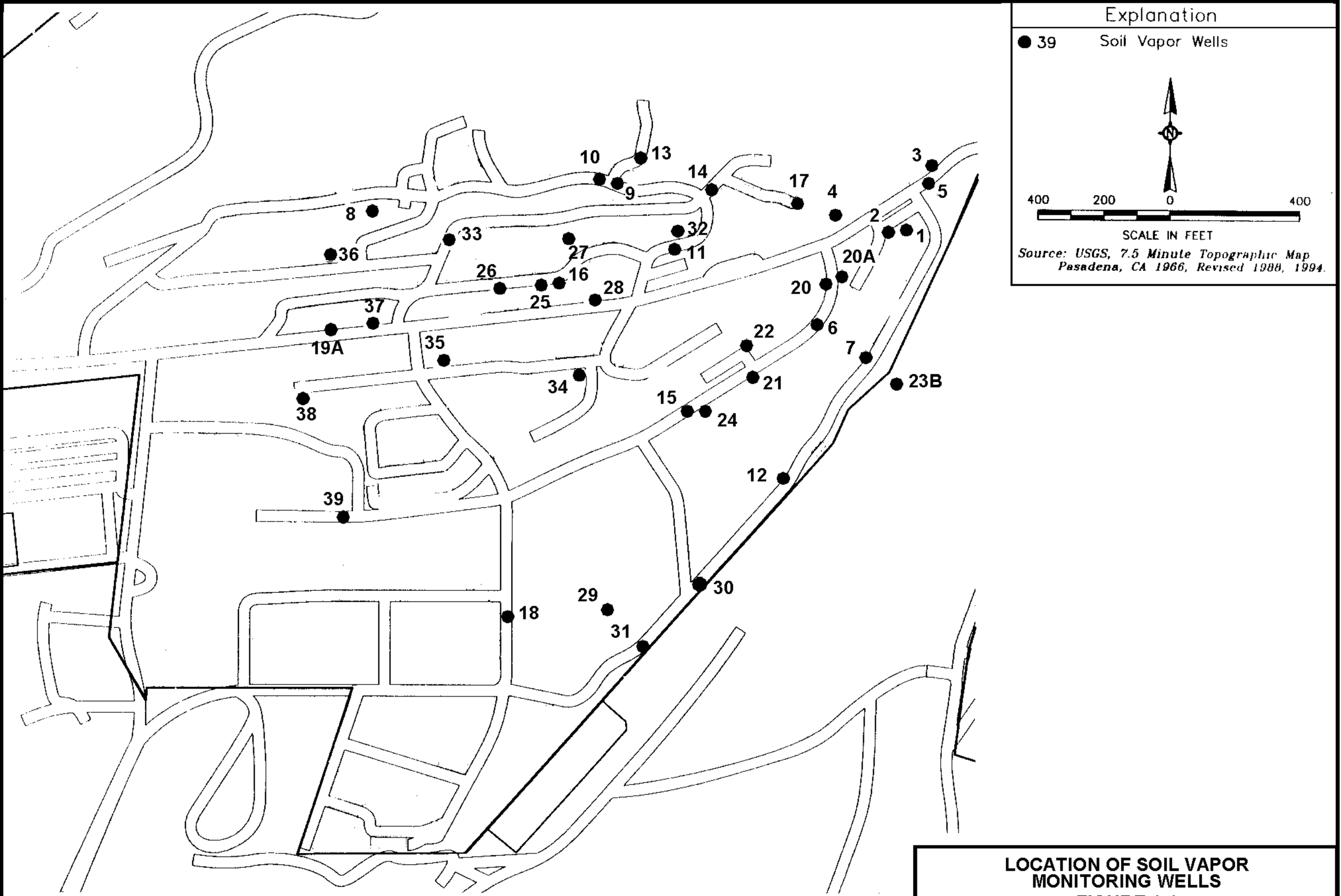
# FIGURES

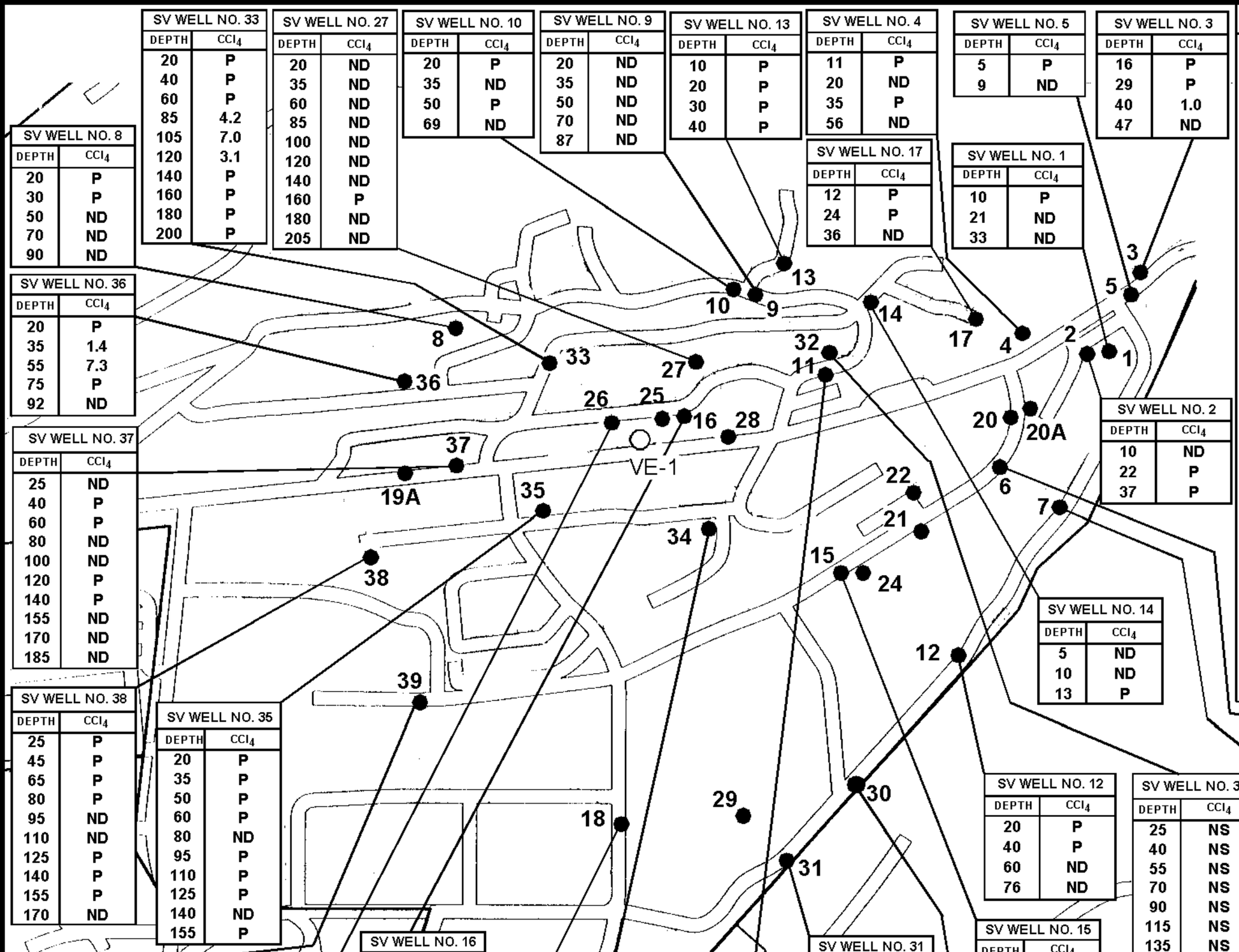



**LOCATION OF SOIL VAPOR MONITORING WELLS**
**FIGURE 1-1**

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATION

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048




## Explanation

| | |
|---|---|
| ● 39 | Soil Vapor Wells Sampled |
| ○ VE-1 | Vapor Extraction Well |
| $CCl_4$ | Carbon Tetrachloride |
| ND | Non-Detect @ Laboratory Detection Limit of 1.0 $\mu g/L$-Vapor |
| P | Sample Port Plugged: No Sample Collected |
| NS | Not Sampled at that Depth |

NOTE:

Concentrations in $\mu g/L$-Vapor

400 200 0 400

SCALE IN FEET

*Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.*

**SV WELL NO. 33**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 85 | 4.2 |
| 105 | 7.0 |
| 120 | 3.1 |
| 140 | P |
| 160 | P |
| 180 | P |
| 200 | P |

**SV WELL NO. 27**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 35 | ND |
| 60 | ND |
| 85 | ND |
| 100 | ND |
| 120 | ND |
| 140 | ND |
| 160 | P |
| 180 | ND |
| 205 | ND |

**SV WELL NO. 10**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 35 | ND |
| 50 | P |
| 69 | ND |

**SV WELL NO. 9**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 35 | ND |
| 50 | ND |
| 70 | ND |
| 87 | ND |

**SV WELL NO. 13**

| DEPTH | $CCl_4$ |
|---|---|
| 10 | P |
| 20 | P |
| 30 | P |
| 40 | P |

**SV WELL NO. 4**

| DEPTH | $CCl_4$ |
|---|---|
| 11 | P |
| 20 | ND |
| 35 | P |
| 56 | ND |

**SV WELL NO. 5**

| DEPTH | $CCl_4$ |
|---|---|
| 5 | P |
| 9 | ND |

**SV WELL NO. 3**

| DEPTH | $CCl_4$ |
|---|---|
| 16 | P |
| 29 | P |
| 40 | 1.0 |
| 47 | ND |

**SV WELL NO. 8**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 30 | P |
| 50 | ND |
| 70 | ND |
| 90 | ND |

**SV WELL NO. 17**

| DEPTH | $CCl_4$ |
|---|---|
| 12 | P |
| 24 | P |
| 36 | ND |

**SV WELL NO. 1**

| DEPTH | $CCl_4$ |
|---|---|
| 10 | P |
| 21 | ND |
| 33 | ND |

**SV WELL NO. 36**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 35 | 1.4 |
| 55 | 7.3 |
| 75 | P |
| 92 | ND |

**SV WELL NO. 2**

| DEPTH | $CCl_4$ |
