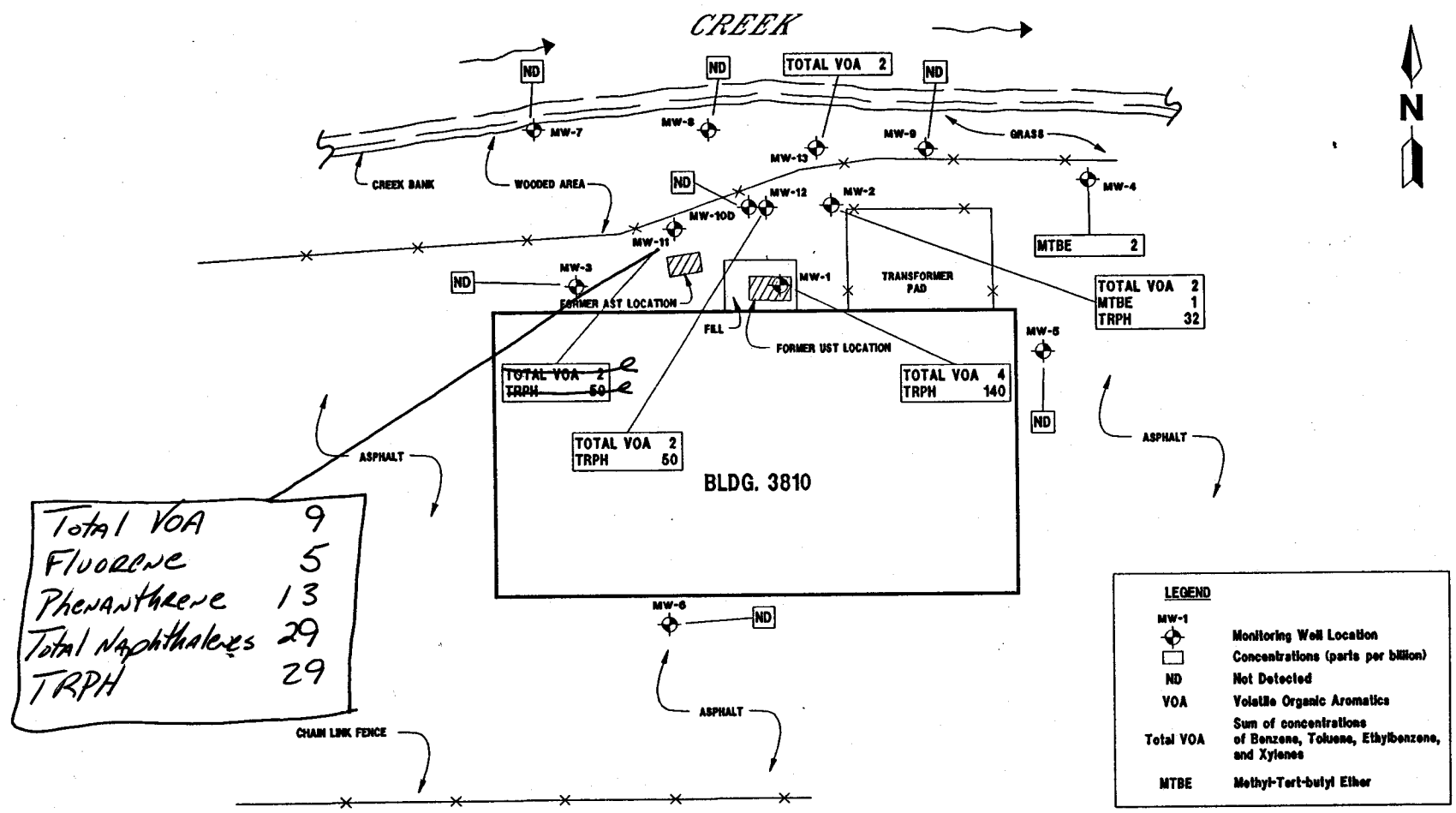


FIGURE 3-2
GROUNDWATER CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



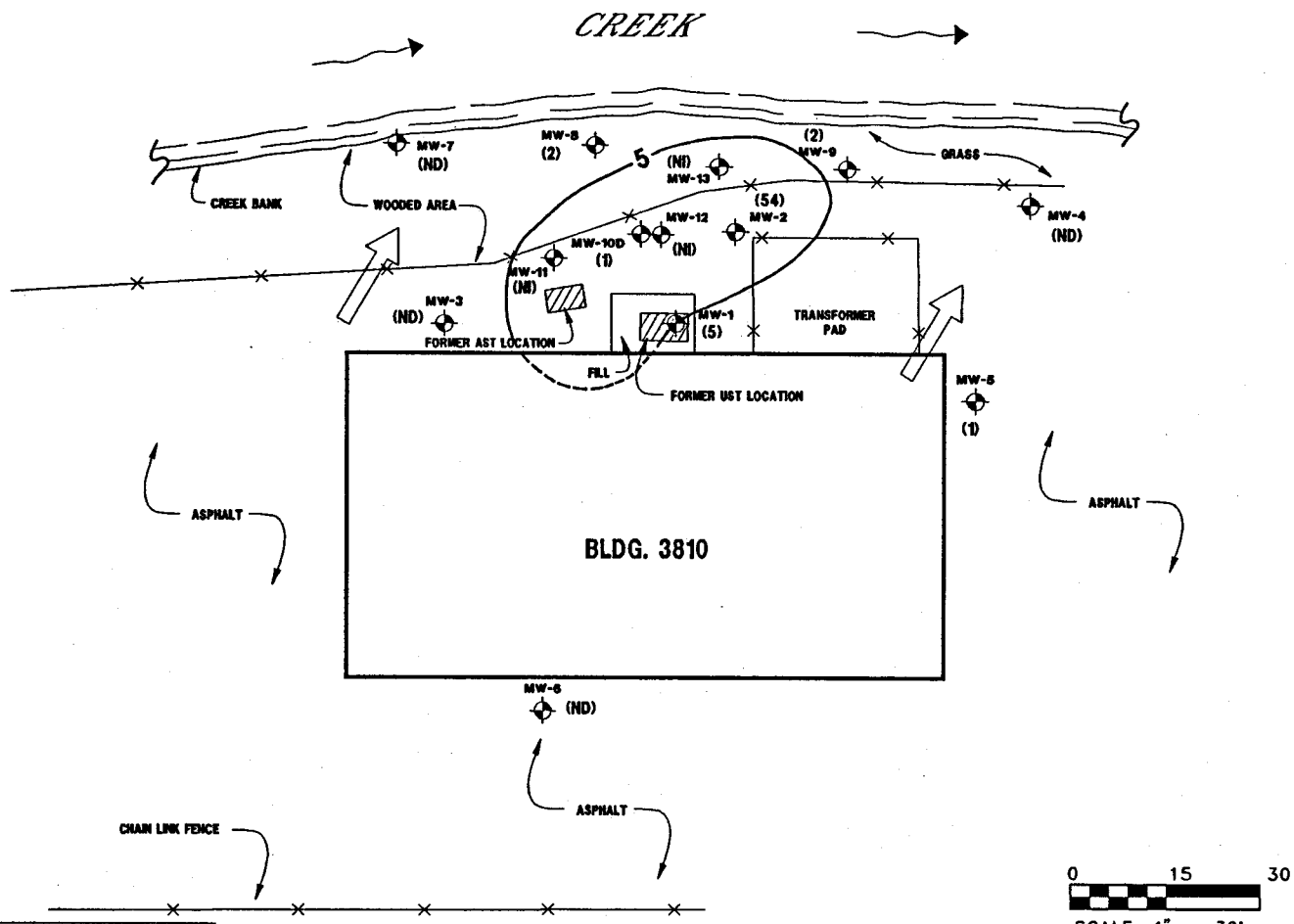
Total VOA	9
Fluorene	5
Phenanthrene	13
Total Naphthalenes	29
TRPH	29

0 15 30
SCALE: 1" = 30'

FIGURE 3-2
GROUNDWATER CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



LEGEND

MW-1	Monitoring Well Location
TRPH	Total Recoverable Petroleum Hydrocarbons
(5)	TRPH Concentration (parts per million)
ND	Denotes Not Detected
NI	Denotes Not Installed at time of sampling (target level for TRPH is 5 ppm)
—5—	Isoconcentration line (dashed where inferred)
⇦	Groundwater flow direction

