

**PALOS VERDES LANDFILL
REMEDIAL INVESTIGATION REPORT**

APPENDIX B.2.1.1

QA/QC DATA FOR RI SOIL BORING SAMPLES

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT pH
RPD LIMIT 0.50

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
0.25
0.30
0.30
0.30
0.40

AVERAGE RPD 0.17

CONSTITUENT Acenaphthene
RPD LIMIT 13.10

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
2.20
2.40
6.10
6.70
6.70
6.90
8.50
10.30
24.10

AVERAGE RPD 5.68

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Antimony

RPD LIMIT 1.00

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.00
6.89
11.64
15.00
20.00

AVERAGE RPD 3.35

CONSTITUENT Arsenic

RPD LIMIT 10.57

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
2.19
2.32
4.08

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Arsenic

RPD LIMIT 10.57

RELATIVE PERCENT
DIFFERENCE

5.94

8.00

11.76

AVERAGE RPD 3.43

CONSTITUENT Barium

RPD LIMIT 15.40

RELATIVE PERCENT
DIFFERENCE

0.55

2.12

2.39

4.14

7.98

11.13

AVERAGE RPD 4.72

CONSTITUENT Benzene

RPD LIMIT 7.40

RELATIVE PERCENT
DIFFERENCE

0.00

1.00

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Benzene

RPD LIMIT 7.40

RELATIVE PERCENT
DIFFERENCE

1.00
1.00
3.00
4.00
5.00
5.00
5.00
5.00
5.00
6.00
6.00
7.00
8.00
10.00
13.00
35.00

AVERAGE RPD 6.67

CONSTITUENT Beryllium

RPD LIMIT 7.80

RELATIVE PERCENT
DIFFERENCE

0.30
0.55
1.66
1.74
2.03
3.76
6.48

AVERAGE RPD 2.36

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Cadmium
RPD LIMIT 16.30

RELATIVE PERCENT
DIFFERENCE

0.00
0.49
0.56
2.05
2.16
2.29
4.88
8.50
10.09
13.90

AVERAGE RPD 4.49

CONSTITUENT Calcium
RPD LIMIT 11.00

RELATIVE PERCENT
DIFFERENCE

0.16
1.50
2.00
2.50
2.74
3.35
4.20
7.40
20.10

AVERAGE RPD 4.88

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Cation Exchange Capacity

RPD LIMIT 0.00

RELATIVE PERCENT
DIFFERENCE

1.30
7.50
12.50

AVERAGE RPD 7.10

CONSTITUENT Chloride

RPD LIMIT 3.80

RELATIVE PERCENT
DIFFERENCE

0.00
0.04
0.06
0.10
2.10
2.40
2.58
4.11
5.64

AVERAGE RPD 1.89

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Chlorobenzene

RPD LIMIT 12.90

RELATIVE PERCENT
DIFFERENCE

0.00
1.00
2.00
2.00
3.00
4.00
4.00
5.00
7.00
7.00
8.00
8.00
9.00
9.00
10.00
12.00
15.00
20.00

AVERAGE RPD 7.00

CONSTITUENT Chlorophenol

RPD LIMIT 19.40

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
2.10
2.70
3.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Chlorophenol

RPD LIMIT 19.40

RELATIVE PERCENT
DIFFERENCE

4.87
5.10
8.20
9.00
10.90
13.70
19.00
48.50

AVERAGE RPD 9.77

CONSTITUENT Chromium

RPD LIMIT 15.40

RELATIVE PERCENT
DIFFERENCE

0.38
1.55
1.63
1.72
1.78
2.50
3.11
5.63
9.09
16.40

AVERAGE RPD 4.38

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Cobalt

RPD LIMIT 11.80

RELATIVE PERCENT
DIFFERENCE

1.61
4.78
40.90

AVERAGE RPD 15.76

CONSTITUENT Conductivity

RPD LIMIT 30.60

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
0.00
0.00
0.00
0.26
0.40

AVERAGE RPD 0.08

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Copper

RPD LIMIT 23.60

RELATIVE PERCENT
DIFFERENCE

0.59
0.75
0.78
1.93
2.11
3.00
3.74
9.20

AVERAGE RPD 2.76

CONSTITUENT Dichlorobenzene

RPD LIMIT 14.00

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
1.90
2.20
2.30
4.30
4.30
6.10
6.70
8.70
8.70
9.10
17.30

AVERAGE RPD 5.51

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Dinitrotoluene

RPD LIMIT 15.00

RELATIVE PERCENT
DIFFERENCE

RELATIVE PERCENT DIFFERENCE
0.00
0.00
0.00
2.50
2.70
2.70
4.30
5.60
5.60
14.90
21.70
27.60
28.60

AVERAGE RPD 8.94

CONSTITUENT Iron

RPD LIMIT 17.60

RELATIVE PERCENT
DIFFERENCE

RELATIVE PERCENT DIFFERENCE
0.13
0.60
1.02
1.86
1.90
2.60
4.20
6.30
6.50
9.10

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Iron
RPD LIMIT 17.60

RELATIVE PERCENT
DIFFERENCE

11.20
11.59
17.88
23.50

AVERAGE RPD 7.03

CONSTITUENT Lead
RPD LIMIT 20.10

RELATIVE PERCENT
DIFFERENCE

0.43
0.88
1.15
1.40
2.49
3.06
3.10
6.90
7.05
8.11
15.80

AVERAGE RPD 4.58

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Magnesium

RPD LIMIT 9.50

RELATIVE PERCENT
DIFFERENCE

0.07
0.52
0.74
1.30
2.60
3.00
5.20
6.70
8.13
9.30

AVERAGE RPD 3.76

CONSTITUENT Manganese

RPD LIMIT 8.70

RELATIVE PERCENT
DIFFERENCE

0.43
0.46
2.10
8.60
43.30

AVERAGE RPD 10.98

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Mercury

RPD LIMIT 11.60

RELATIVE PERCENT
DIFFERENCE

1.70
1.80
2.00
2.10
2.50
3.50
4.00
4.90
5.10
6.20
6.60
7.10
10.00
11.40
11.40
21.00
35.80

AVERAGE RPD 8.06

CONSTITUENT Molybdenum

RPD LIMIT 16.70

RELATIVE PERCENT
DIFFERENCE

0.00
1.33
2.81
4.32
11.86
14.33

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Molybdenum

RPD LIMIT 16.70

RELATIVE PERCENT
DIFFERENCE

32.30

AVERAGE RPD 9.56

CONSTITUENT N-nitrosodi-n-propylamine

RPD LIMIT 15.90

RELATIVE PERCENT
DIFFERENCE

0.00
2.50
2.70
2.70
2.70
2.90
4.90
5.00
5.60
9.30
11.80
12.70
200.00

AVERAGE RPD 20.22

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Nickel

RPD LIMIT 16.70

RELATIVE PERCENT
DIFFERENCE

0.39
1.61
1.79
1.84
2.12
2.33
3.92
8.86
10.60
11.67

AVERAGE RPD 4.51

CONSTITUENT Nitrate Nitrogen

RPD LIMIT 5.90

RELATIVE PERCENT
DIFFERENCE

0.00
0.40
0.50
1.20
1.30
1.90
5.57
6.30
10.66
13.01

AVERAGE RPD 4.08

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Oil and Grease

RPD LIMIT 9.30

RELATIVE PERCENT
DIFFERENCE

0.00
2.00
2.00
2.84
3.90
11.00
14.00

AVERAGE RPD 5.11

CONSTITUENT Pentachlorophenol

RPD LIMIT 28.50

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
2.20
4.80
4.90
5.00
5.70
6.60
15.40
15.40
17.70
17.70
23.40