|---|---|
| 10 | ND |
| 22 | P |
| 37 | P |

**SV WELL NO. 37**

| DEPTH | $CCl_4$ |
|---|---|
| 25 | ND |
| 40 | P |
| 60 | P |
| 80 | ND |
| 100 | ND |
| 120 | P |
| 140 | P |
| 155 | ND |
| 170 | ND |
| 185 | ND |

**SV WELL NO. 14**

| DEPTH | $CCl_4$ |
|---|---|
| 5 | ND |
| 10 | ND |
| 13 | P |

**SV WELL NO. 38**

| DEPTH | $CCl_4$ |
|---|---|
| 25 | P |
| 45 | P |
| 65 | P |
| 80 | P |
| 95 | ND |
| 110 | ND |
| 125 | P |
| 140 | P |
| 155 | P |
| 170 | ND |

**SV WELL NO. 35**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 35 | P |
| 50 | P |
| 60 | P |
| 80 | ND |
| 95 | P |
| 110 | P |
| 125 | P |
| 140 | ND |
| 155 | P |

**SV WELL NO. 6**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | P |
| 77 | ND |
| 96 | ND |

**SV WELL NO. 12**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | P |
| 60 | ND |
| 76 | ND |

**SV WELL NO. 32**

| DEPTH | $CCl_4$ |
|---|---|
| 25 | NS |
| 40 | NS |
| 55 | NS |
| 70 | NS |
| 90 | NS |
| 115 | NS |
| 135 | NS |
| 155 | 3.9 |
| 180 | NS |
| 195 | NS |

**SV WELL NO. 7**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 35 | ND |

**SV WELL NO. 39**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 35 | P |
| 50 | ND |
| 70 | ND |
| 85 | ND |
| 100 | ND |
| 110 | P |
| 120 | P |
| 130 | ND |

**SV WELL NO. 26**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 35 | P |
| 55 | P |
| 80 | P |
| 100 | P |
| 115 | 2.5 |
| 140 | ND |
| 160 | ND |
| 180 | P |
| 195 | P |

**SV WELL NO. 16**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 80 | P |
| 95 | P |

**SV WELL NO. 18**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | P |
| 55 | P |
| 70 | P |
| 85 | P |

**SV WELL NO. 34**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | NS |
| 35 | NS |
| 50 | NS |
| 65 | NS |
| 80 | NS |
| 95 | NS |
| 108 | NS |
| 118 | P |

**SV WELL NO. 11**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 40 | P |
| 60 | P |
| 80 | P |
| 96 | ND |

**SV WELL NO. 31**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | ND |
| 35 | ND |
| 45 | P |
| 55 | ND |
| 65 | ND |