FIGURE 3-3
TRPH CONTAMINATION DISTRIBUTION MAP, FEBRUARY 5, 1992

CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 3810N

NADEP PENSACOLA PENSACOLA, FLORIDA

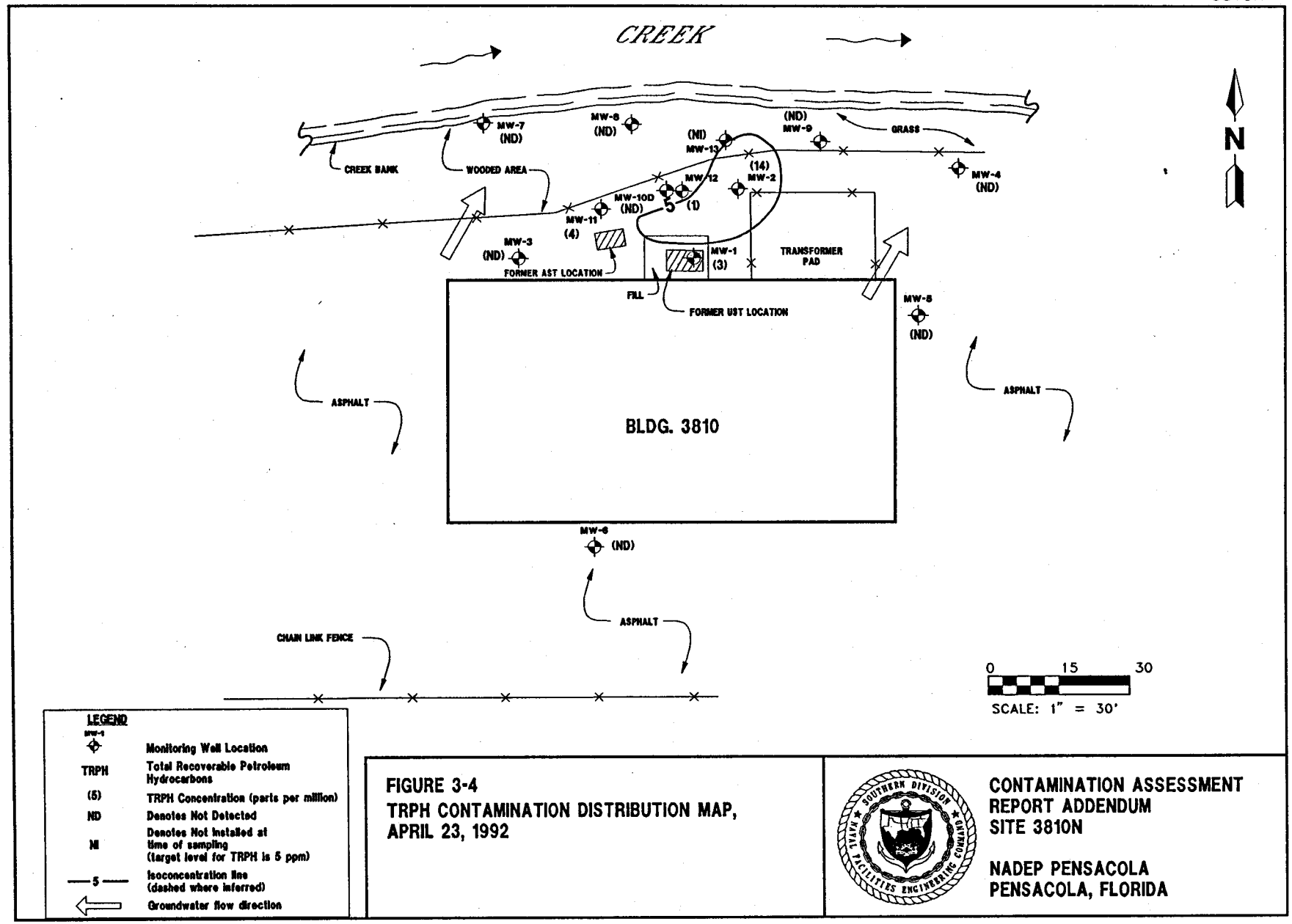


FIGURE 3-4
TRPH CONTAMINATION DISTRIBUTION MAP, APRIL 23, 1992

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA

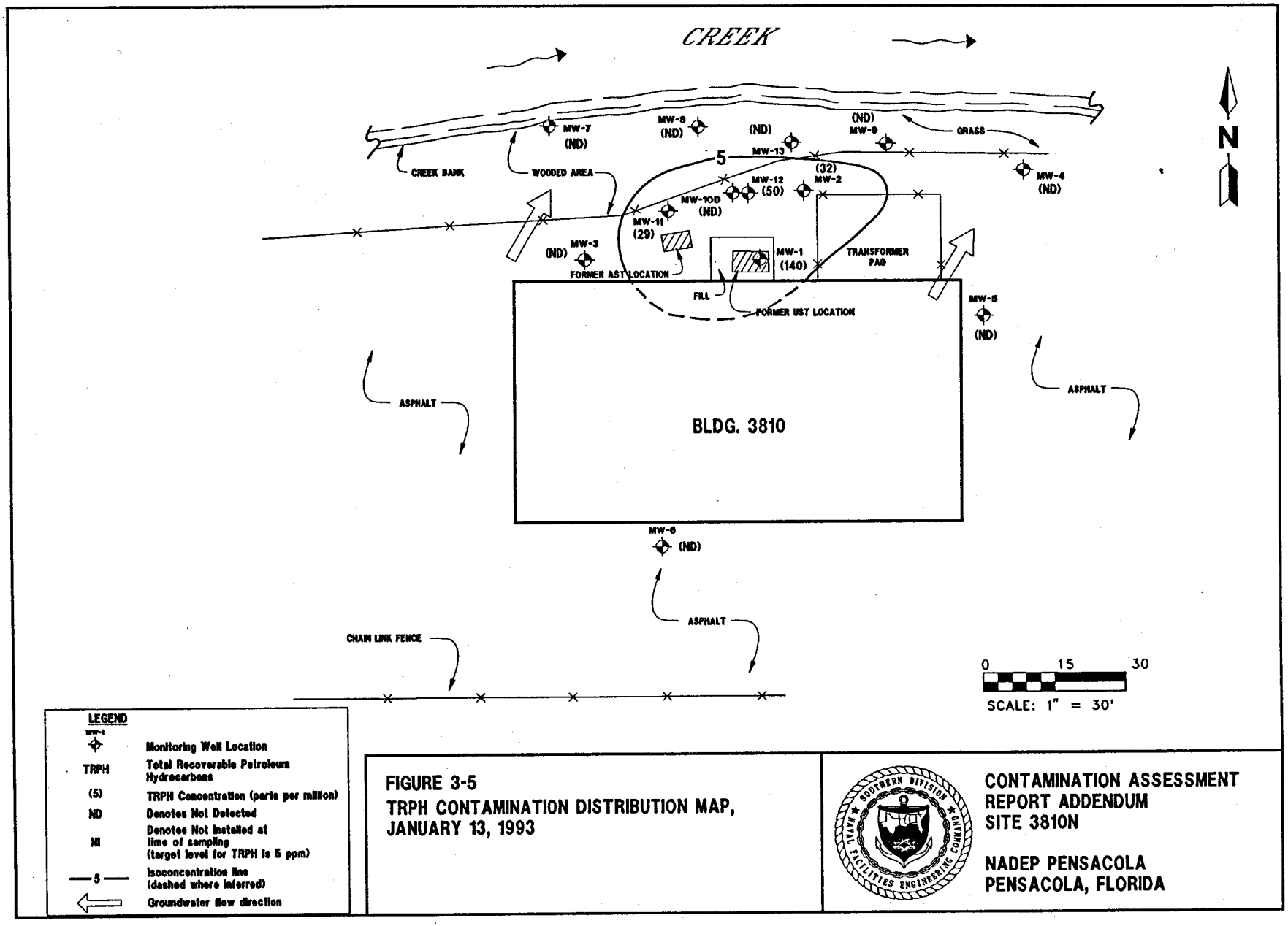
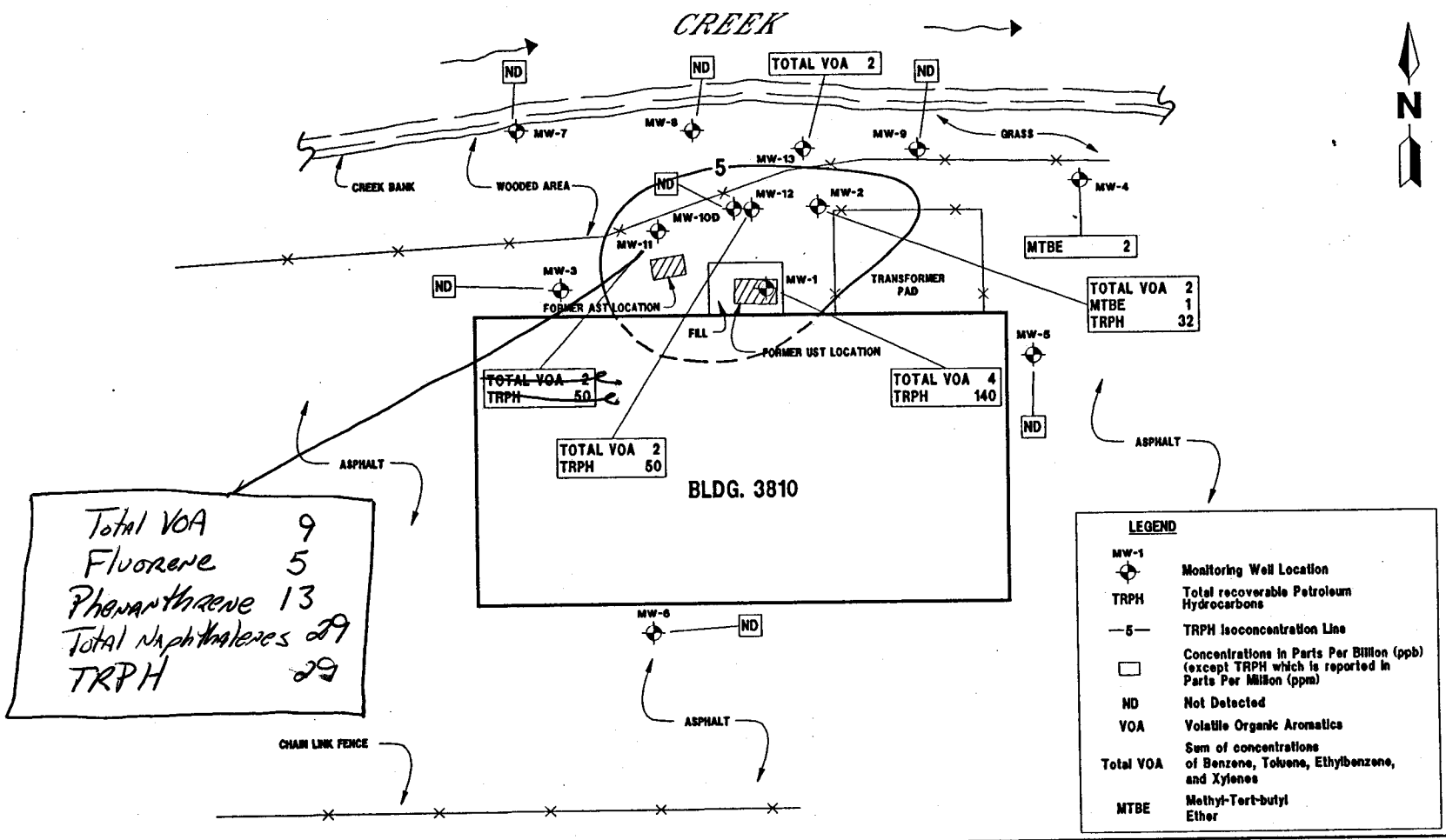


FIGURE 3-5
TRPH CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



Total VOA	9
Fluorene	5
Phenanthrene	13
Total Naphthalenes	29
TRPH	29

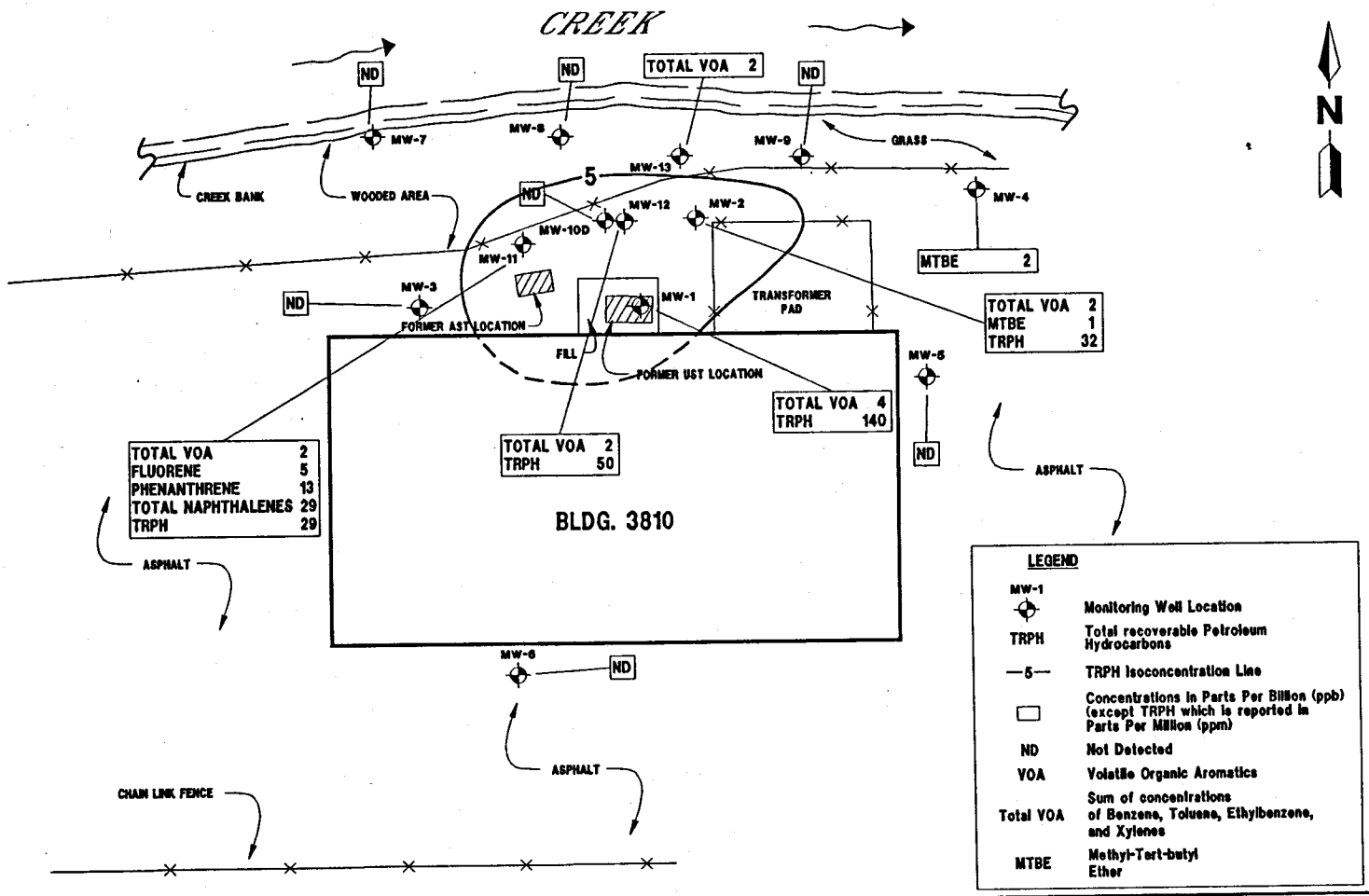
0 15 30

SCALE: 1" = 30'