AVERAGE RPD 8.49

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Phenol

RPD LIMIT 23.10

RELATIVE PERCENT
DIFFERENCE

1.80
2.50
2.70
3.10
4.80
6.10
6.60
9.20
18.20
21.60
30.30
63.60
200.00

AVERAGE RPD 28.50

CONSTITUENT Potassium

RPD LIMIT 13.40

RELATIVE PERCENT
DIFFERENCE

0.28
1.02
1.93
2.10
2.99
3.91
4.65
5.39
6.25
9.34

AVERAGE RPD 3.79

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Pyrene

RPD LIMIT 17.70

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
0.00
2.20
2.40
4.30
4.90
6.50
8.80
9.00
9.30
11.00

AVERAGE RPD 4.17

CONSTITUENT Selenium

RPD LIMIT 7.60

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
2.17
4.65
9.00
11.11

AVERAGE RPD 3.85

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Silver

RPD LIMIT 11.10

RELATIVE PERCENT
DIFFERENCE

0.46
0.79
0.84
0.90
2.08
2.85
4.65
6.06
7.20
14.20

AVERAGE RPD 4.00

CONSTITUENT Sodium

RPD LIMIT 9.80

RELATIVE PERCENT
DIFFERENCE

0.16
0.20
0.94
1.46
1.92
2.79
3.65
3.95
4.84
7.67

AVERAGE RPD 2.76

LABORATORY DUPLICATE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Thallium

RPD LIMIT 0.74

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
0.00
0.00
0.00

AVERAGE RPD 0.00

CONSTITUENT Toluene

RPD LIMIT 6.20

RELATIVE PERCENT
DIFFERENCE

1.00
1.00
2.00
2.00
3.00
3.00
4.00
4.00
4.00
5.00
5.00
6.00
6.00
8.00
8.00
15.00
17.00
35.00

AVERAGE RPD 7.17

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Trichlorobenzene

RPD LIMIT 14.20

RELATIVE PERCENT
DIFFERENCE

1.90
2.10
2.20
2.20
4.10
4.30
4.70
6.60
8.70
9.90
11.00
15.40

AVERAGE RPD 6.09

CONSTITUENT Trichloroethene

RPD LIMIT 17.60

RELATIVE PERCENT
DIFFERENCE

1.00
1.00
2.00
2.00
4.00
4.00
5.00
5.00
5.00
6.00
7.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Trichloroethene

RPD LIMIT 17.60

RELATIVE PERCENT
DIFFERENCE

7.00
7.00
14.00
14.00
14.00
19.00
25.00

AVERAGE RPD 7.89

CONSTITUENT Vanadium

RPD LIMIT 9.40

RELATIVE PERCENT
DIFFERENCE

1.09
1.17
2.69
2.96
3.73
5.70
7.21

AVERAGE RPD 3.51

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Zinc
RPD LIMIT 15.70

RELATIVE PERCENT
DIFFERENCE

0.19
0.43
1.49
2.38
3.16
4.79
5.65
7.91
9.28
13.40

AVERAGE RPD 4.87

CONSTITUENT 1,1-Dichloroethene
RPD LIMIT 15.50

RELATIVE PERCENT
DIFFERENCE

0.00
1.00
2.00
3.00
3.00
3.00
4.00
4.00
5.00
5.00
5.00
5.00
5.00
5.00
5.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT 1,1-Dichloroethene

RPD LIMIT 15.50

RELATIVE PERCENT
DIFFERENCE

8.00
9.00
14.00
15.00
20.00

AVERAGE RPD 6.17

CONSTITUENT 8015

RPD LIMIT 0.00

RELATIVE PERCENT
DIFFERENCE

0.00
0.00
1.12
2.00
2.87
4.00
4.00
5.00
5.00
5.00
7.61
8.00
8.16
13.00
13.33
16.00
17.00
19.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT 8015

RPD LIMIT 0.00

RELATIVE PERCENT
DIFFERENCE

19.00

23.00

28.00

31.40

AVERAGE RPD 10.57

LABORATORY SPIKE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Acenaphthene
LOWER RECOVERY LIMIT	45.00
UPPER RECOVERY LIMIT	122.00

PERCENT RECOVERY

82.00
83.00
86.00
87.00
89.00
89.00
93.00
94.00
97.00
99.00
100.00
100.00
116.00

Average Percent Recovery 93.46

CONSTITUENT	Antimony
LOWER RECOVERY LIMIT	64.61
UPPER RECOVERY LIMIT	131.53

PERCENT RECOVERY

8.60
20.34
22.03
27.59
43.33
58.62
59.65
60.03
64.42
79.09
79.66

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Antimony
LOWER RECOVERY LIMIT	64.61
UPPER RECOVERY LIMIT	131.53

PERCENT RECOVERY

83.05
84.76
88.89
93.33
119.52

Average Percent Recovery 62.06

CONSTITUENT	Arsenic
LOWER RECOVERY LIMIT	80.68
UPPER RECOVERY LIMIT	116.68

PERCENT RECOVERY

34.57
61.24
78.77
79.09
110.80

Average Percent Recovery 72.89

CONSTITUENT	Barium
LOWER RECOVERY LIMIT	64.00
UPPER RECOVERY LIMIT	139.00

PERCENT RECOVERY

80.90
81.80

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Barium
LOWER RECOVERY LIMIT	64.00
UPPER RECOVERY LIMIT	139.00
	PERCENT RECOVERY

	95.70
	103.00
	108.40
	118.00

Average Percent Recovery	97.97

CONSTITUENT	Benzene
LOWER RECOVERY LIMIT	82.00
UPPER RECOVERY LIMIT	118.00
	PERCENT RECOVERY

	82.00
	85.00
	91.00
	94.00
	95.00
	98.00
	99.00
	99.00
	101.00
	104.00
	105.00
	106.00
	107.00
	107.00
	108.00
	109.00
	114.00
	117.00

Average Percent Recovery	101.17

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Beryllium
LOWER RECOVERY LIMIT	90.00
UPPER RECOVERY LIMIT	138.00
	PERCENT RECOVERY