**SV WELL NO. 15**

| DEPTH | $CCl_4$ |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | ND |
| 75 | ND |
| 90 | ND |

**SV WELL NO. 30**

| DEPTH | $CCl_4$ |
|---|---|
| 17 | ND |
| 30 | ND |
| 40 | ND |
| 50 | ND |
| 65 | ND |

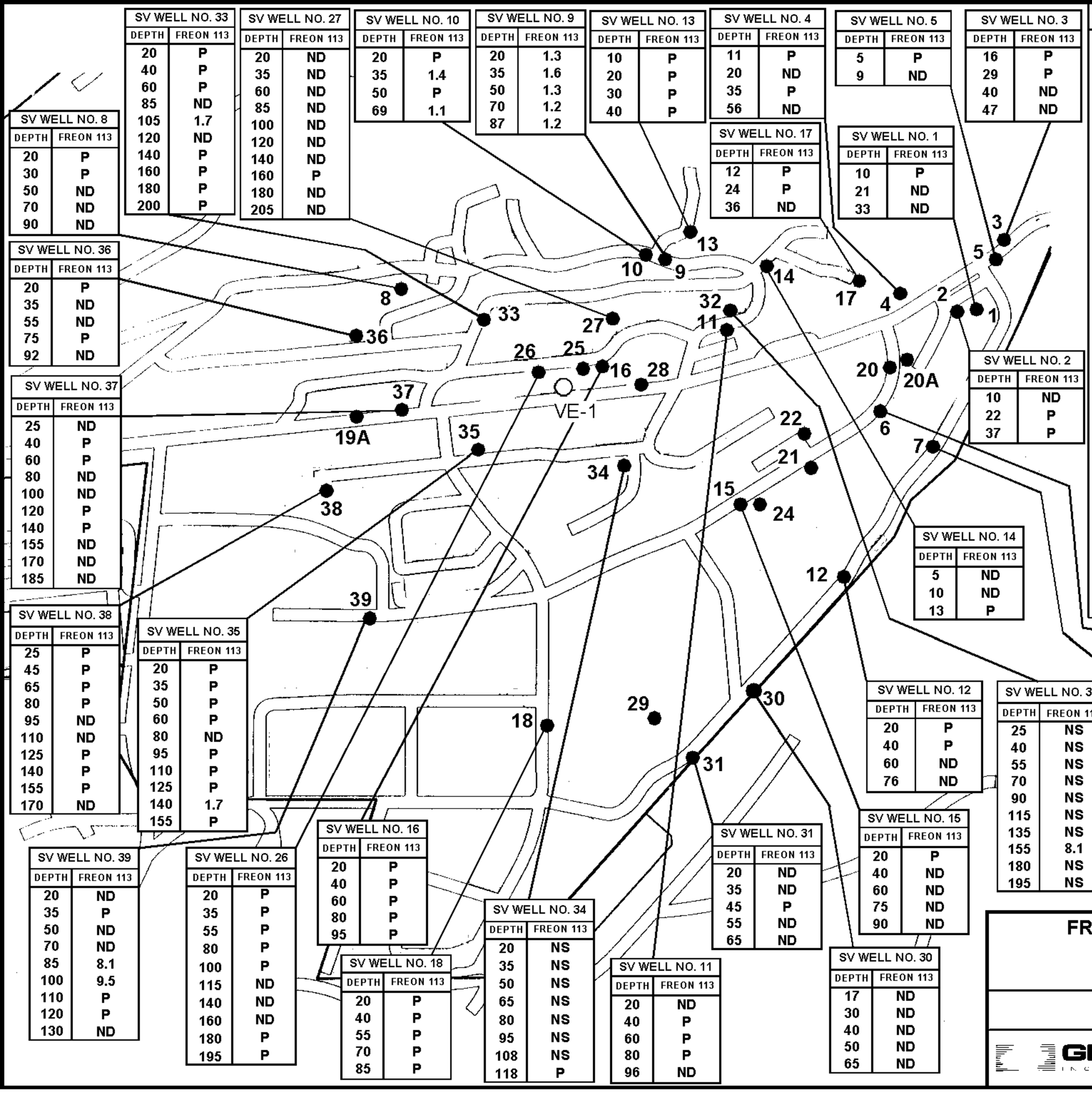
# CARBON TETRACHLORIDE CONCENTRATIONS AT DEPTH

## FIGURE 3-1

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048




## Explanation

| | |
|---|---|
| ● 39 | Soil Vapor Wells Sampled |
| ○ VE-1 | Vapor Extraction Well |
| F-113: | FREON 113 |
| ND | Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor |
| P | Sample Port Plugged: No Sample Collected |
| NS | Not Sampled at that Depth |

NOTE:

Concentrations in μg/L-Vapor

400 200 0 400

SCALE IN FEET

*Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.*

SV WELL NO. 33

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 85 | ND |
| 105 | 1.7 |
| 120 | ND |
| 140 | P |
| 160 | P |
| 180 | P |
| 200 | P |

SV WELL NO. 27

| DEPTH | FREON 113 |
|---|---|
| 20 | ND |
| 35 | ND |
| 60 | ND |
| 85 | ND |
| 100 | ND |
| 120 | ND |
| 140 | ND |
| 160 | P |
| 180 | ND |
| 205 | ND |

SV WELL NO. 10

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 35 | 1.4 |
| 50 | P |
| 69 | 1.1 |

SV WELL NO. 9

| DEPTH | FREON 113 |
|---|---|
| 20 | 1.3 |
| 35 | 1.6 |
| 50 | 1.3 |
| 70 | 1.2 |
| 87 | 1.2 |

SV WELL NO. 13

| DEPTH | FREON 113 |
|---|---|
| 10 | P |
| 20 | P |
| 30 | P |
| 40 | P |

SV WELL NO. 4

| DEPTH | FREON 113 |
|---|---|
| 11 | P |
| 20 | ND |
| 35 | P |
| 56 | ND |

SV WELL NO. 5

| DEPTH | FREON 113 |
|---|---|
| 5 | P |
| 9 | ND |

SV WELL NO. 3

| DEPTH | FREON 113 |
|---|---|
| 16 | P |
| 29 | P |
| 40 | ND |
| 47 | ND |

SV WELL NO. 8

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 30 | P |
| 50 | ND |
| 70 | ND |
| 90 | ND |