EXECUTIVE SUMMARY FIGURE

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



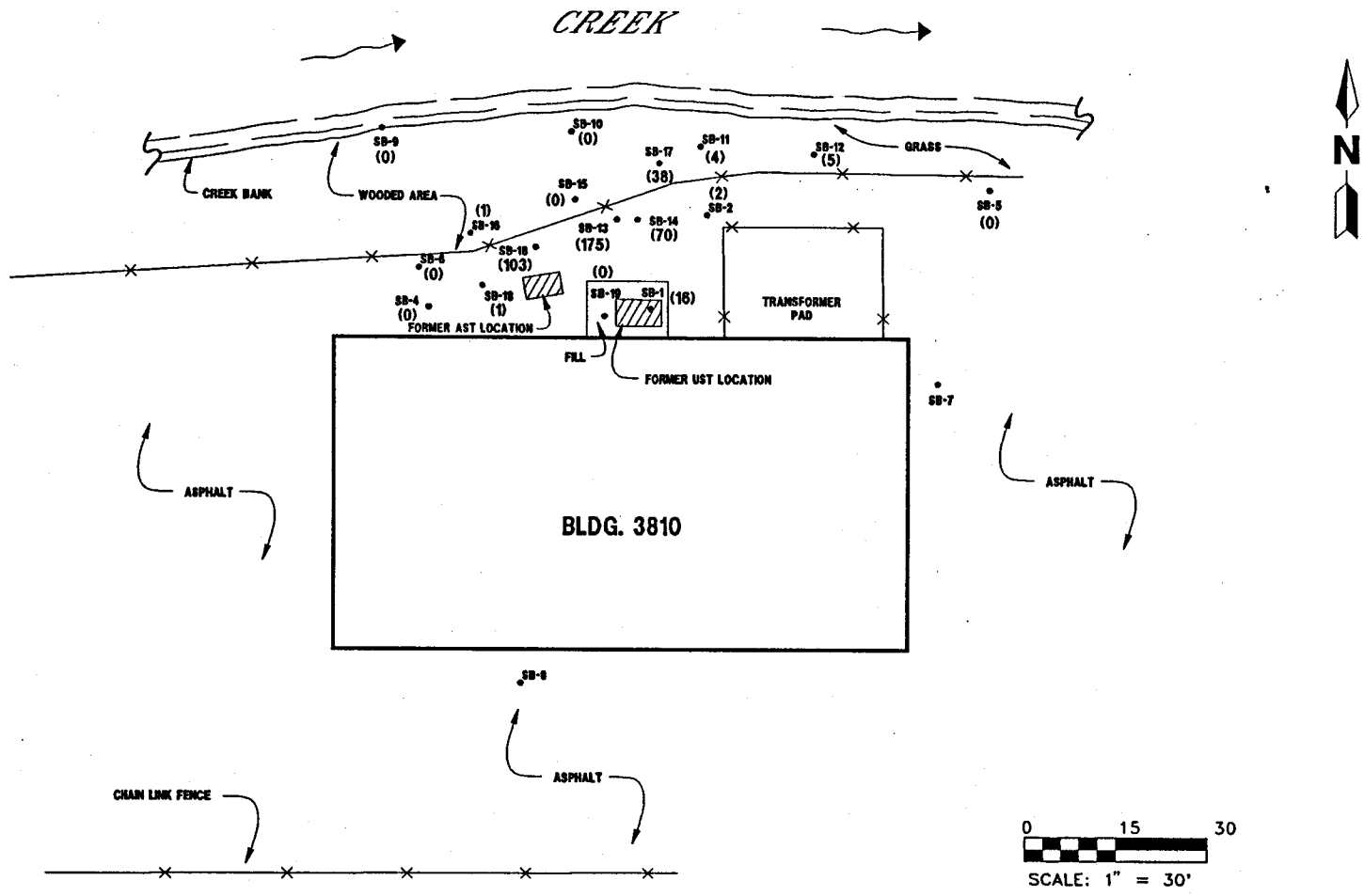
0 15 30
SCALE: 1" = 30'

EXECUTIVE SUMMARY FIGURE

SOUTHERN DIVISION NAVAL FACILITIES ENGINEERING COMMAND

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



LEGEND

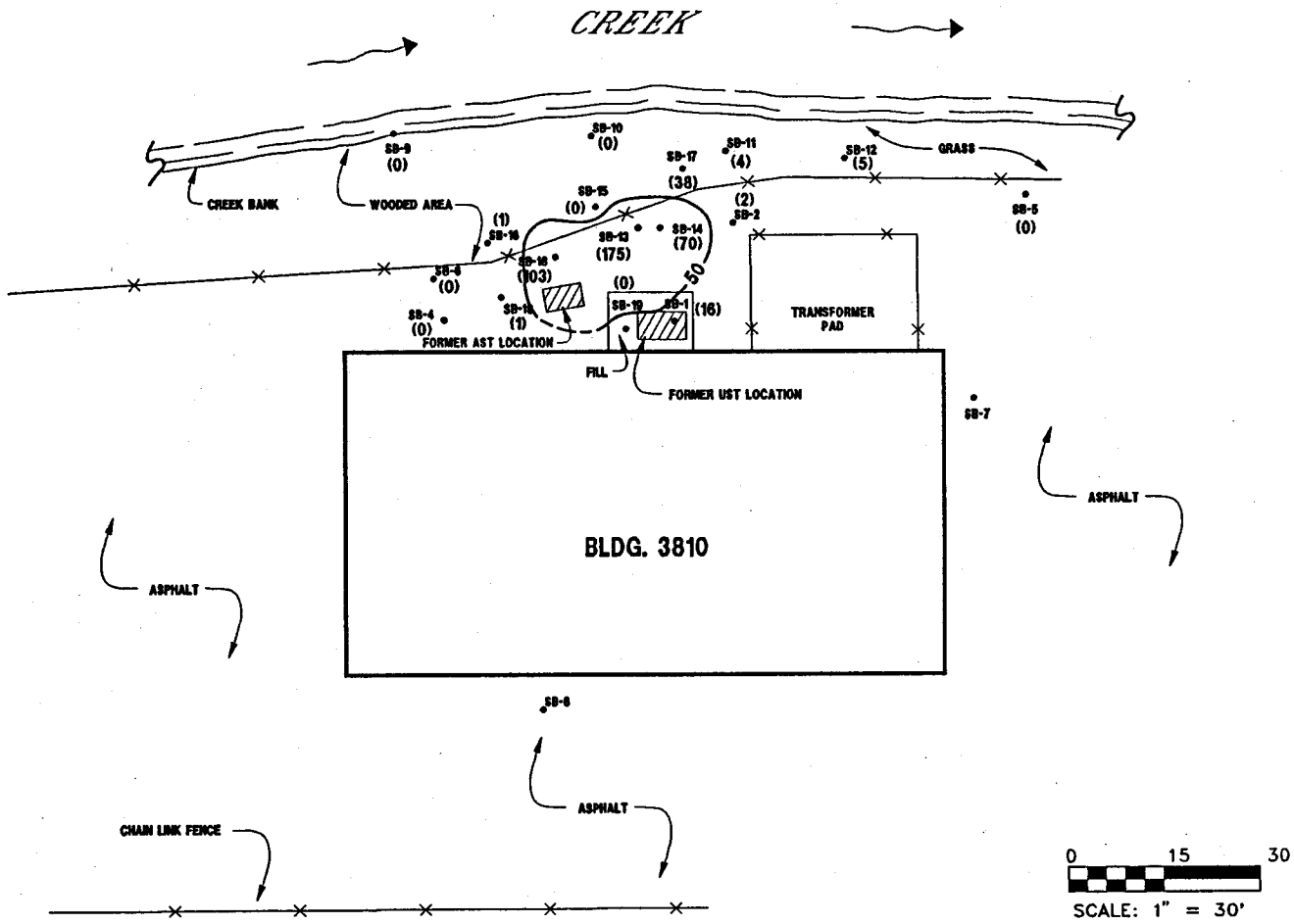
SB-1 Soil Boring Location

(4) OVA Headspace (part per million)

FIGURE 2-1
SOIL BORING LOCATIONS AND
SOIL CONTAMINATION
Distribution MAP

CONTAMINATION ASSESSMENT
REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA



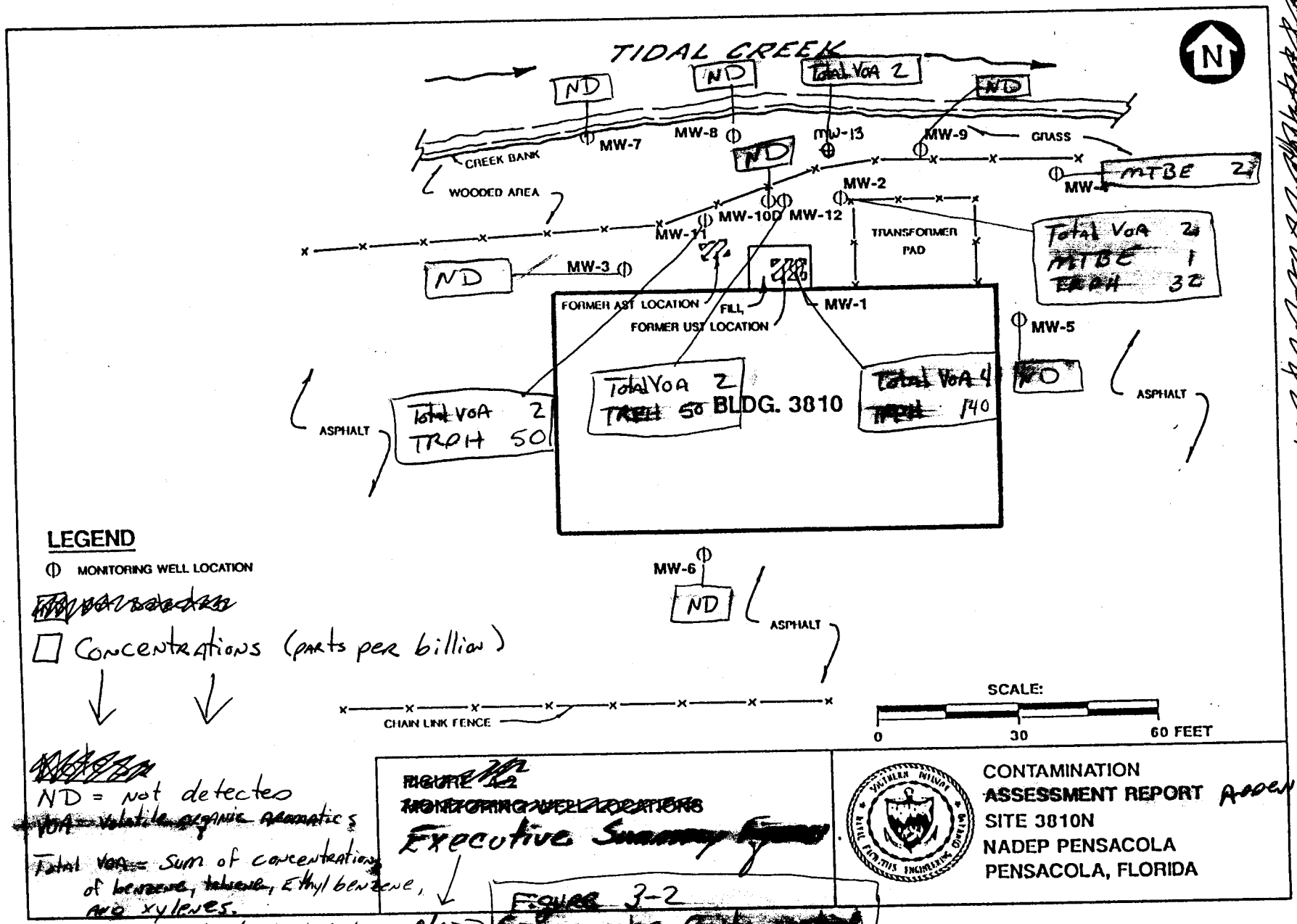
LEGEND

SB-1	Soil Boring Location
(4)	OVA Headspace (part per million)

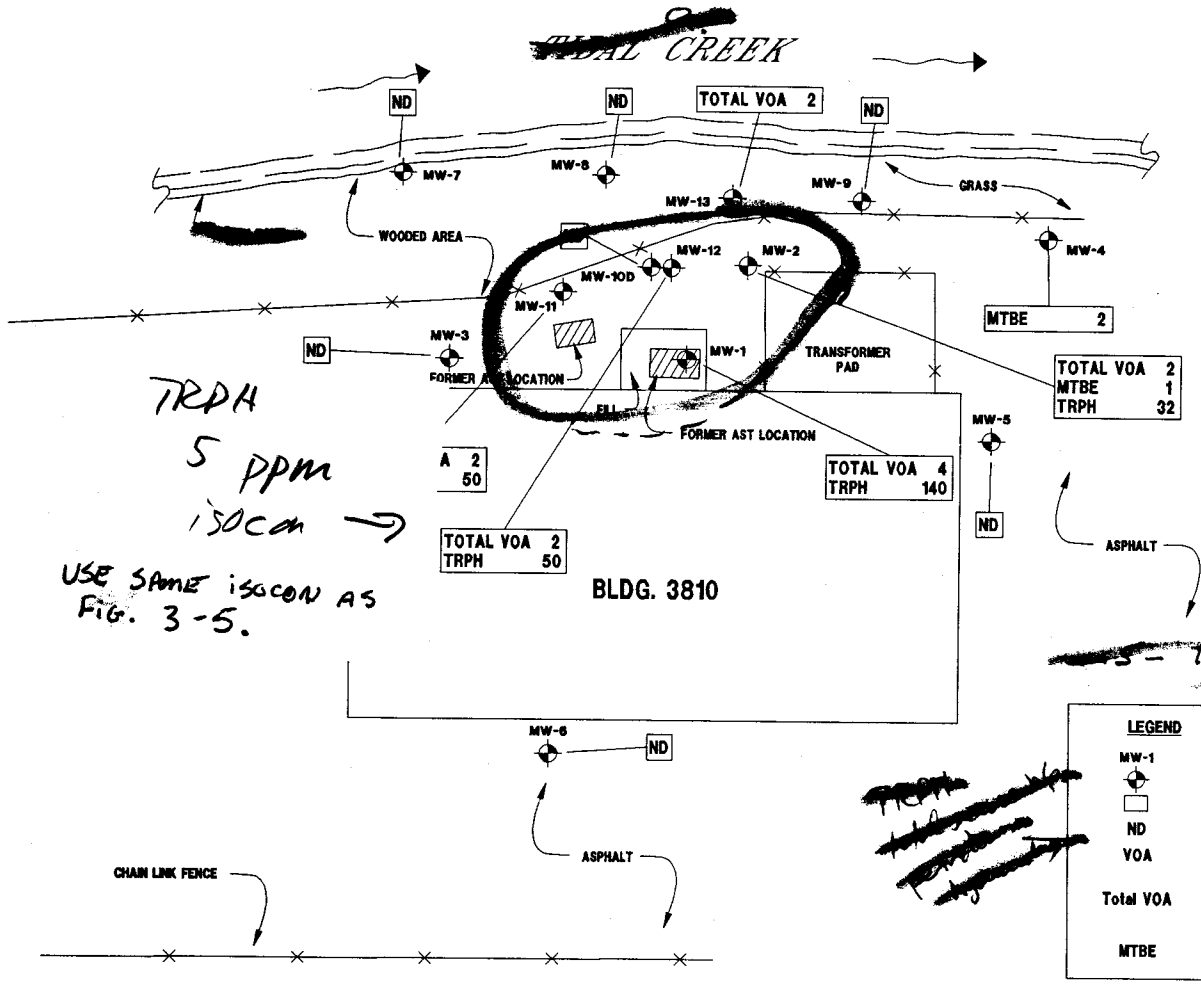
FIGURE 2-1
SOIL BORING LOCATIONS AND SOIL CONTAMINATION DISTRIBUTION MAP

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA


TIDAL CREEK
N
ND
ND
Total VOA 2
ND
MW-7
MW-8
MW-13
MW-9
GRASS
CREEK BANK
WOODED AREA
ND
MTBE 2
MW-4
MW-2
MW-10D
MW-12
MW-11
TRANSFORMER PAD
Total VOA 2
MTBE 1
TRPH 32
ND
MW-3
FORMER AST LOCATION
FILL
FORMER UST LOCATION
MW-1
MW-5
Total VOA 2
TRPH 50
BLDG. 3810
Total VOA 4
TRPH 140
ND
ASPHALT
ASPHALT
MW-6
ND
ASPHALT
CHAIN LINK FENCE
SCALE:
0
30
60 FEET
LEGEND
MONITORING WELL LOCATION
Concentrations (parts per billion)
ND = not detected
Total VOA = Sum of concentrations of benzene, toluene, Ethylbenzene, and xylenes.
MTBE = Methyl-tert-butyl Ether
Executive Summary
Figure 3-2
Groundwater Contamination Distribution Map
CONTAMINATION
ASSESSMENT REPORT Addendum
SITE 3810N
NADEP PENSACOLA
PENSACOLA, FLORIDA

ESF



LEGEND

MW-1	Monitoring Well Location
	Concentrations (parts per billion)
ND	Not Detected
VOA	Volatile Organic Aromatics
Total VOA	Sum of concentrations of Benzene, Toluene, Ethylbenzene, and Xylenes
MTBE	Methyl-Tert-butyl Ether

Except TRPH which [illegible]

0 15 30

SCALE: 1" = 30'