	66.00
	90.00
	100.90
	115.20
	119.20
	120.00
	120.80

Average Percent Recovery	104.59

CONSTITUENT	Cadmium
LOWER RECOVERY LIMIT	82.00
UPPER RECOVERY LIMIT	119.00
	PERCENT RECOVERY

	77.80
	81.30
	85.80
	91.60
	93.00
	97.00
	97.40
	99.00
	101.10
	102.30

Average Percent Recovery	92.63

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Calcium
LOWER RECOVERY LIMIT	77.00
UPPER RECOVERY LIMIT	115.00

PERCENT RECOVERY

70.50
94.30
100.00
101.00
104.60
109.00
111.00
113.10

Average Percent Recovery 100.44

CONSTITUENT	Chloride
LOWER RECOVERY LIMIT	93.00
UPPER RECOVERY LIMIT	106.00

PERCENT RECOVERY

91.60
93.40
98.90
99.20
99.30
100.20
100.60
111.20
112.10

Average Percent Recovery 100.72

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Chlorobenzene

LOWER RECOVERY LIMIT 84.00
UPPER RECOVERY LIMIT 114.00

PERCENT RECOVERY

90.00
95.00
96.00
96.00
99.00
99.00
99.00
100.00
101.00
102.00
103.00
104.00
105.00
105.00
110.00
111.00
112.00
113.00

Average Percent Recovery 102.22

CONSTITUENT Chlorophenol

LOWER RECOVERY LIMIT 48.00
UPPER RECOVERY LIMIT 115.00

PERCENT RECOVERY

67.00
67.00
73.00
73.00
75.00
78.00

LABORATORY SPIKE ANALYSIS RESULTS

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Chlorophenol

LOWER RECOVERY LIMIT 48.00
UPPER RECOVERY LIMIT 115.00

PERCENT RECOVERY

80.00
82.00
84.00
84.00
92.00
97.00
97.00

Average Percent Recovery 80.69

CONSTITUENT Chromium

LOWER RECOVERY LIMIT 66.00
UPPER RECOVERY LIMIT 117.00

PERCENT RECOVERY

71.60
75.40
76.20
85.50
89.00
92.90
94.20
96.70
97.10
100.00

Average Percent Recovery 87.86

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Cobalt
LOWER RECOVERY LIMIT	101.00
UPPER RECOVERY LIMIT	129.00
	PERCENT RECOVERY

	113.60
	120.00
	158.00

Average Percent Recovery	130.53

CONSTITUENT	Copper
LOWER RECOVERY LIMIT	78.00
UPPER RECOVERY LIMIT	121.00
	PERCENT RECOVERY

	86.80
	96.00
	96.80
	97.40
	97.60
	101.10
	102.40
	103.00

Average Percent Recovery	97.64

CONSTITUENT	Dichlorobenzene
LOWER RECOVERY LIMIT	31.00
UPPER RECOVERY LIMIT	111.00
	PERCENT RECOVERY

	80.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Dichlorobenzene

LOWER RECOVERY LIMIT 31.00
UPPER RECOVERY LIMIT 111.00

PERCENT RECOVERY

81.00
87.00
88.00
92.00
92.00
92.00
92.00
93.00
94.00
96.70
99.00
103.00

Average Percent Recovery 91.52

CONSTITUENT Dinitrotoluene

LOWER RECOVERY LIMIT 37.00
UPPER RECOVERY LIMIT 132.00

PERCENT RECOVERY

58.00
67.00
68.00
72.00
72.00
73.00
73.00
76.00
77.00
79.00
83.00
84.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Dinitrotoluene

LOWER RECOVERY LIMIT 37.00
UPPER RECOVERY LIMIT 132.00

PERCENT RECOVERY

92.00

Average Percent Recovery 74.92

CONSTITUENT Iron

LOWER RECOVERY LIMIT 76.00
UPPER RECOVERY LIMIT 145.00

PERCENT RECOVERY

53.00
95.60
97.20
101.00
106.00
108.00
108.70
108.70
111.50
112.00
116.30
123.00
135.70
1456*0

Average Percent Recovery 202.34

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Lead
LOWER RECOVERY LIMIT	63.00
UPPER RECOVERY LIMIT	138.00
	PERCENT RECOVERY

	75.50
	78.00
	85.50
	90.10
	93.80
	94.80
	98.00
	101.50
	102.00
	104.00
	104.80

Average Percent Recovery	93.45

CONSTITUENT	Magnesium
LOWER RECOVERY LIMIT	76.00
UPPER RECOVERY LIMIT	125.00
	PERCENT RECOVERY

	81.40
	96.30
	97.30
	97.60
	100.20
	103.00
	106.40
	107.00
	107.00
	110.00

Average Percent Recovery	100.62

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Manganese
LOWER RECOVERY LIMIT	73.00
UPPER RECOVERY LIMIT	117.00

PERCENT RECOVERY

80.00
83.00
83.40
91.90
110.00

Average Percent Recovery 89.66

CONSTITUENT	Mercury
LOWER RECOVERY LIMIT	69.00
UPPER RECOVERY LIMIT	122.00

PERCENT RECOVERY

27.00
64.00
81.80
85.00
90.50
91.20
91.60
92.50
94.70
95.80
95.80
98.20
98.80
101.00
101.00
103.00
123.00

Average Percent Recovery 90.29

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Molybdenum

LOWER RECOVERY LIMIT 60.00
UPPER RECOVERY LIMIT 122.00

PERCENT RECOVERY

41.20
52.80
73.30
73.40
77.00
94.00
102.00

Average Percent Recovery 73.39

CONSTITUENT N-nitrosodi-n-propylamine

LOWER RECOVERY LIMIT 46.00
UPPER RECOVERY LIMIT 118.00

PERCENT RECOVERY

40.00
68.00
68.00
69.00
72.00
73.00
73.00
75.00
79.00
79.00
80.00
82.00
86.00

Average Percent Recovery 72.62

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Nickel
LOWER RECOVERY LIMIT	65.00
UPPER RECOVERY LIMIT	118.00
	PERCENT RECOVERY

	71.60
	75.30
	76.34
	85.00
	88.60
	93.30
	95.60
	96.00
	97.00
	100.87

Average Percent Recovery	87.96

CONSTITUENT	Nitrate Nitrogen
LOWER RECOVERY LIMIT	87.00
UPPER RECOVERY LIMIT	110.00
	PERCENT RECOVERY

	90.00
	91.10
	94.00
	98.00
	99.10
	101.00
	102.70
	103.90
	110.00

Average Percent Recovery	98.87

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Oil and Grease

LOWER RECOVERY LIMIT 72.00
UPPER RECOVERY LIMIT 130.00

PERCENT RECOVERY

87.80
91.00
99.00
124.00
125.00
125.00
127.00

Average Percent Recovery 111.26

CONSTITUENT Pentachlorophenol

LOWER RECOVERY LIMIT 12.00
UPPER RECOVERY LIMIT 145.00

PERCENT RECOVERY

65.00
70.00
77.00
78.00
79.00
79.00
80.00
82.00
82.00
84.00
89.00
91.00
92.00

Average Percent Recovery 80.62

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Phenol
LOWER RECOVERY LIMIT	35.00
UPPER RECOVERY LIMIT	134.00
	PERCENT RECOVERY