SV WELL NO. 17

| DEPTH | FREON 113 |
|---|---|
| 12 | P |
| 24 | P |
| 36 | ND |

SV WELL NO. 1

| DEPTH | FREON 113 |
|---|---|
| 10 | P |
| 21 | ND |
| 33 | ND |

SV WELL NO. 36

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 35 | ND |
| 55 | ND |
| 75 | P |
| 92 | ND |

SV WELL NO. 2

| DEPTH | FREON 113 |
|---|---|
| 10 | ND |
| 22 | P |
| 37 | P |

SV WELL NO. 37

| DEPTH | FREON 113 |
|---|---|
| 25 | ND |
| 40 | P |
| 60 | P |
| 80 | ND |
| 100 | ND |
| 120 | P |
| 140 | P |
| 155 | ND |
| 170 | ND |
| 185 | ND |

SV WELL NO. 14

| DEPTH | FREON 113 |
|---|---|
| 5 | ND |
| 10 | ND |
| 13 | P |

SV WELL NO. 38

| DEPTH | FREON 113 |
|---|---|
| 25 | P |
| 45 | P |
| 65 | P |
| 80 | P |
| 95 | ND |
| 110 | ND |
| 125 | P |
| 140 | P |
| 155 | P |
| 170 | ND |

SV WELL NO. 35

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 35 | P |
| 50 | P |
| 60 | P |
| 80 | ND |
| 95 | P |
| 110 | P |
| 125 | P |
| 140 | 1.7 |
| 155 | P |

SV WELL NO. 6

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | P |
| 77 | ND |
| 96 | ND |

SV WELL NO. 7

| DEPTH | FREON 113 |
|---|---|
| 20 | ND |
| 35 | ND |

SV WELL NO. 32

| DEPTH | FREON 113 |
|---|---|
| 25 | NS |
| 40 | NS |
| 55 | NS |
| 70 | NS |
| 90 | NS |
| 115 | NS |
| 135 | NS |
| 155 | 8.1 |
| 180 | NS |
| 195 | NS |

SV WELL NO. 12

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | P |
| 60 | ND |
| 76 | ND |

SV WELL NO. 15

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | ND |
| 75 | ND |
| 90 | ND |

SV WELL NO. 31

| DEPTH | FREON 113 |
|---|---|
| 20 | ND |
| 35 | ND |
| 45 | P |
| 55 | ND |
| 65 | ND |

SV WELL NO. 16

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 80 | P |
| 95 | P |

SV WELL NO. 39

| DEPTH | FREON 113 |
|---|---|
| 20 | ND |
| 35 | P |
| 50 | ND |
| 70 | ND |
| 85 | 8.1 |
| 100 | 9.5 |
| 110 | P |
| 120 | P |
| 130 | ND |

SV WELL NO. 26

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 35 | P |
| 55 | P |
| 80 | P |
| 100 | P |
| 115 | ND |
| 140 | ND |
| 160 | ND |
| 180 | P |
| 195 | P |

SV WELL NO. 34

| DEPTH | FREON 113 |
|---|---|
| 20 | NS |
| 35 | NS |
| 50 | NS |
| 65 | NS |
| 80 | NS |
| 95 | NS |
| 108 | NS |
| 118 | P |