EXECUTIVE SUMMARY FIGURE

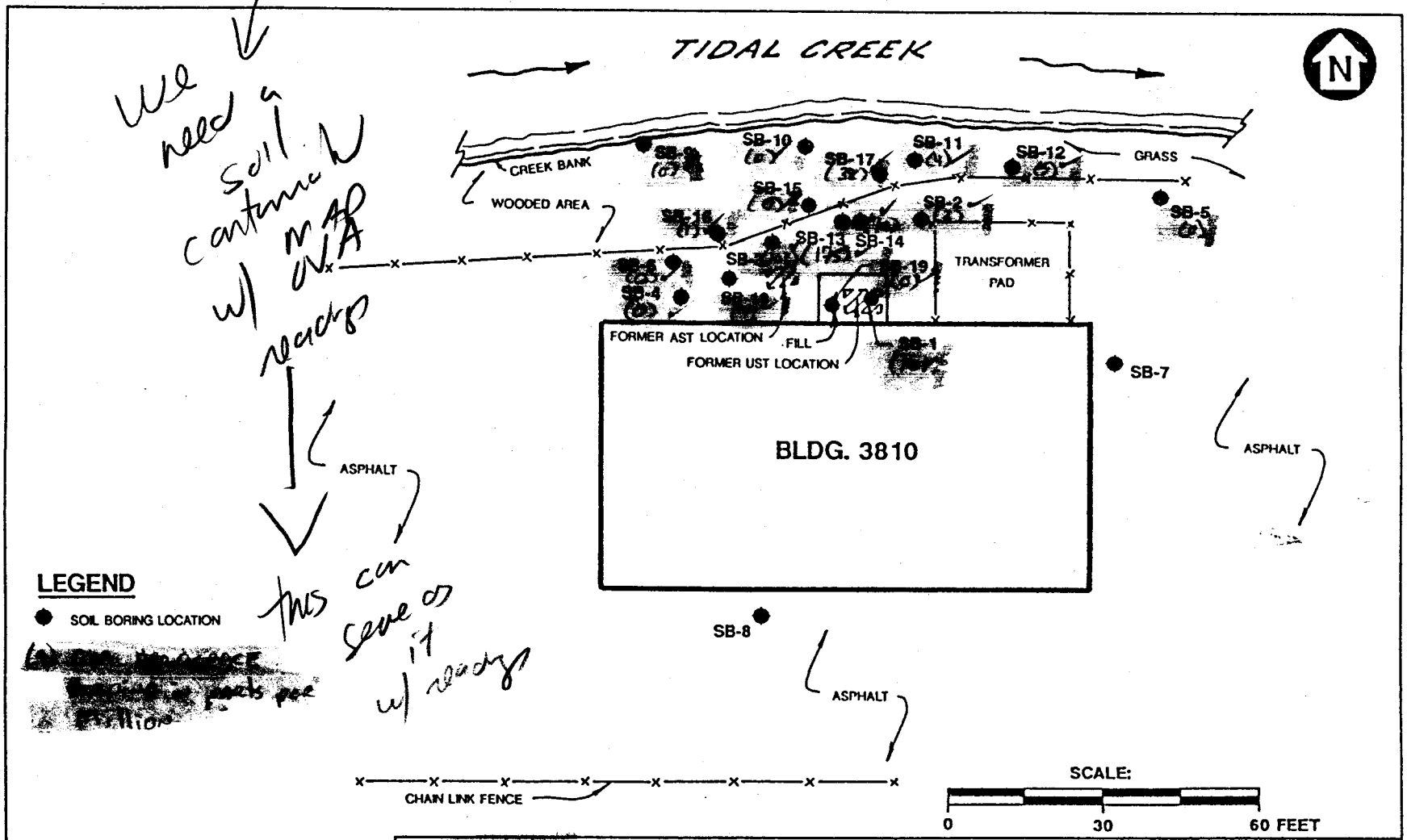
CONTAMINATION ADDENDUM

NADEP PENSACOLA
PENSACOLA, FLORIDA

2. HB

We need a soil contour w/ MAP OVA readings

this can save us it w/ readings



LEGEND

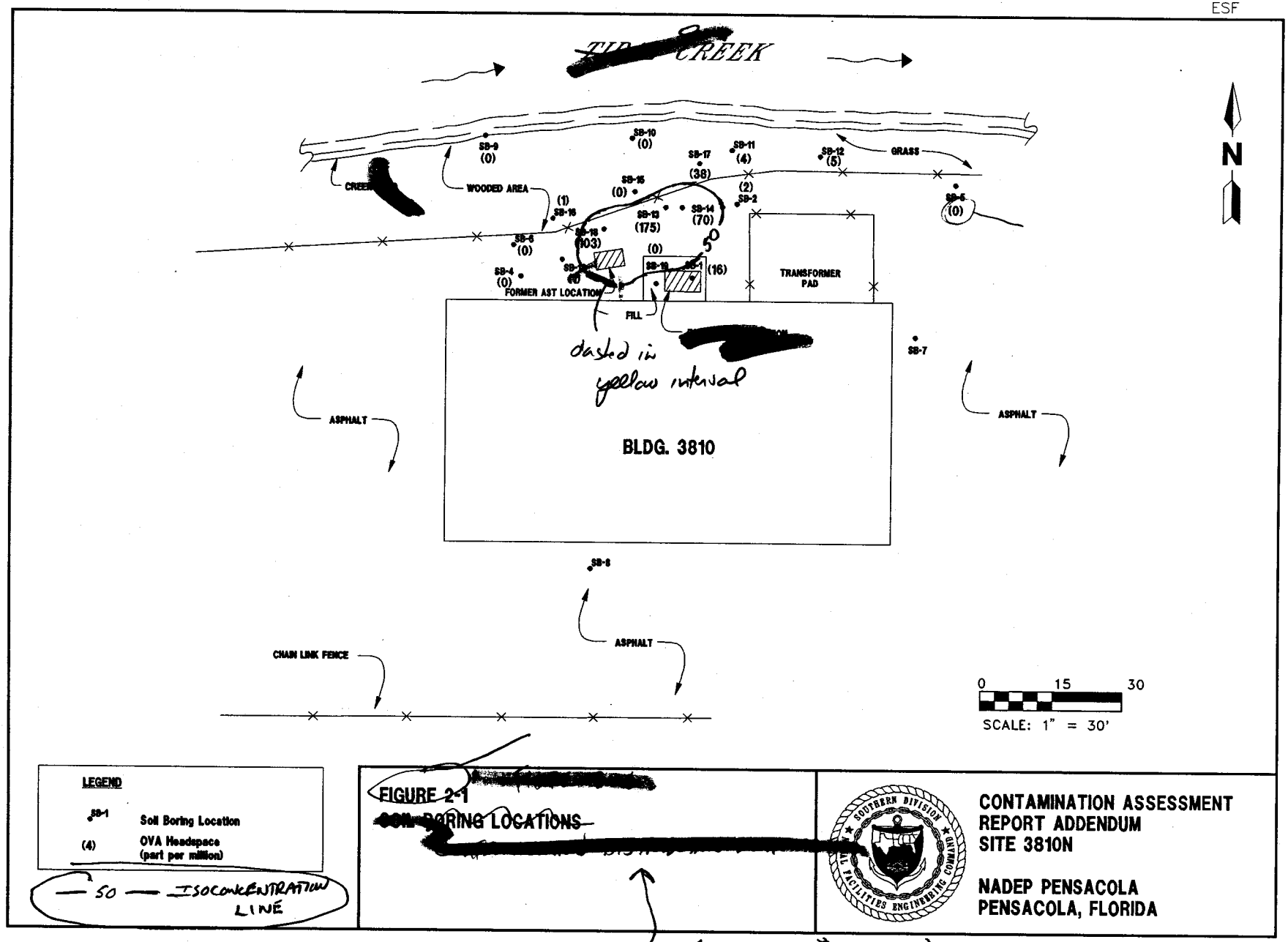
● SOIL BORING LOCATION

[redacted]

FIGURE ~~4-1~~ 2-1
SOIL BORING LOCATIONS

CONTAMINATION
ASSESSMENT REPORT Aquarium
SITE 3810N
NADEP PENSACOLA
PENSACOLA, FLORIDA

ESF



[redacted]

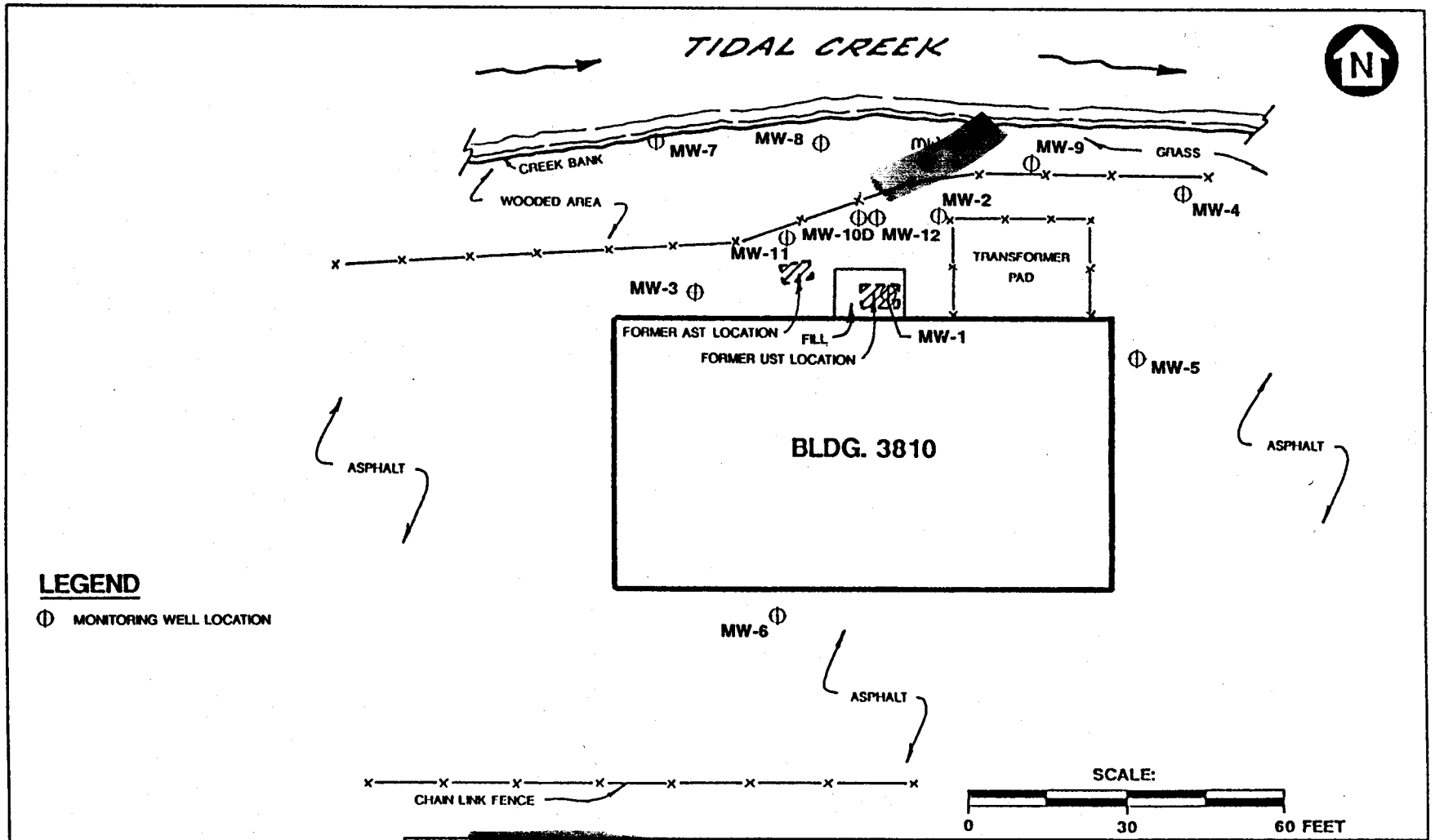
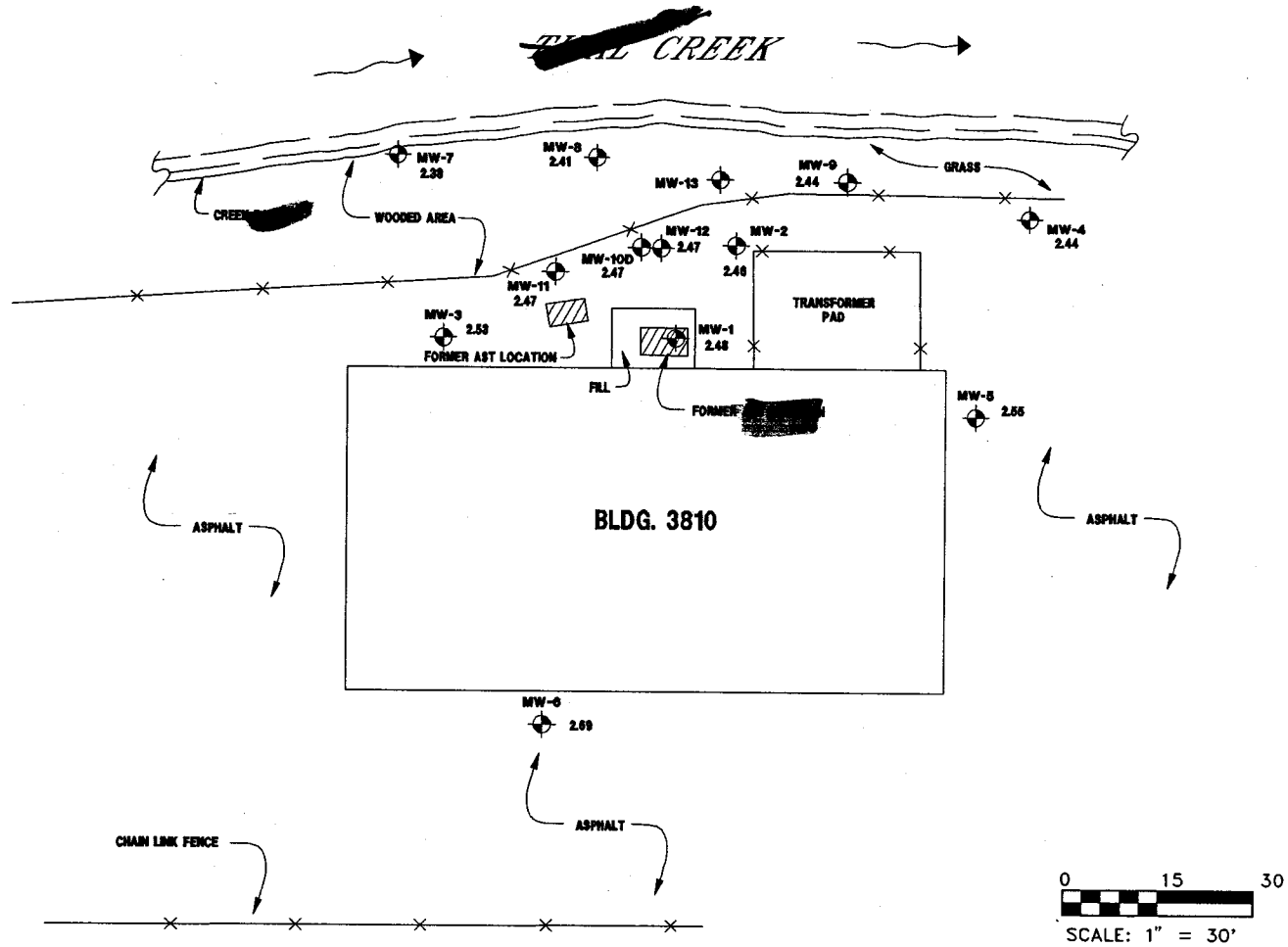