	24.00
	44.00
	65.00
	65.00
	66.00
	66.00
	71.00
	73.00
	74.00
	77.00
	79.00
	84.00
	91.00

Average Percent Recovery	67.62

CONSTITUENT	Potassium
LOWER RECOVERY LIMIT	81.00
UPPER RECOVERY LIMIT	121.00
	PERCENT RECOVERY

	45.40
	51.10
	76.70
	77.70
	86.40
	96.00
	96.00
	98.20
	103.00
	103.60

Average Percent Recovery	83.41

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Pyrene
LOWER RECOVERY LIMIT	32.00
UPPER RECOVERY LIMIT	126.00
	PERCENT RECOVERY

	67.00
	74.00
	74.00
	82.00
	85.00
	86.00
	89.00
	90.00
	91.00
	92.00
	93.00
	100.00
	113.00

Average Percent Recovery	87.38

CONSTITUENT	Selenium
LOWER RECOVERY LIMIT	93.33
UPPER RECOVERY LIMIT	112.24
	PERCENT RECOVERY

	34.04
	42.00
	63.98
	78.92
	88.42
	94.21
	94.68

Average Percent Recovery	70.89

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Silver
LOWER RECOVERY LIMIT	80.00
UPPER RECOVERY LIMIT	118.00

PERCENT RECOVERY

74.40
86.80
87.00
96.70
97.30
98.00
101.00
104.00
105.60
106.40

Average Percent Recovery 95.72

CONSTITUENT	Sodium
LOWER RECOVERY LIMIT	95.00
UPPER RECOVERY LIMIT	104.00

PERCENT RECOVERY

44.20
49.00
97.20
98.30
99.00
99.20
99.50
100.20
101.00
101.17

Average Percent Recovery 88.88

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Sulfate
LOWER RECOVERY LIMIT	71.00
UPPER RECOVERY LIMIT	121.00

PERCENT RECOVERY

 92.50
 94.70
 95.50
 97.50
 98.80
 99.50
 104.30
 106.40
 123.70
 147.40

Average Percent Recovery 106.03

CONSTITUENT	Thallium
LOWER RECOVERY LIMIT	68.00
UPPER RECOVERY LIMIT	117.46

PERCENT RECOVERY

 12.39
 17.00
 22.45
 28.34
 38.49
 41.88
 42.26
 51.41
 54.59
 57.23
 66.53
 71.37
 74.00
 85.65

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Thallium
LOWER RECOVERY LIMIT	68.00
UPPER RECOVERY LIMIT	117.46

PERCENT RECOVERY

86.86
90.98
92.40
100.00

Average Percent Recovery 57.44

CONSTITUENT	Toluene
LOWER RECOVERY LIMIT	82.00
UPPER RECOVERY LIMIT	144.00

PERCENT RECOVERY

82.00
92.00
92.00
92.00
92.00
96.00
99.00
100.00
103.00
104.00
105.00
107.00
108.00
111.00
112.00
112.00
112.00
116.00
117.00

Average Percent Recovery 103.33

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Trichlorobenzene
LOWER RECOVERY LIMIT	36.00
UPPER RECOVERY LIMIT	110.00

PERCENT RECOVERY

86.00
89.00
91.00
91.00
91.00
92.00
93.00
94.00
95.00
98.00
101.00
105.00

Average Percent Recovery 93.83

CONSTITUENT	Trichloroethene
LOWER RECOVERY LIMIT	89.00
UPPER RECOVERY LIMIT	119.00

PERCENT RECOVERY

89.00
89.00
91.00
91.00
91.00
91.00
92.00
92.00
92.00
96.00
102.00
102.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT Trichloroethene

LOWER RECOVERY LIMIT 89.00
UPPER RECOVERY LIMIT 119.00

PERCENT RECOVERY

103.00
105.00
105.00
110.00
114.00
117.00

Average Percent Recovery 98.44

CONSTITUENT Vanadium

LOWER RECOVERY LIMIT 68.00
UPPER RECOVERY LIMIT 131.00

PERCENT RECOVERY

45.80
79.00
80.00
88.40
96.00
98.70
117.00

Average Percent Recovery 86.41

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	Zinc
LOWER RECOVERY LIMIT	64.00
UPPER RECOVERY LIMIT	128.00
	PERCENT RECOVERY

	76.20
	78.30
	83.00
	90.30
	90.80
	99.40
	101.00
	102.00
	103.00
	104.90

Average Percent Recovery	92.89

CONSTITUENT	1,1-Dichloroethene
LOWER RECOVERY LIMIT	86.00
UPPER RECOVERY LIMIT	116.00
	PERCENT RECOVERY

	86.00
	91.00
	94.00
	94.00
	94.00
	97.00
	97.00
	99.00
	101.00
	102.00
	102.00
	102.00
	103.00
	106.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT 1,1-Dichloroethene

LOWER RECOVERY LIMIT 86.00
UPPER RECOVERY LIMIT 116.00

PERCENT RECOVERY

107.00
110.00
115.00
115.00

Average Percent Recovery 100.83

CONSTITUENT 8015

LOWER RECOVERY LIMIT 58.50
UPPER RECOVERY LIMIT 142.70

PERCENT RECOVERY

82.00
83.00
85.00
85.00
87.00
87.00
89.00
91.00
92.00
94.00
95.00
96.00
96.00
97.00
102.00
103.00
107.00
109.00
110.00
112.00

SOIL SAMPLES COLLECTED FROM RI BORINGS
(6/90 - 10/90)

PALOS VERDES LANDFILL - DRAFT PRELIMINARY REMEDIAL
INVESTIGATION REPORT

CONSTITUENT	8015
LOWER RECOVERY LIMIT	58.50
UPPER RECOVERY LIMIT	142.70

PERCENT RECOVERY

	113.00
	116.00

Average Percent Recovery	96.86

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
B - 20, DEPTH: 11.0 FT., F.I. B-20-1	08/28/90	SJ01517	2-FLUOROPHENOL	73 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	89 %
			DECAFLUOROBIPHENYL	121 %
			2-FLUOROBIPHENYL	111 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	107 % 111 %
B - 20, DEPTH: 55.0 FT., F.I. B-20-3	08/28/90	SJ01518	2-FLUOROPHENOL	60 %
			PHENOL-D5	69 %
			NITROBENZENE-D5	90 %
			DECAFLUOROBIPHENYL	120 %
			2-FLUOROBIPHENYL	110 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	101 % 107 %
B - 24, DEPTH: 136.0 FT., F.I. B-24-10	09/11/90	SJ02147	2-FLUOROPHENOL	62 %
			PHENOL-D5	58 %
			NITROBENZENE-D5	86 %
			DECAFLUOROBIPHENYL	112 %
			2-FLUOROBIPHENYL	105 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	96 % 91 %
B - 24, DEPTH: 25.0 FT., F.I. B24-4	08/31/90	SJ01628	2-FLUOROPHENOL	68 %
			PHENOL-D5	80 %
			NITROBENZENE-D5	60 %
			DECAFLUOROBIPHENYL	118 %
			2-FLUOROBIPHENYL	111 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	91 % 119 %
B - 25, DEPTH: 28.0 FT., F.I. B-25-5	09/06/90	SJ01855	2-FLUOROPHENOL	71 %
			PHENOL-D5	80 %
			NITROBENZENE-D5	65 %
			DECAFLUOROBIPHENYL	89 %
			2-FLUOROBIPHENYL	89 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	94 % 78 %
B - 25, DEPTH: 48.0 FT., F.I. B-25-6	09/06/90	SJ01856	2-FLUOROPHENOL	72 %
			PHENOL-D5	77 %
			NITROBENZENE-D5	77 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)

PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
B - 25, DEPTH: 48.0 FT., F.I. B-25-6	09/06/90	SJ01856	DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	117 %
			P-TERPHENYL-D14	93 %
B - 26, DEPTH: 15.0 FT., F.I. B-26-2	09/11/90	SJ02148	2-FLUOROPHENOL	61 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBIPHENYL	115 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	106 %
L - 2, DEPTH: 145.0 FT., F.I. L-2-15	08/23/90	SJ01198	2-FLUOROPHENOL	46 %
			PHENOL-D5	57 %
			NITROBENZENE-D5	91 %
			DECAFLUOROBIPHENYL	126 %
			2-FLUOROBIPHENYL	112 %
			2,4,6-TRIBROMOPHENOL	119 %
L - 2, DEPTH: 159.0 FT., F.I. L-2-16	08/23/90	SJ01199	2-FLUOROPHENOL	58 %
			PHENOL-D5	55 %
			NITROBENZENE-D5	84 %
			DECAFLUOROBIPHENYL	124 %
			2-FLUOROBIPHENYL	115 %
			2,4,6-TRIBROMOPHENOL	109 %
L - 2, DEPTH: 68.0 FT., F.I. L-2-17	09/06/90	SJ01858	2-FLUOROPHENOL	72 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	86 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	119 %
L - 2, DEPTH: 98.0 FT., F.I. L-2-12	08/21/90	SJ01044	2-FLUOROPHENOL	55 %
			PHENOL-D5	63 %
			NITROBENZENE-D5	86 %
			DECAFLUOROBIPHENYL	102 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	116 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
L - 2, DEPTH: 98.0 FT., F.I. L-2-12	08/21/90	SJ01044	P-TERPHENYL-D14	102 %
L - 3, DEPTH: 142.0 FT., F.I. L-3-15	09/19/90	SJ02579	2-FLUOROPHENOL	84 %
			PHENOL-D5	86 %
			NITROBENZENE-D5	89 %
			DECAFLUOROBIPHENYL	110 %
			2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	110 %
			P-TERPHENYL-D14	104 %
L - 3, DEPTH: 10.0 FT., F.I. L-3-2	09/17/90	SJ02426	2-FLUOROPHENOL	42 %
			PHENOL-D5	51 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	102 %
			2-FLUOROBIPHENYL	100 %
			2,4,6-TRIBROMOPHENOL	93 %
			P-TERPHENYL-D14	106 %
L - 3, DEPTH: 162.0 FT., F.I. L-3-16	09/20/90	SJ02667	2-FLUOROPHENOL	79 %
			PHENOL-D5	81 %
			NITROBENZENE-D5	89 %
			DECAFLUOROBIPHENYL	102 %
			2-FLUOROBIPHENYL	100 %
			2,4,6-TRIBROMOPHENOL	108 %
			P-TERPHENYL-D14	100 %
L - 3, DEPTH: 197.0 FT., F.I. L-3-18	09/20/90	SJ02669	2-FLUOROPHENOL	74 %
			PHENOL-D5	73 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	120 %
			2-FLUOROBIPHENYL	106 %
			2,4,6-TRIBROMOPHENOL	115 %
			P-TERPHENYL-D14	109 %
L - 3, DEPTH: 218.0 FT., F.I. L-3-19	09/21/90	SJ02739	2-FLUOROPHENOL	69 %
			PHENOL-D5	71 %
			NITROBENZENE-D5	96 %
			DECAFLUOROBIPHENYL	114 %
			2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	110 %
			P-TERPHENYL-D14	105 %
L - 3, DEPTH: 232.0 FT., F.I. L-3-20	09/21/90	SJ02740	2-FLUOROPHENOL	81 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
L - 3, DEPTH: 232.0 FT., F.I. L-3-20	09/21/90	SJ02740	PHENOL-D5	81 %
			NITROBENZENE-D5	94 %
			DECAFLUOROBIPHENYL	112 %
			2-FLUOROBIPHENYL	105 %
			2,4,6-TRIBROMOPHENOL	109 %
P-TERPHENYL-D14	107 %			
L - 3, DEPTH: 262.0 FT., F.I. L-3-21	09/24/90	SJ02812	2-FLUOROPHENOL	79 %
			PHENOL-D5	79 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	106 %
			2-FLUOROBIPHENYL	100 %
2,4,6-TRIBROMOPHENOL	96 %			
P-TERPHENYL-D14	100 %			
L - 3, DEPTH: 282.0 FT., F.I. L-3-22	09/24/90	SJ02813	2-FLUOROPHENOL	74 %
			PHENOL-D5	72 %
			NITROBENZENE-D5	83 %
			DECAFLUOROBIPHENYL	106 %
			2-FLUOROBIPHENYL	98 %
2,4,6-TRIBROMOPHENOL	98 %			
P-TERPHENYL-D14	101 %			
L - 3, DEPTH: 323.0 FT., F.I. L-3-24	09/25/90	SJ02925	2-FLUOROPHENOL	79 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	86 %
			DECAFLUOROBIPHENYL	113 %
			2-FLUOROBIPHENYL	102 %
2,4,6-TRIBROMOPHENOL	98 %			
P-TERPHENYL-D14	105 %			
L - 3, DEPTH: 348.0 FT., F.I. L-3-25	09/25/90	SJ02926	2-FLUOROPHENOL	77 %
			PHENOL-D5	76 %
			NITROBENZENE-D5	80 %
			DECAFLUOROBIPHENYL	112 %
			2-FLUOROBIPHENYL	102 %
2,4,6-TRIBROMOPHENOL	98 %			
P-TERPHENYL-D14	104 %			
L - 3, DEPTH: 45.0 FT., F.I. L-3-8	09/17/90	SJ02425	2-FLUOROPHENOL	57 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	79 %
			DECAFLUOROBIPHENYL	121 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)

PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
L - 3, DEPTH: 45.0 FT., F.I. L-3-8	09/17/90	SJ02425	2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	94 %
			P-TERPHENYL-D14	100 %
L -1, DEPTH: 35.0 FT., F.I. L1-06	08/14/90	SJ00634	2-FLUOROPHENOL	70 %
			PHENOL-D5	67 %
			NITROBENZENE-D5	36 %
			DECAFLUOROBIPHENYL	101 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	67 %
L-2, DEPTH: 20 FT., F.I. L2-4	08/13/90	SJ00518	P-TERPHENYL-D14	91 %
			2-FLUOROPHENOL	70 %
			PHENOL-D5	61 %
			NITROBENZENE-D5	58 %
			DECAFLUOROBIPHENYL	89 %
			2-FLUOROBIPHENYL	90 %
			2,4,6-TRIBROMOPHENOL	84 %
P-TERPHENYL-D14	81 %			
RBF - 15, DEPTH: 90.0 FT., F.I. 2-006	06/11/90	SJ97708	2-FLUOROPHENOL	65 %
			PHENOL-D5	60 %
			NITROBENZENE-D5	90 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	110 %
			2,4,6-TRIBROMOPHENOL	101 %
RBF - 9, DEPTH: 215 FT., F.I. 4-0049	06/11/90	SJ97707	P-TERPHENYL-D14	96 %
			2-FLUOROPHENOL	71 %
			PHENOL-D5	77 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	118 %
			2-FLUOROBIPHENYL	106 %
RF B-15; DEPTH: 20.0 FT	06/06/90	SJ97558	2,4,6-TRIBROMOPHENOL	112 %
			P-TERPHENYL-D14	96 %
			2-FLUOROPHENOL	70 %
			PHENOL-D5	72 %
			NITROBENZENE-D5	85 %
			DECAFLUOROBIPHENYL	96 %
2-FLUOROBIPHENYL	90 %			
2,4,6-TRIBROMOPHENOL	73 %			
P-TERPHENYL-D14	83 %			

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RF B-15; DEPTH: 30.0 FT	06/06/90	SJ97559	2-FLUOROPHENOL	71 %
			PHENOL-D5	72 %
			NITROBENZENE-D5	83 %
			DECAFLUOROBIPHENYL	100 %
			2-FLUOROBIPHENYL	90 %
			2,4,6-TRIBROMOPHENOL	75 %
P-TERPHENYL-D14	84 %			
RF B-16; DEPTH: 45.0 FT	06/06/90	SJ97561	2-FLUOROPHENOL	80 %
			PHENOL-D5	91 %
			NITROBENZENE-D5	98 %
			DECAFLUOROBIPHENYL	113 %
			2-FLUOROBIPHENYL	109 %
			2,4,6-TRIBROMOPHENOL	92 %
P-TERPHENYL-D14	101 %			
RF B-16; DEPTH: 50.0 FT	06/06/90	SJ97562	2-FLUOROPHENOL	79 %
			PHENOL-D5	89 %
			NITROBENZENE-D5	103 %
			DECAFLUOROBIPHENYL	119 %
			2-FLUOROBIPHENYL	108 %
			2,4,6-TRIBROMOPHENOL	86 %
P-TERPHENYL-D14	103 %			
RF B-16; DEPTH: 55.0 FT	06/06/90	SJ97560	2-FLUOROPHENOL	80 %
			PHENOL-D5	85 %
			NITROBENZENE-D5	100 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	78 %
P-TERPHENYL-D14	91 %			
RFB - 1 DEPTH: 30 FT., F.I. 2-042	06/21/90	SJ98277	2-FLUOROPHENOL	66 %
			PHENOL-D5	74 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	124 %
			2-FLUOROBIPHENYL	81 %
			2,4,6-TRIBROMOPHENOL	99 %
P-TERPHENYL-D14	98 %			
RFB - 1 DEPTH: 35 FT., F.I. 2-043	06/21/90	SJ98278	2-FLUOROPHENOL	48 %
			PHENOL-D5	47 %
			NITROBENZENE-D5	71 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB - 1 DEPTH: 35 FT., F.I. 2-043	06/21/90	SJ98278	DECAFLUOROBI PHENYL	96 %
			2-FLUOROBI PHENYL	80 %
			2,4,6-TRIBROMOPHENOL	101 %
			P-TERPHENYL-D14	91 %
RFB - 1 DEPTH: 40 FT., F.I. 2-044	06/21/90	SJ98279	2-FLUOROPHENOL	47 %
			PHENOL-D5	56 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBI PHENYL	102 %
			2-FLUOROBI PHENYL	85 %
			2,4,6-TRIBROMOPHENOL	105 %
P-TERPHENYL-D14	111 %			
RFB - 1 DEPTH: 45 FT., F.I. 2-045	06/21/90	SJ98280	2-FLUOROPHENOL	33 %
			PHENOL-D5	35 %
			NITROBENZENE-D5	42 %
			DECAFLUOROBI PHENYL	58 %
			2-FLUOROBI PHENYL	49 %
			2,4,6-TRIBROMOPHENOL	54 %
P-TERPHENYL-D14	59 %			
RFB - 1 DEPTH: 50 FT., F.I. 2-046	06/21/90	SJ98281	2-FLUOROPHENOL	38 %
			PHENOL-D5	36 %
			NITROBENZENE-D5	66 %
			DECAFLUOROBI PHENYL	88 %
			2-FLUOROBI PHENYL	88 %
			2,4,6-TRIBROMOPHENOL	81 %
P-TERPHENYL-D14	76 %			
RFB - 1 DEPTH: 55 FT., F.I. 2-047	06/22/90	SJ98343	2-FLUOROPHENOL	31 %
			PHENOL-D5	39 %
			NITROBENZENE-D5	64 %
			DECAFLUOROBI PHENYL	86 %
			2-FLUOROBI PHENYL	90 %
			2,4,6-TRIBROMOPHENOL	78 %
P-TERPHENYL-D14	82 %			
RFB - 10 DEPTH: 10 FT., F.I. 2-031	06/19/90	SJ98144	2-FLUOROPHENOL	99 %
			PHENOL-D5	97 %
			NITROBENZENE-D5	103 %
			DECAFLUOROBI PHENYL	103 %
			2-FLUOROBI PHENYL	111 %
			2,4,6-TRIBROMOPHENOL	106 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB - 10 DEPTH: 10 FT., F.I. 2-031	06/19/90	SJ98144	P-TERPHENYL-D14	104 %
RFB - 10 DEPTH: 75 FT., F.I. 2-036	06/20/90	SJ98225	2-FLUOROPHENOL	50 %
			PHENOL-D5	51 %
			NITROBENZENE-D5	87 %
			DECAFLUOROBIPHENYL	89 %
			2-FLUOROBIPHENYL	106 %
			2,4,6-TRIBROMOPHENOL	94 %
			P-TERPHENYL-D14	79 %
RFB - 11 DEPTH: 29.5 FT., F.I. 3-051	06/25/90	SJ98423	2-FLUOROPHENOL	37 %
			PHENOL-D5	46 %
			NITROBENZENE-D5	79 %
			DECAFLUOROBIPHENYL	102 %
			2-FLUOROBIPHENYL	82 %
			2,4,6-TRIBROMOPHENOL	105 %
			P-TERPHENYL-D14	87 %
RFB - 11 DEPTH: 5.0 FT., F.I. 3-041	06/25/90	SJ98422	2-FLUOROPHENOL	29 %
			PHENOL-D5	33 %
			NITROBENZENE-D5	43 %
			DECAFLUOROBIPHENYL	55 %
			2-FLUOROBIPHENYL	53 %
			2,4,6-TRIBROMOPHENOL	52 %
			P-TERPHENYL-D14	71 %
RFB - 11 DEPTH: 149 FT., F.I. 3-063	06/27/90	SJ98582	2-FLUOROPHENOL	64 %
			PHENOL-D5	73 %
			NITROBENZENE-D5	99 %
			DECAFLUOROBIPHENYL	103 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	104 %
			P-TERPHENYL-D14	91 %
RFB - 11 DEPTH: 167.5 FT., F.I. 3-065	06/27/90	SJ98583	2-FLUOROPHENOL	74 %
			PHENOL-D5	77 %
			NITROBENZENE-D5	97 %
			DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	108 %
			2,4,6-TRIBROMOPHENOL	109 %
			P-TERPHENYL-D14	89 %
RFB - 12 DEPTH: 40.0, F.I. 3-028	06/12/90	SJ97778	2-FLUOROPHENOL	38 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)

PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB - 12 DEPTH: 40.0, F.I. 3-028	06/12/90	SJ97778	PHENOL-D5	35 %
			NITROBENZENE-D5	52 %
			DECAFLUOROBIPHENYL	64 %
			2-FLUOROBIPHENYL	65 %
			2,4,6-TRIBROMOPHENOL	56 %
P-TERPHENYL-D14	54 %			
RFB - 12 DEPTH: 45.0, F.I. 3-029	06/12/90	SJ97779	2-FLUOROPHENOL	61 %
			PHENOL-D5	62 %
			NITROBENZENE-D5	88 %
			DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	101 %
			2,4,6-TRIBROMOPHENOL	97 %
P-TERPHENYL-D14	81 %			
RFB - 12, DEPTH: 110 FT., F.I. 3-034	06/15/90	SJ98049	2-FLUOROPHENOL	95 %
			PHENOL-D5	93 %
			NITROBENZENE-D5	100 %
			DECAFLUOROBIPHENYL	108 %
			2-FLUOROBIPHENYL	107 %
			2,4,6-TRIBROMOPHENOL	110 %
P-TERPHENYL-D14	92 %			
RFB - 13 DEPTH: 15.0, F.I. 4-0021	06/12/90	SJ97780	2-FLUOROPHENOL	75 %
			PHENOL-D5	77 %
			NITROBENZENE-D5	92 %
			DECAFLUOROBIPHENYL	122 %
			2-FLUOROBIPHENYL	116 %
			2,4,6-TRIBROMOPHENOL	102 %
P-TERPHENYL-D14	104 %			
RFB - 13 DEPTH: 65.0, F.I. 4-0031	06/12/90	SJ97781	2-FLUOROPHENOL	79 %
			PHENOL-D5	79 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	110 %
			2,4,6-TRIBROMOPHENOL	98 %
P-TERPHENYL-D14	103 %			
RFB - 13 DEPTH: 100 FT., F.I. 4-0033	06/13/90	SJ97844	2-FLUOROPHENOL	80 %
			PHENOL-D5	76 %
			NITROBENZENE-D5	96 %
			DECAFLUOROBIPHENYL	133 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
(06/90 - 10/90)

PALOS VERDES LANDFILL
DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB - 13 DEPTH: 100 FT., F.I. 4-0033	06/13/90	SJ97844	2-FLUOROBIPHENYL	108 %
			2,4,6-TRIBROMOPHENOL	121 %
			P-TERPHENYL-D14	100 %
RFB - 13 DEPTH: 200 FT., F.I. 4-0037	06/18/90	SJ98088	2-FLUOROPHENOL	75 %
			PHENOL-D5	74 %
			NITROBENZENE-D5	107 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	117 %
			2,4,6-TRIBROMOPHENOL	127 %
RFB - 16 DEPTH: 195.0, F.I. 1-006	06/12/90	SJ97782	2-FLUOROPHENOL	51 %
			PHENOL-D5	45 %
			NITROBENZENE-D5	89 %
RFB - 16 DEPTH: 257 FT., F.I. C-001, CORING; UNREFRIGERATED	06/15/90	SJ98089	DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	107 %
			2,4,6-TRIBROMOPHENOL	92 %
			P-TERPHENYL-D14	91 %
			2-FLUOROPHENOL	95 %
			PHENOL-D5	94 %
RFB - 16 DEPTH: 306 FT., F.I. 1-012, CORING; UNREFRIGERATED	06/15/90	SJ98090	NITROBENZENE-D5	105 %
			DECAFLUOROBIPHENYL	112 %
			2-FLUOROBIPHENYL	109 %
			2,4,6-TRIBROMOPHENOL	107 %
			P-TERPHENYL-D14	106 %
			2-FLUOROPHENOL	79 %
RFB - 17, DEPTH: 40.0 FT., F.I. 3-079	07/06/90	SJ98951	PHENOL-D5	87 %
			NITROBENZENE-D5	97 %
			DECAFLUOROBIPHENYL	97 %
			2-FLUOROBIPHENYL	107 %
			2,4,6-TRIBROMOPHENOL	115 %
			P-TERPHENYL-D14	89 %
			2-FLUOROPHENOL	63 %
			PHENOL-D5	63 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	94 %
			P-TERPHENYL-D14	85 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 17, DEPTH: 145.0 FT., F.I. 2-100	07/09/90	SJ98996	2-FLUOROPHENOL	65 %
			PHENOL-D5	64 %
			NITROBENZENE-D5	85 %
			DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	84 %
RFB - 19, DEPTH: 100 FT., F.I. B19-10	07/31/90	SJ99951	P-TERPHENYL-D14	85 %
			2-FLUOROPHENOL	70 %
			PHENOL-D5	77 %
			NITROBENZENE-D5	76 %
			DECAFLUOROBIPHENYL	95 %
			2-FLUOROBIPHENYL	100 %
RFB - 19, DEPTH: 132.0 FT., F.I. B19-11	08/01/90	SJ99995	2,4,6-TRIBROMOPHENOL	83 %
			P-TERPHENYL-D14	89 %
			2-FLUOROPHENOL	74 %
			PHENOL-D5	86 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	110 %
RFB - 19, DEPTH: 171 FT., F.I. B19-13	08/02/90	SJ00063	2-FLUOROBIPHENYL	107 %
			2,4,6-TRIBROMOPHENOL	86 %
			P-TERPHENYL-D14	84 %
			2-FLUOROPHENOL	69 %
			PHENOL-D5	59 %
			NITROBENZENE-D5	91 %
RFB - 19, DEPTH: 191 FT., F.I. B19-14	08/02/90	SJ00064	DECAFLUOROBIPHENYL	106 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	91 %
			P-TERPHENYL-D14	94 %
			2-FLUOROPHENOL	57 %
			PHENOL-D5	55 %
RFB - 19, DEPTH: 25.0 FT., F.I. B-19-5	07/30/90	SJ99857	NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	100 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	86 %
RFB - 19, DEPTH: 25.0 FT., F.I. B-19-5	07/30/90	SJ99857	P-TERPHENYL-D14	95 %
			2-FLUOROPHENOL	65 %
			PHENOL-D5	72 %
RFB - 19, DEPTH: 25.0 FT., F.I. B-19-5	07/30/90	SJ99857	NITROBENZENE-D5	64 %