SV WELL NO. 18

| DEPTH | FREON 113 |
|---|---|
| 20 | P |
| 40 | P |
| 55 | P |
| 70 | P |
| 85 | P |

SV WELL NO. 11

| DEPTH | FREON 113 |
|---|---|
| 20 | ND |
| 40 | P |
| 60 | P |
| 80 | P |
| 96 | ND |

SV WELL NO. 30

| DEPTH | FREON 113 |
|---|---|
| 17 | ND |
| 30 | ND |
| 40 | ND |
| 50 | ND |
| 65 | ND |

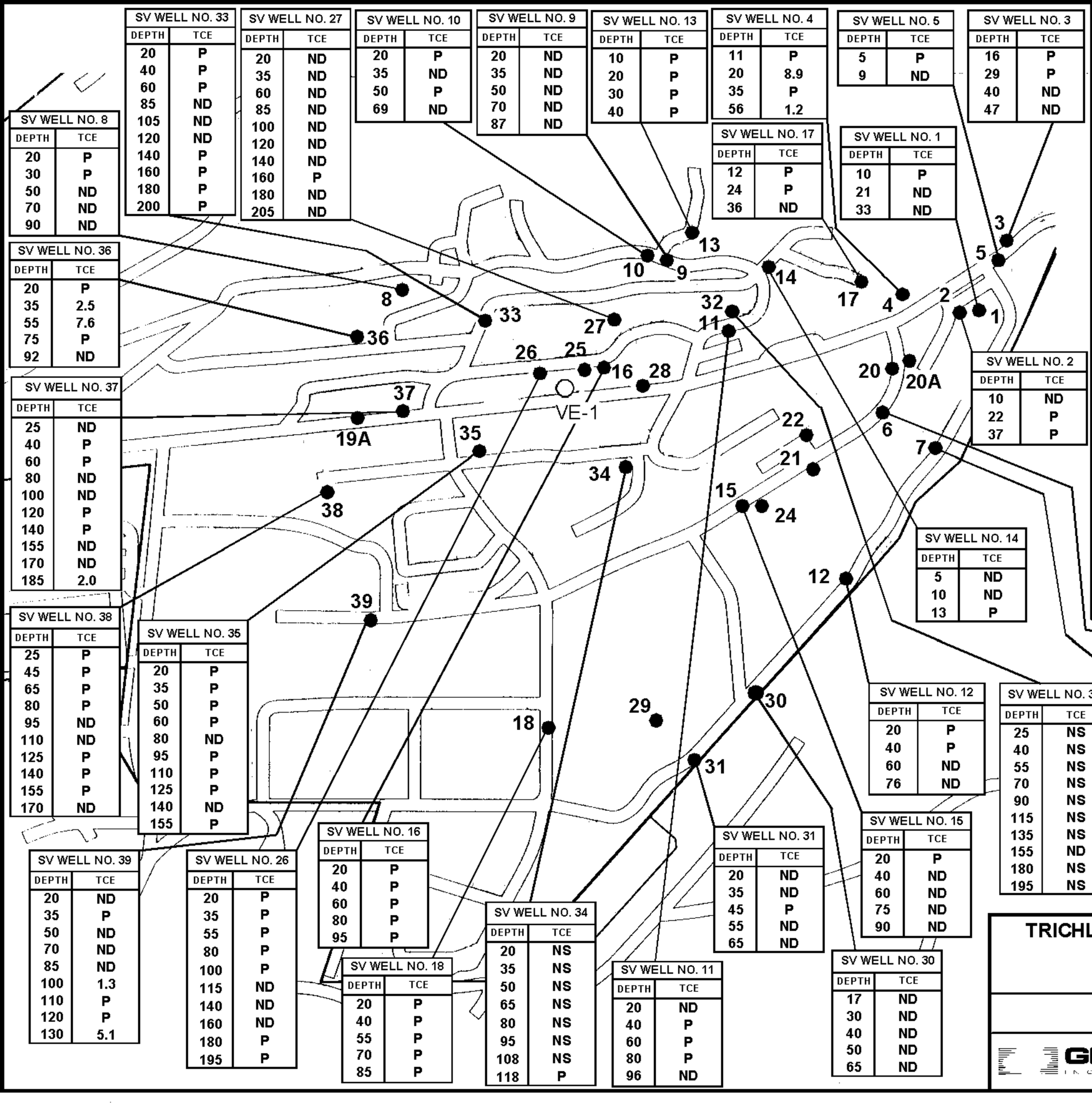
# FREON 113 CONCENTRATIONS AT DEPTH

## FIGURE 3-2

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048




## Explanation

| | |
|---|---|
| ● 39 | Soil Vapor Wells Sampled |
| ○ VE-1 | Vapor Extraction Well |
| TCE: | TRICHLOROETHENE |
| ND | Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor |
| P | Sample Port Plugged: No Sample Collected |
| NS | Not Sampled at that Depth |

NOTE:

Concentrations in μg/L-Vapor

400 200 0 400

SCALE IN FEET

*Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.*

**SV WELL NO. 33**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 85 | ND |
| 105 | ND |
| 120 | ND |
| 140 | P |
| 160 | P |
| 180 | P |
| 200 | P |

**SV WELL NO. 27**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 35 | ND |
| 60 | ND |
| 85 | ND |
| 100 | ND |
| 120 | ND |
| 140 | ND |
| 160 | P |
| 180 | ND |
| 205 | ND |

**SV WELL NO. 10**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 35 | ND |
| 50 | P |
| 69 | ND |

**SV WELL NO. 9**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 35 | ND |
| 50 | ND |
| 70 | ND |
| 87 | ND |

**SV WELL NO. 13**

| DEPTH | TCE |
|---|---|
| 10 | P |
| 20 | P |
| 30 | P |
| 40 | P |

**SV WELL NO. 4**

| DEPTH | TCE |
|---|---|
| 11 | P |
| 20 | 8.9 |
| 35 | P |
| 56 | 1.2 |

**SV WELL NO. 5**

| DEPTH | TCE |
|---|---|
| 5 | P |
| 9 | ND |

**SV WELL NO. 3**

| DEPTH | TCE |
|---|---|
| 16 | P |
| 29 | P |
| 40 | ND |
| 47 | ND |

**SV WELL NO. 8**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 30 | P |
| 50 | ND |
| 70 | ND |
| 90 | ND |

**SV WELL NO. 17**

| DEPTH | TCE |
|---|---|
| 12 | P |
| 24 | P |
| 36 | ND |

**SV WELL NO. 1**

| DEPTH | TCE |
|---|---|
| 10 | P |
| 21 | ND |
| 33 | ND |

**SV WELL NO. 36**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 35 | 2.5 |
| 55 | 7.6 |
| 75 | P |
| 92 | ND |

**SV WELL NO. 2**

| DEPTH | TCE |
|---|---|
| 10 | ND |
| 22 | P |
| 37 | P |

**SV WELL NO. 37**

| DEPTH | TCE |
|---|---|
| 25 | ND |
| 40 | P |
| 60 | P |
| 80 | ND |
| 100 | ND |
| 120 | P |
| 140 | P |
| 155 | ND |
| 170 | ND |
| 185 | 2.0 |

**SV WELL NO. 14**

| DEPTH | TCE |
|---|---|
| 5 | ND |
| 10 | ND |
| 13 | P |

**SV WELL NO. 38**

| DEPTH | TCE |
|---|---|
| 25 | P |
| 45 | P |
| 65 | P |
| 80 | P |
| 95 | ND |
| 110 | ND |
| 125 | P |
| 140 | P |
| 155 | P |
| 170 | ND |

**SV WELL NO. 35**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 35 | P |
| 50 | P |
| 60 | P |
| 80 | ND |
| 95 | P |
| 110 | P |
| 125 | P |
| 140 | ND |
| 155 | P |

**SV WELL NO. 6**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | P |
| 77 | ND |
| 96 | ND |

**SV WELL NO. 12**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | P |
| 60 | ND |
| 76 | ND |

**SV WELL NO. 32**

| DEPTH | TCE |
|---|---|
| 25 | NS |
| 40 | NS |
| 55 | NS |
| 70 | NS |
| 90 | NS |
| 115 | NS |
| 135 | NS |
| 155 | ND |
| 180 | NS |
| 195 | NS |

**SV WELL NO. 7**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 35 | ND |

**SV WELL NO. 16**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | P |
| 60 | P |
| 80 | P |
| 95 | P |

**SV WELL NO. 31**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 35 | ND |
| 45 | P |
| 55 | ND |
| 65 | ND |

**SV WELL NO. 15**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | ND |
| 60 | ND |
| 75 | ND |
| 90 | ND |

**SV WELL NO. 39**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 35 | P |
| 50 | ND |
| 70 | ND |
| 85 | ND |
| 100 | 1.3 |
| 110 | P |
| 120 | P |
| 130 | 5.1 |

**SV WELL NO. 26**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 35 | P |
| 55 | P |
| 80 | P |
| 100 | P |
| 115 | ND |
| 140 | ND |
| 160 | ND |
| 180 | P |
| 195 | P |

**SV WELL NO. 18**

| DEPTH | TCE |
|---|---|
| 20 | P |
| 40 | P |
| 55 | P |
| 70 | P |
| 85 | P |

**SV WELL NO. 34**

| DEPTH | TCE |
|---|---|
| 20 | NS |
| 35 | NS |
| 50 | NS |
| 65 | NS |
| 80 | NS |
| 95 | NS |
| 108 | NS |
| 118 | P |