FIGURE [redacted]
MONITORING WELL LOCATIONS

CONTAMINATION
ASSESSMENT REPORT [redacted]
SITE 3810N
NADEP PENSACOLA
PENSACOLA, FLORIDA

ESF



LEGEND

MW-1 — Monitoring Well Location

FIGURE 2-2
MONITORING WELL LOCATIONS

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

NADEP PENSACOLA
PENSACOLA, FLORIDA

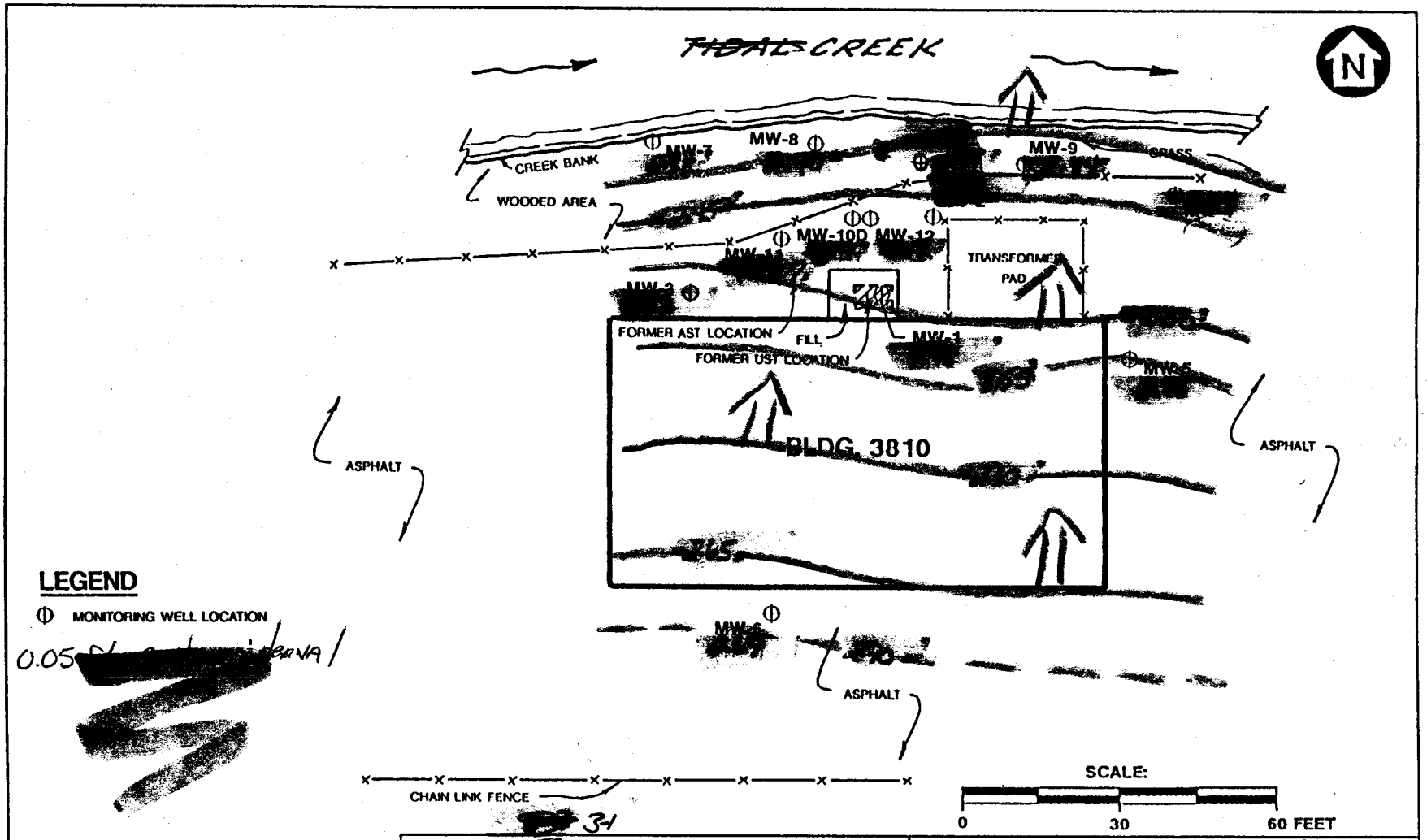


FIGURE [redacted]

~~MONITORING WELL LOCATIONS~~

~~GROUND WATER FLOW DIRECTION~~

January 13, 1993

CONTAMINATION ASSE[redacted]

SITE 3810N

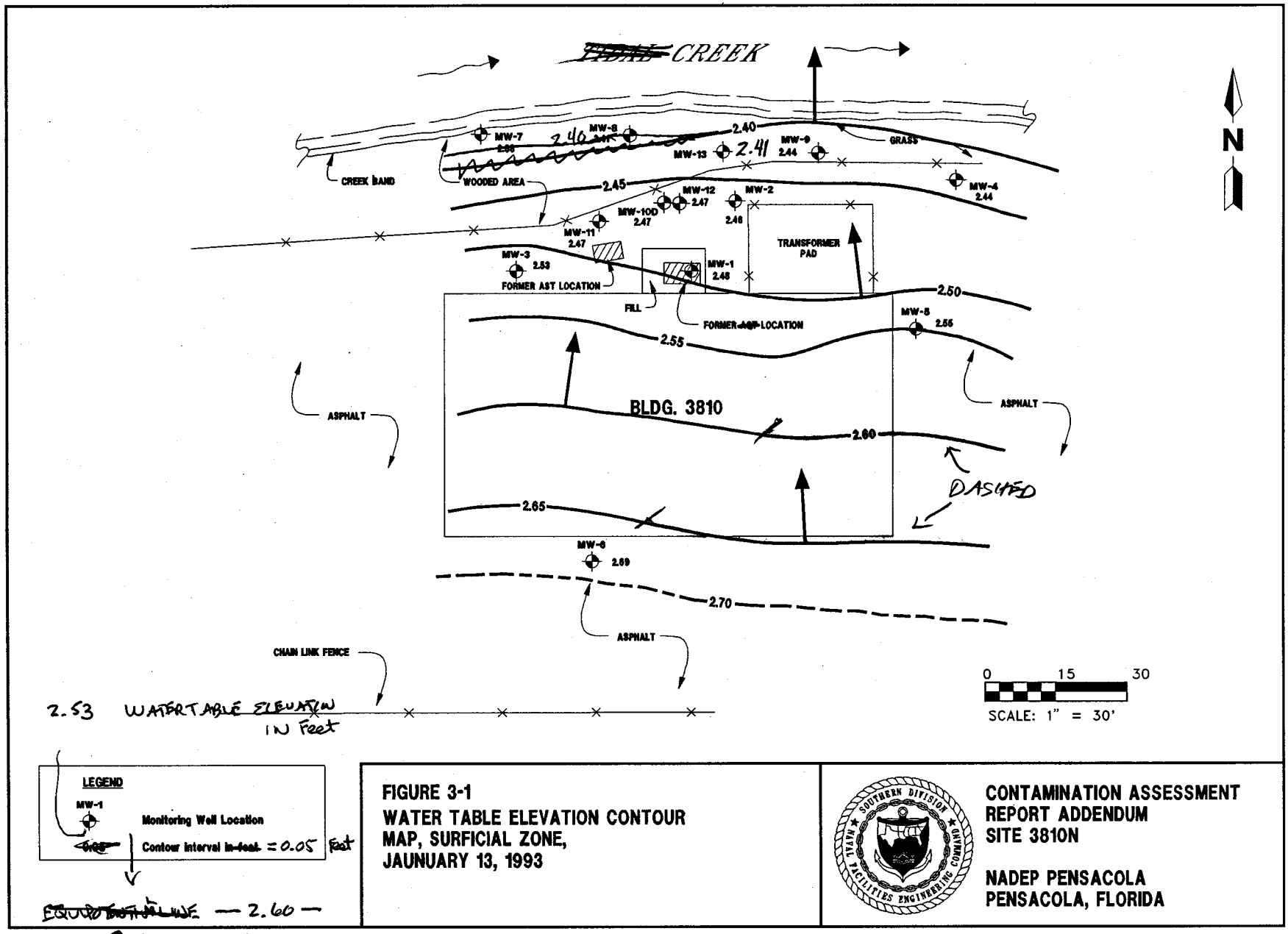
NADEP PENSACOLA

PENSACOLA, FLORIDA

[redacted] MAP,

[redacted] BONC,

ESF



2.53 WATERTABLE ELEVATION IN Feet

LEGEND

MW-1 Monitoring Well Location

Contour Interval = 0.05 Feet

— 2.60 — DASHED where inferred

EQUIPOTENTIAL LINE

FIGURE 3-1
WATER TABLE ELEVATION CONTOUR MAP, SURFICIAL ZONE, JAUNUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 3810N

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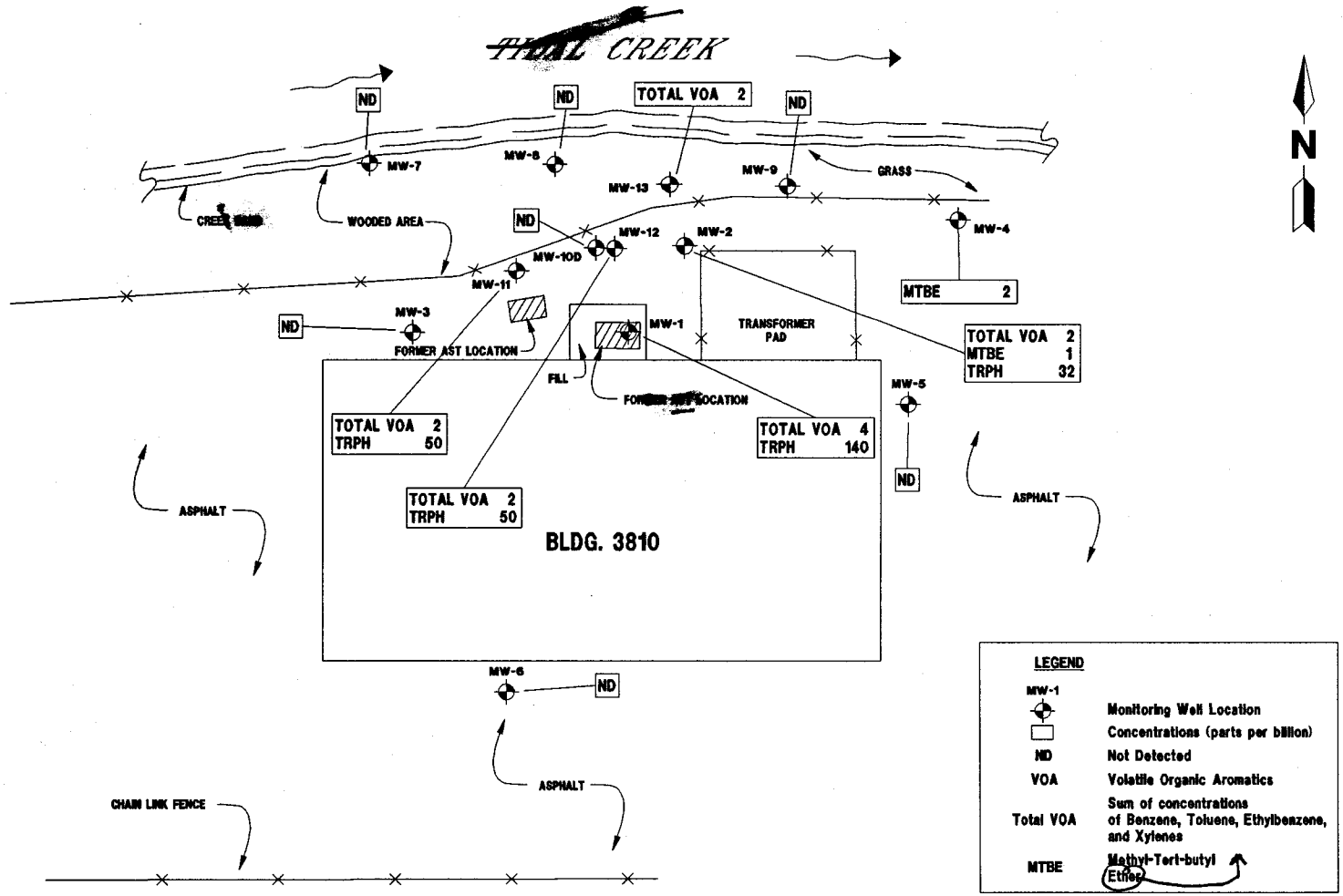