**SV WELL NO. 11**

| DEPTH | TCE |
|---|---|
| 20 | ND |
| 40 | P |
| 60 | P |
| 80 | P |
| 96 | ND |

**SV WELL NO. 30**

| DEPTH | TCE |
|---|---|
| 17 | ND |
| 30 | ND |
| 40 | ND |
| 50 | ND |
| 65 | ND |

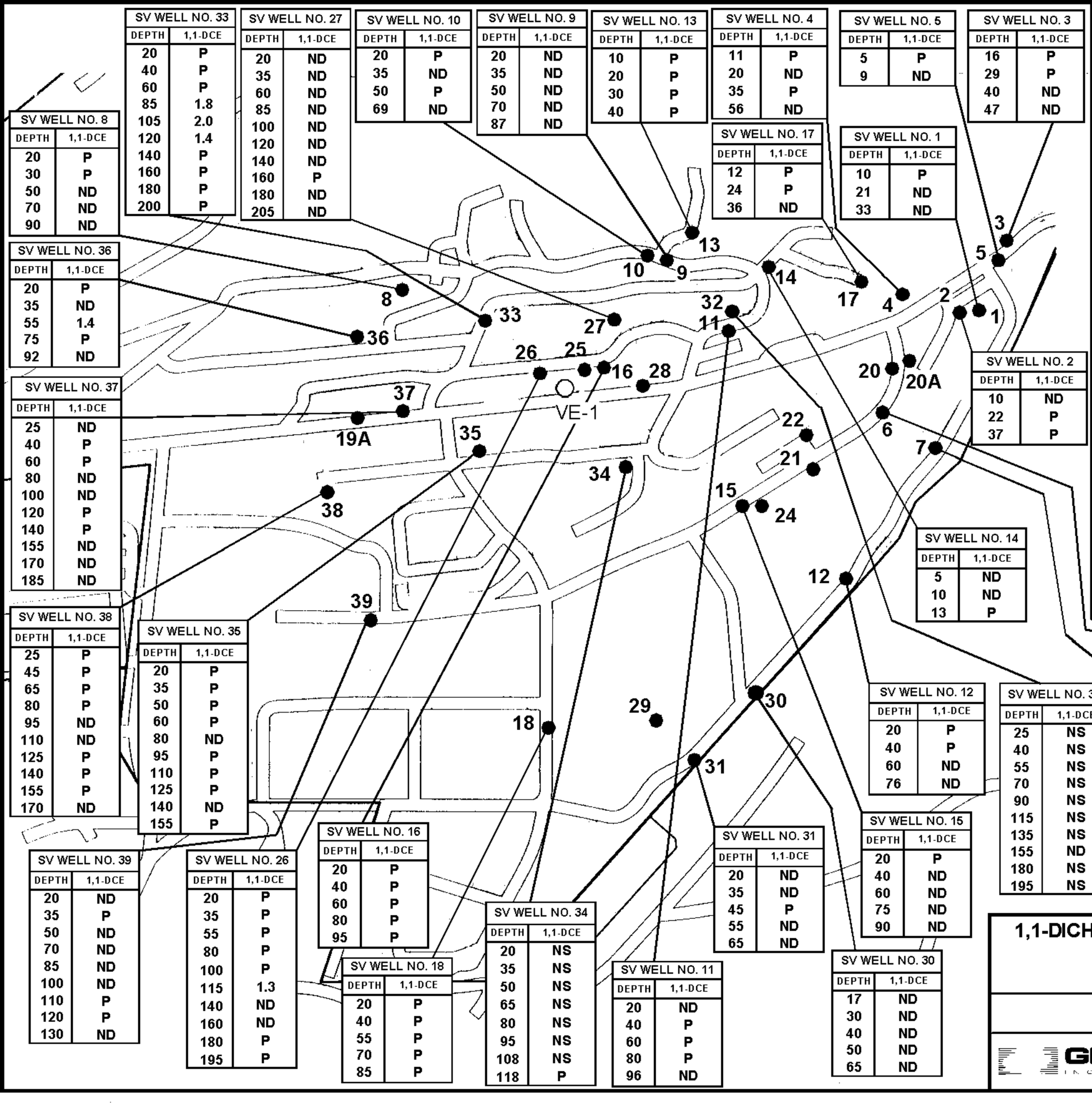
# TRICHLOROETHENE CONCENTRATIONS AT DEPTH

## FIGURE 3-3

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048




| SV WELL NO. 33 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | P |
| 60 | P |
| 85 | 1.8 |
| 105 | 2.0 |
| 120 | 1.4 |
| 140 | P |
| 160 | P |
| 180 | P |
| 200 | P |

| SV WELL NO. 27 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 35 | ND |
| 60 | ND |
| 85 | ND |
| 100 | ND |
| 120 | ND |
| 140 | ND |
| 160 | P |
| 180 | ND |
| 205 | ND |

| SV WELL NO. 10 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 35 | ND |
| 50 | P |
| 69 | ND |

| SV WELL NO. 9 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 35 | ND |
| 50 | ND |
| 70 | ND |
| 87 | ND |

| SV WELL NO. 13 | |
|---|---|
| DEPTH | 1,1-DCE |
| 10 | P |
| 20 | P |
| 30 | P |
| 40 | P |

| SV WELL NO. 4 | |
|---|---|
| DEPTH | 1,1-DCE |
| 11 | P |
| 20 | ND |
| 35 | P |
| 56 | ND |

| SV WELL NO. 5 | |
|---|---|
| DEPTH | 1,1-DCE |
| 5 | P |
| 9 | ND |

| SV WELL NO. 3 | |
|---|---|
| DEPTH | 1,1-DCE |
| 16 | P |
| 29 | P |
| 40 | ND |
| 47 | ND |

| SV WELL NO. 8 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 30 | P |
| 50 | ND |
| 70 | ND |
| 90 | ND |

| SV WELL NO. 17 | |
|---|---|
| DEPTH | 1,1-DCE |
| 12 | P |
| 24 | P |
| 36 | ND |

| SV WELL NO. 1 | |
|---|---|
| DEPTH | 1,1-DCE |
| 10 | P |
| 21 | ND |
| 33 | ND |

| SV WELL NO. 36 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 35 | ND |
| 55 | 1.4 |
| 75 | P |
| 92 | ND |

| SV WELL NO. 2 | |
|---|---|
| DEPTH | 1,1-DCE |
| 10 | ND |
| 22 | P |
| 37 | P |

| SV WELL NO. 37 | |
|---|---|
| DEPTH | 1,1-DCE |
| 25 | ND |
| 40 | P |
| 60 | P |
| 80 | ND |
| 100 | ND |
| 120 | P |
| 140 | P |
| 155 | ND |
| 170 | ND |
| 185 | ND |

| SV WELL NO. 14 | |
|---|---|
| DEPTH | 1,1-DCE |
| 5 | ND |
| 10 | ND |
| 13 | P |

| SV WELL NO. 38 | |
|---|---|
| DEPTH | 1,1-DCE |
| 25 | P |
| 45 | P |
| 65 | P |
| 80 | P |
| 95 | ND |
| 110 | ND |
| 125 | P |
| 140 | P |
| 155 | P |
| 170 | ND |

| SV WELL NO. 35 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 35 | P |
| 50 | P |
| 60 | P |
| 80 | ND |
| 95 | P |
| 110 | P |
| 125 | P |
| 140 | ND |
| 155 | P |

| SV WELL NO. 6 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | ND |
| 60 | P |
| 77 | ND |
| 96 | P |

| SV WELL NO. 12 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | P |
| 60 | ND |
| 76 | ND |

| SV WELL NO. 32 | |
|---|---|
| DEPTH | 1,1-DCE |
| 25 | NS |
| 40 | NS |
| 55 | NS |
| 70 | NS |
| 90 | NS |
| 115 | NS |
| 135 | NS |
| 155 | ND |
| 180 | NS |
| 195 | NS |

| SV WELL NO. 7 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 35 | ND |

| SV WELL NO. 16 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | P |
| 60 | P |
| 80 | P |
| 95 | P |

| SV WELL NO. 31 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 35 | ND |
| 45 | P |
| 55 | ND |
| 65 | ND |

| SV WELL NO. 15 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | ND |
| 60 | ND |
| 75 | ND |
| 90 | ND |

| SV WELL NO. 39 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 35 | P |
| 50 | ND |
| 70 | ND |
| 85 | ND |
| 100 | ND |
| 110 | P |
| 120 | P |
| 130 | ND |

| SV WELL NO. 26 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 35 | P |
| 55 | P |
| 80 | P |
| 100 | P |
| 115 | 1.3 |
| 140 | ND |
| 160 | ND |
| 180 | P |
| 195 | P |

| SV WELL NO. 18 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | P |
| 40 | P |
| 55 | P |
| 70 | P |
| 85 | P |

| SV WELL NO. 34 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | NS |
| 35 | NS |
| 50 | NS |
| 65 | NS |
| 80 | NS |
| 95 | NS |
| 108 | NS |
| 118 | P |

| SV WELL NO. 11 | |
|---|---|
| DEPTH | 1,1-DCE |
| 20 | ND |
| 40 | P |
| 60 | P |
| 80 | P |
| 96 | ND |

| SV WELL NO. 30 | |
|---|---|
| DEPTH | 1,1-DCE |
| 17 | ND |
| 30 | ND |
| 40 | ND |
| 50 | ND |
| 65 | ND |

## Explanation

| | |
|---|---|
| ● 39 | Soil Vapor Wells Sampled |
| ○ VE-1 | Vapor Extraction Well |
| 1,1-DCE: | **1,1-DICHLOROETHENE** |
| ND | Non-Detect @ Laboratory Detection Limit of 1.0 $\mu$g/L-Vapor |
| P | Sample Port Plugged: No Sample Collected |
| NS | Not Sampled at that Depth |

NOTE:

Concentrations in $\mu$g/L-Vapor

400 200 0 400

SCALE IN FEET

*Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.*

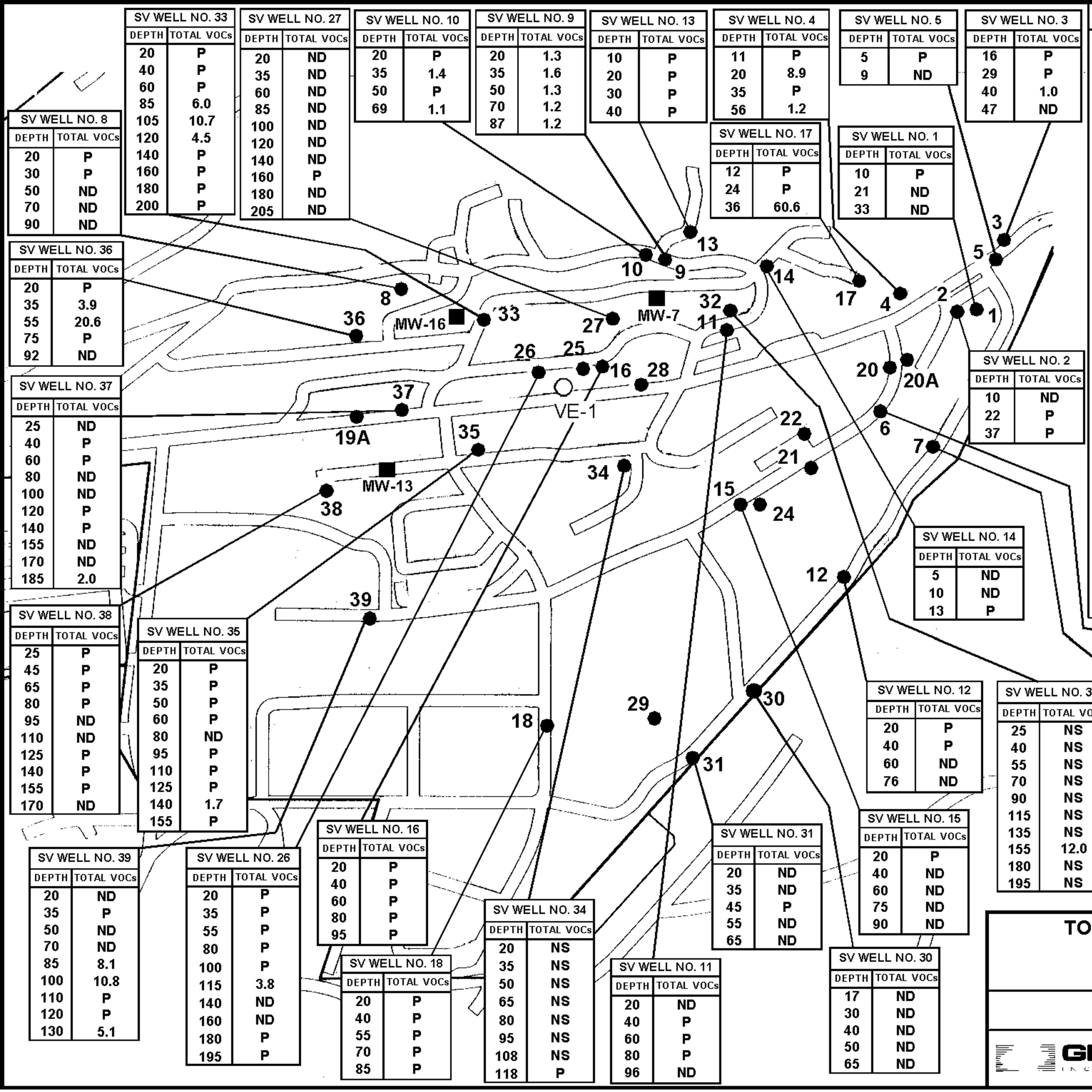
# 1,1-DICHLOROETHENE CONCENTRATIONS AT DEPTH