FIGURE 3-2
GROUNDWATER CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION [redacted] REPORT
ADDENDUM
[redacted] 5910 N
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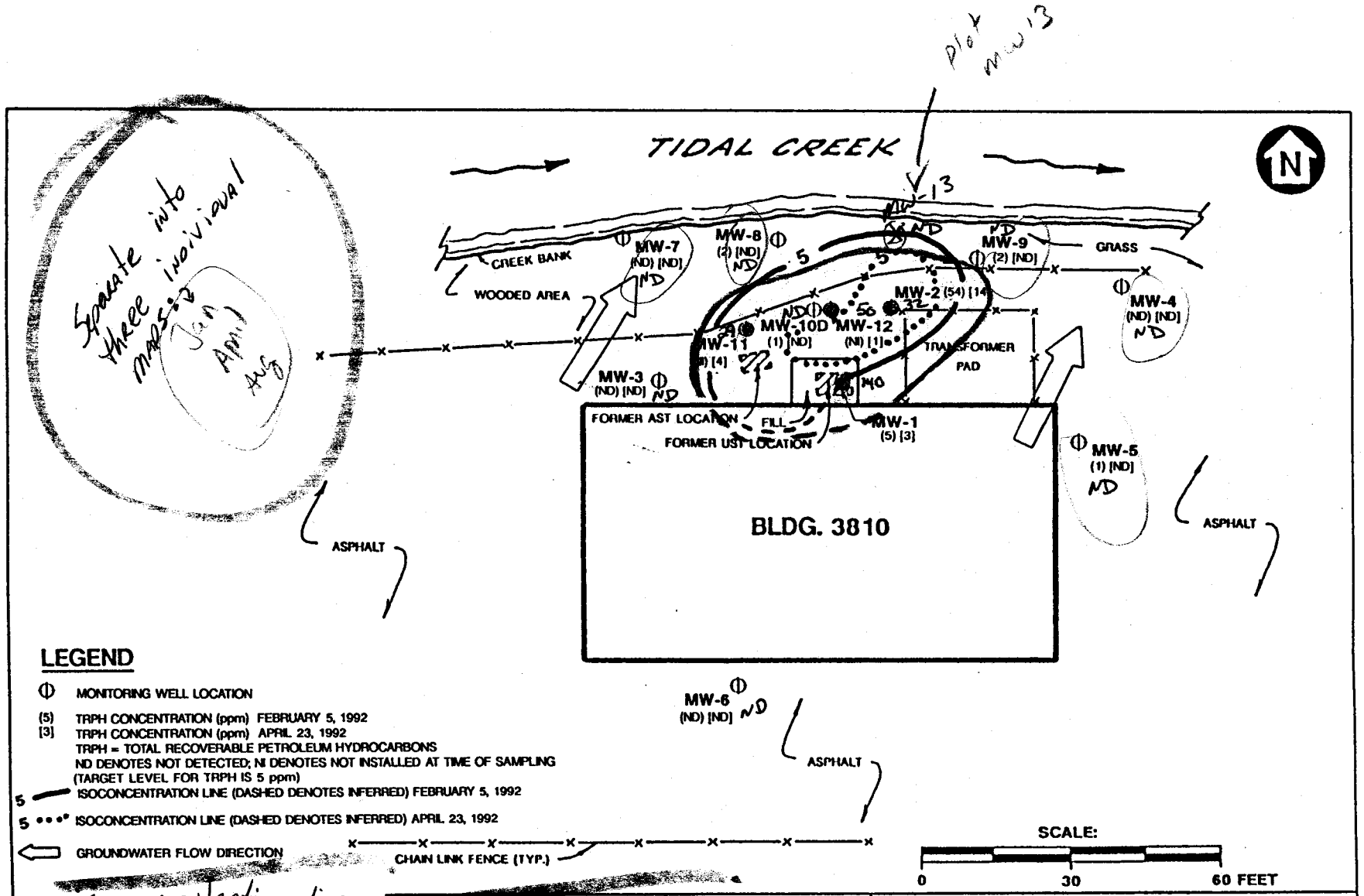

FIGURE [redacted]
TRPH CONTAMINATION DISTRIBUTION MAP
FEBRUARY [redacted] 23, 1992 [redacted]

CONTAMINATION ASSESSMENT REPORT
SITE 3810N
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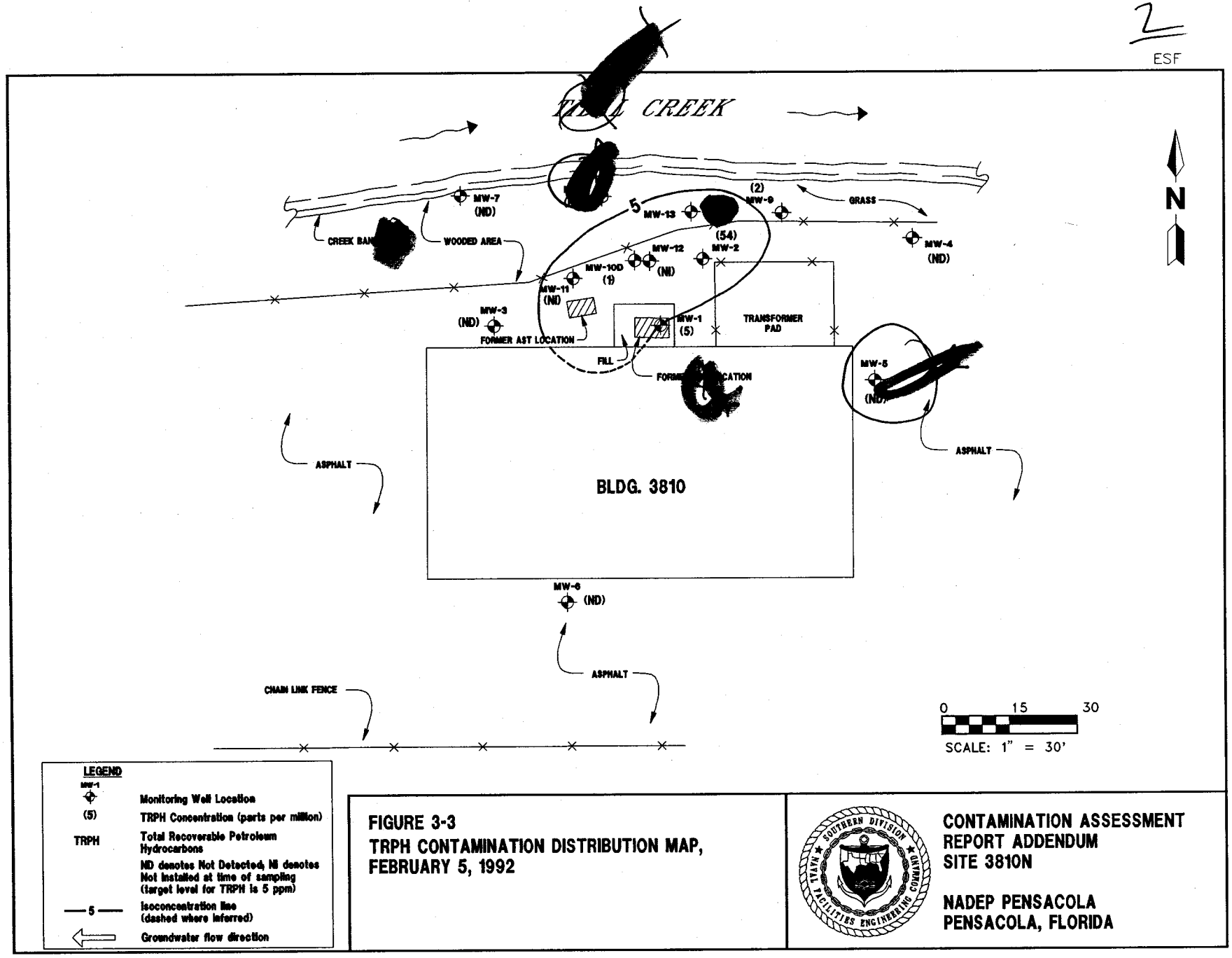