## FIGURE 3-4

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048




| SV WELL NO. 33 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | P |
| 60 | P |
| 85 | 6.0 |
| 105 | 10.7 |
| 120 | 4.5 |
| 140 | P |
| 160 | P |
| 180 | P |
| 200 | P |

| SV WELL NO. 27 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | ND |
| 35 | ND |
| 60 | ND |
| 85 | ND |
| 100 | ND |
| 120 | ND |
| 140 | ND |
| 160 | P |
| 180 | ND |
| 205 | ND |

| SV WELL NO. 10 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 35 | 1.4 |
| 50 | P |
| 69 | 1.1 |

| SV WELL NO. 9 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | 1.3 |
| 35 | 1.6 |
| 50 | 1.3 |
| 70 | 1.2 |
| 87 | 1.2 |

| SV WELL NO. 13 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 10 | P |
| 20 | P |
| 30 | P |
| 40 | P |

| SV WELL NO. 4 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 11 | P |
| 20 | 8.9 |
| 35 | P |
| 56 | 1.2 |

| SV WELL NO. 5 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 5 | P |
| 9 | ND |

| SV WELL NO. 3 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 16 | P |
| 29 | P |
| 40 | 1.0 |
| 47 | ND |

| SV WELL NO. 8 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 30 | P |
| 50 | ND |
| 70 | ND |
| 90 | ND |

| SV WELL NO. 17 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 12 | P |
| 24 | P |
| 36 | 60.6 |

| SV WELL NO. 1 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 10 | P |
| 21 | ND |
| 33 | ND |

| SV WELL NO. 36 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 35 | 3.9 |
| 55 | 20.6 |
| 75 | P |
| 92 | ND |

| SV WELL NO. 2 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 10 | ND |
| 22 | P |
| 37 | P |

| SV WELL NO. 37 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 25 | ND |
| 40 | P |
| 60 | P |
| 80 | ND |
| 100 | ND |
| 120 | P |
| 140 | P |
| 155 | ND |
| 170 | ND |
| 185 | 2.0 |

| SV WELL NO. 14 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 5 | ND |
| 10 | ND |
| 13 | P |

| SV WELL NO. 38 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 25 | P |
| 45 | P |
| 65 | P |
| 80 | P |
| 95 | ND |
| 110 | ND |
| 125 | P |
| 140 | P |
| 155 | P |
| 170 | ND |

| SV WELL NO. 35 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 35 | P |
| 50 | P |
| 60 | P |
| 80 | ND |
| 95 | P |
| 110 | P |
| 125 | P |
| 140 | 1.7 |
| 155 | P |

| SV WELL NO. 12 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | P |
| 60 | ND |
| 76 | ND |

| SV WELL NO. 32 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 25 | NS |
| 40 | NS |
| 55 | NS |
| 70 | NS |
| 90 | NS |
| 115 | NS |
| 135 | NS |
| 155 | 12.0 |
| 180 | NS |
| 195 | NS |

| SV WELL NO. 7 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | ND |
| 35 | ND |

| SV WELL NO. 6 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | ND |
| 60 | P |
| 77 | ND |
| 96 | ND |

| SV WELL NO. 16 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | P |
| 60 | P |
| 80 | P |
| 95 | P |

| SV WELL NO. 31 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | ND |
| 35 | ND |
| 45 | P |
| 55 | ND |
| 65 | ND |

| SV WELL NO. 15 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | ND |
| 60 | ND |
| 75 | ND |
| 90 | ND |

| SV WELL NO. 39 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | ND |
| 35 | P |
| 50 | ND |
| 70 | ND |
| 85 | 8.1 |
| 100 | 10.8 |
| 110 | P |
| 120 | P |
| 130 | 5.1 |

| SV WELL NO. 26 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 35 | P |
| 55 | P |
| 80 | P |
| 100 | P |
| 115 | 3.8 |
| 140 | ND |
| 160 | ND |
| 180 | P |
| 195 | P |

| SV WELL NO. 18 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | P |
| 40 | P |
| 55 | P |
| 70 | P |
| 85 | P |

| SV WELL NO. 34 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | NS |
| 35 | NS |
| 50 | NS |
| 65 | NS |
| 80 | NS |
| 95 | NS |
| 108 | NS |
| 118 | P |

| SV WELL NO. 11 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 20 | ND |
| 40 | P |
| 60 | P |
| 80 | P |
| 96 | ND |

| SV WELL NO. 30 | |
|---|---|
| DEPTH | TOTAL VOCs |
| 17 | ND |
| 30 | ND |
| 40 | ND |
| 50 | ND |
| 65 | ND |

## Explanation

| | |
|---|---|
| ● 39 | Soil Vapor Wells Sampled |
| ○ VE-1 | Vapor Extraction Well |
| **VOCs:** | **Volatile Organic Compounds** |
| ND | Non-Detect @ Laboratory Detection Limit of 1.0 μg/L-Vapor |
| P | Sample Port Plugged: No Sample Collected |
| NS | Not Sampled at that Depth |
| ■ MW-7 | **Groundwater Monitoring Well** |

NOTE:

Concentrations in μg/L-Vapor

400 200 0 400

SCALE IN FEET

*Source: USGS, 7.5 Minute Topographic Map Pasadena, CA 1966, Revised 1988, 1994.*

# TOTAL VOC CONCENTRATIONS AT DEPTH

## FIGURE 3-5

Jet Propulsion Laboratory
Pasadena, California

GEOFON INCORPORATED

Date: April 2002
Contract No.: N68711-97-D-8702
DO No.: 0048