FIGURE 3-3
TRPH CONTAMINATION DISTRIBUTION MAP, FEBRUARY 5, 1992

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

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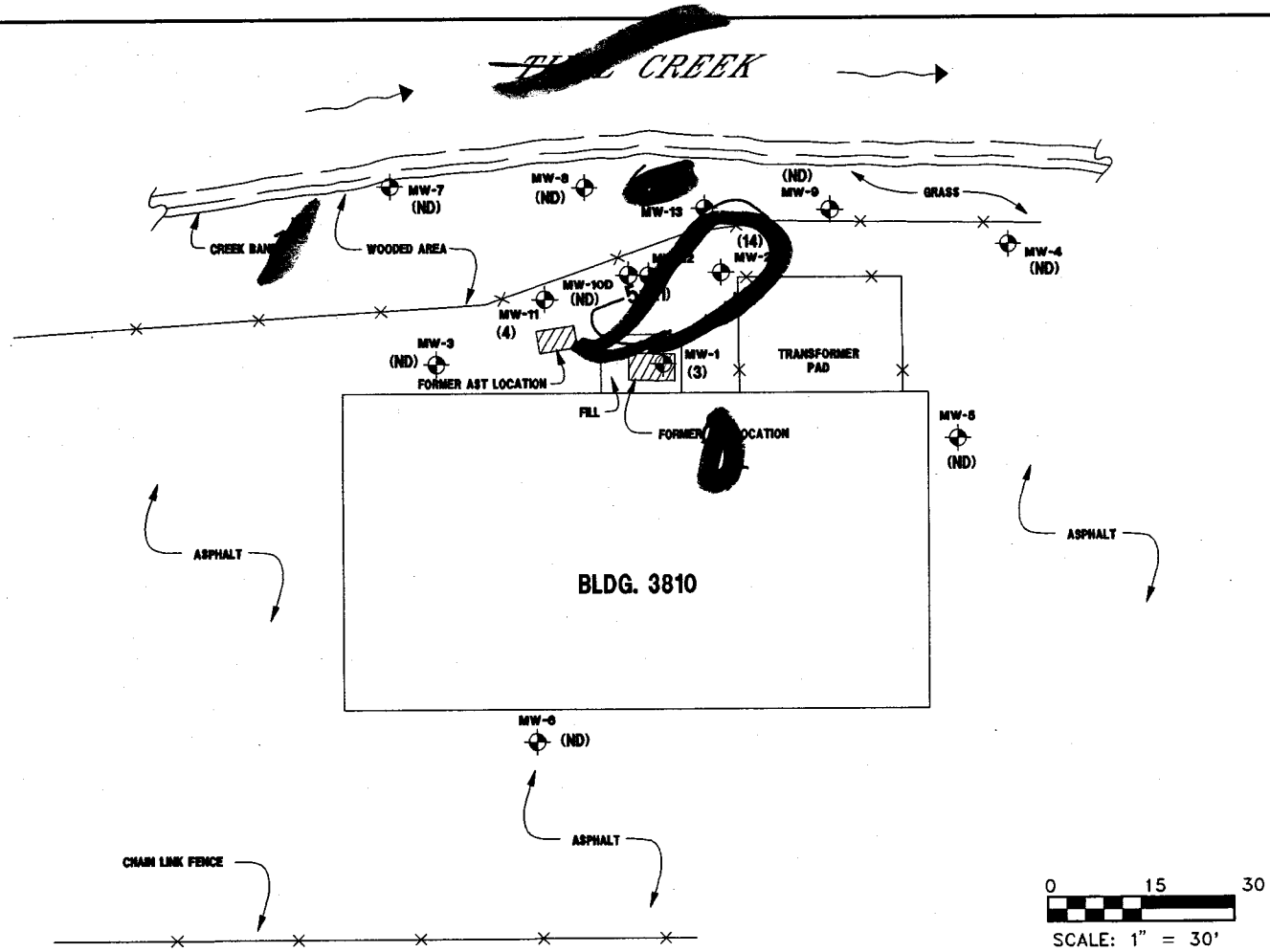
ESF



LEGEND

MW-1	Monitoring Well Location
(5)	TRPH Concentration (parts per million)
TRPH	Total Recoverable Petroleum Hydrocarbons
	ND denotes Not Detected; NI denotes Not Installed at time of sampling (target level for TRPH is 5 ppm)
—5—	Isoconcentration line (dashed where inferred)
⇦	Groundwater flow direction

FIGURE 3-4
TRPH CONTAMINATION DISTRIBUTION MAP, APRIL 23, 1992

CONTAMINATION ASSESSMENT REPORT ADDENDUM SITE 3810N

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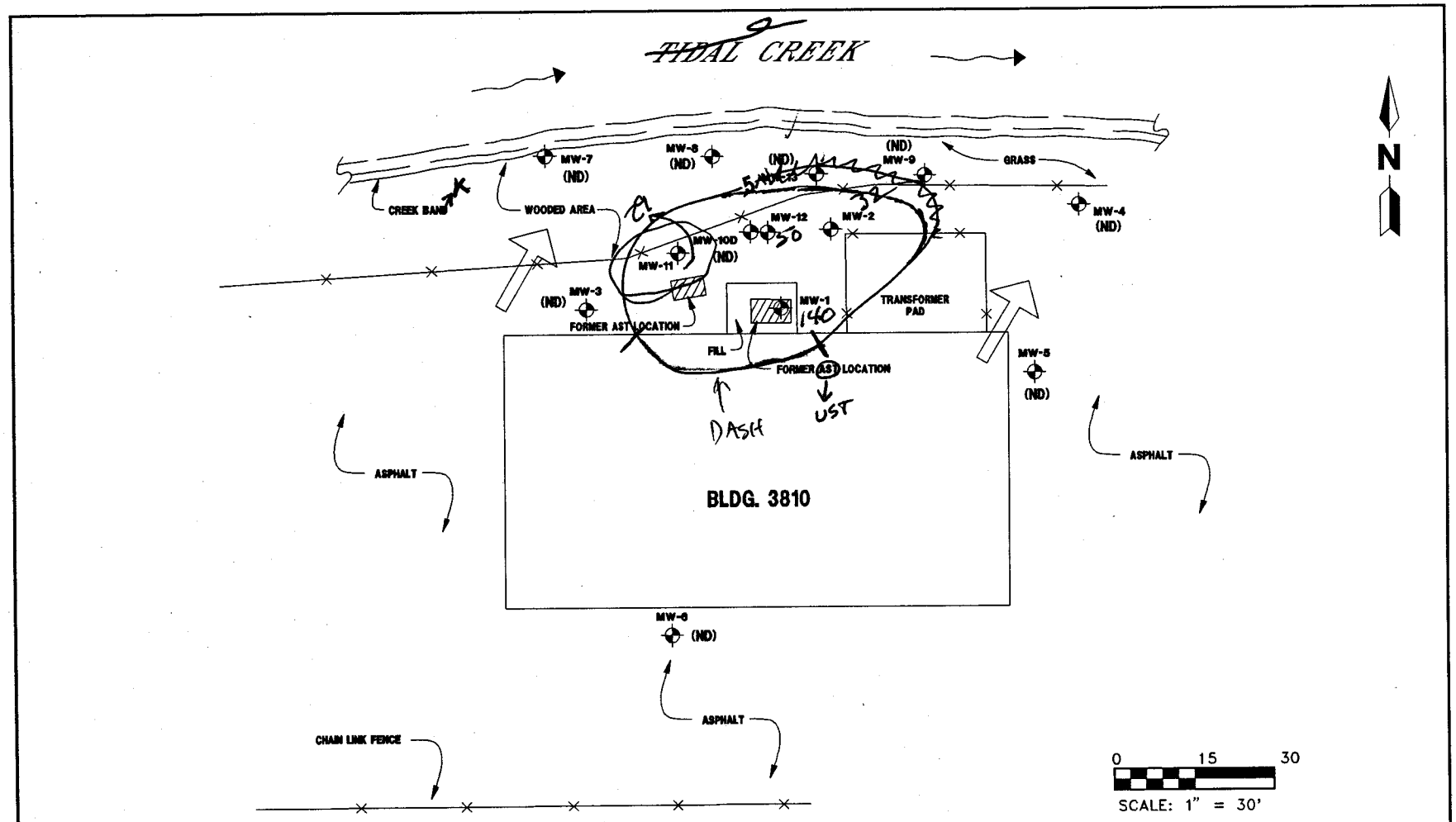
ESF



LEGEND

MW-1	Monitoring Well Location
(5)	TRPH Concentration (parts per million)
TRPH	Total Recoverable Petroleum Hydrocarbons
	ND denotes Not Detected, NI denotes Not Installed at time of sampling (target level for TRPH is 5 ppm)
—5—	Isoconcentration line (dashed where inferred)
⇦	Groundwater flow direction

FIGURE 3-5
TRPH CONTAMINATION DISTRIBUTION MAP, JANUARY 13, 1993

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

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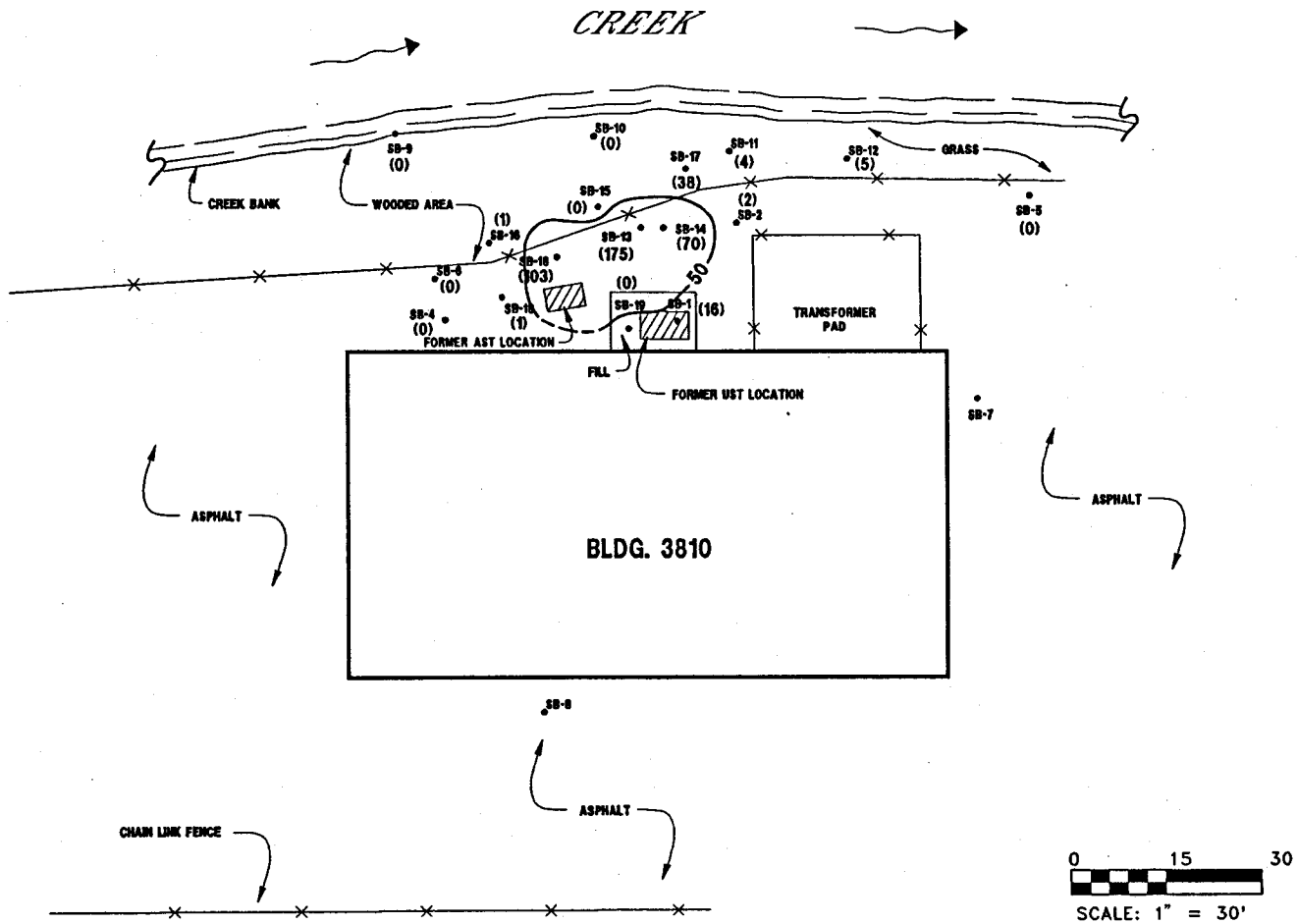

LEGEND

SB-1	Soil Boring Location
(4)	OVA Headspace (part per million)
—50—	Isoconcentration Line

FIGURE 3-6
SOIL CONTAMINATION DISTRIBUTION MAP

CONTAMINATION ASSESSMENT REPORT ADDENDUM
SITE 3810N

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