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 (06/90 - 10/90)
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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 19, DEPTH: 25.0 FT., F.I. B-19-5	07/30/90	SJ99857	DECAFLUOROBIPHENYL	83 %
			2-FLUOROBIPHENYL	75 %
			2,4,6-TRIBROMOPHENOL	72 %
			P-TERPHENYL-D14	89 %
RFB - 19, DEPTH: 50.0 FT., F.I. B-19-7	07/30/90	SJ99858	2-FLUOROPHENOL	78 %
			PHENOL-D5	86 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBIPHENYL	94 %
			2-FLUOROBIPHENYL	114 %
			2,4,6-TRIBROMOPHENOL	80 %
			P-TERPHENYL-D14	85 %
RFB - 2, DEPTH: 135.0 FT., F.I. 2-122	07/11/90	SJ99103	2-FLUOROPHENOL	66 %
			PHENOL-D5	64 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	101 %
			2-FLUOROBIPHENYL	95 %
			2,4,6-TRIBROMOPHENOL	78 %
			P-TERPHENYL-D14	85 %
RFB - 2, DEPTH: 150.0 FT., F.I. 2-124	07/11/90	SJ99165	2-FLUOROPHENOL	66 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	87 %
			DECAFLUOROBIPHENYL	117 %
			2-FLUOROBIPHENYL	109 %
			2,4,6-TRIBROMOPHENOL	105 %
			P-TERPHENYL-D14	86 %
RFB - 2, DEPTH: 80.0 FT., F.I. 2-116	07/10/90	SJ99045	2-FLUOROPHENOL	58 %
			PHENOL-D5	58 %
			NITROBENZENE-D5	79 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	97 %
			P-TERPHENYL-D14	88 %
RFB - 21, DEPTH: 15.0 FT., F.I. B21-02	07/26/90	SJ99721	2-FLUOROPHENOL	82 %
			PHENOL-D5	80 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	106 %
			2,4,6-TRIBROMOPHENOL	100 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)

PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB - 21, DEPTH: 15.0 FT., F.I. B21-02	07/26/90	SJ99721	P-TERPHENYL-D14	86 %
RFB - 21, DEPTH: 20.0 FT., F.I. B21-03	07/26/90	SJ99722	2-FLUOROPHENOL	79 %
			PHENOL-D5	76 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	104 %
RFB - 22, DEPTH: 9.0 FT., F.I. B22-1	08/02/90	SJ00062	P-TERPHENYL-D14	83 %
			2-FLUOROPHENOL	75 %
			PHENOL-D5	87 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	80 %
			2-FLUOROBIPHENYL	95 %
RFB - 22, DEPTH: 77.0 FT., F.I. B22-5	08/17/90	SJ00858	2,4,6-TRIBROMOPHENOL	86 %
			P-TERPHENYL-D14	100 %
			2-FLUOROPHENOL	61 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	70 %
			DECAFLUOROBIPHENYL	96 %
RFB - 22, DEPTH: 98.0 FT., F.I. B22-6	08/17/90	SJ00859	2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	92 %
			P-TERPHENYL-D14	106 %
			2-FLUOROPHENOL	45 %
			PHENOL-D5	47 %
			NITROBENZENE-D5	88 %
RFB - 23, DEPTH: 30.0 FT., F.I. B23-6	08/15/90	SJ00688	DECAFLUOROBIPHENYL	103 %
			2-FLUOROBIPHENYL	96 %
			2,4,6-TRIBROMOPHENOL	102 %
			P-TERPHENYL-D14	104 %
			2-FLUOROPHENOL	77 %
			PHENOL-D5	65 %
RFB - 23, DEPTH: 63.0 FT., F.I. B23-7 (LIM. SAMPLE)	08/15/90	SJ00689	NITROBENZENE-D5	80 %
			DECAFLUOROBIPHENYL	93 %
			2-FLUOROBIPHENYL	83 %
			2,4,6-TRIBROMOPHENOL	96 %
			P-TERPHENYL-D14	87 %
			2-FLUOROPHENOL	67 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 23, DEPTH: 63.0 FT., F.I. B23-7 (LIM. SAMPLE)	08/15/90	SJ00689	PHENOL-D5	68 %
			NITROBENZENE-D5	64 %
			DECAFLUOROBIPHENYL	82 %
			2-FLUOROBIPHENYL	92 %
			2,4,6-TRIBROMOPHENOL	84 %
			P-TERPHENYL-D14	86 %
RFB - 23, DEPTH: 78.0 FT., F.I. B-23-8 (LIM. SAMPLE)	08/15/90	SJ00692	2-FLUOROPHENOL	63 %
			PHENOL-D5	58 %
			NITROBENZENE-D5	58 %
			DECAFLUOROBIPHENYL	81 %
			2-FLUOROBIPHENYL	71 %
			2,4,6-TRIBROMOPHENOL	80 %
RFB - 24, DEPTH: 93.0 FT., F.I. B-24-8	09/10/90	SJ02039	2-FLUOROPHENOL	8 %
			PHENOL-D5	8 %
			NITROBENZENE-D5	5 %
			DECAFLUOROBIPHENYL	11 %
			2-FLUOROBIPHENYL	11 %
			2,4,6-TRIBROMOPHENOL	10 %
RFB - 25, DEPTH: 10.0 FT., F.I. B25-2	08/26/90	SJ01461	2-FLUOROPHENOL	73 %
			PHENOL-D5	83 %
			NITROBENZENE-D5	85 %
			DECAFLUOROBIPHENYL	110 %
			2-FLUOROBIPHENYL	110 %
			2,4,6-TRIBROMOPHENOL	104 %
RFB - 25, DEPTH: 146.0 FT., F.I. B-25-12	09/13/90	SJ02269	2-FLUOROPHENOL	55 %
			PHENOL-D5	53 %
			NITROBENZENE-D5	81 %
			DECAFLUOROBIPHENYL	115 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	96 %
RFB - 25, DEPTH: 88.0 FT., F.I. B-25-8	09/10/90	SJ02038	2-FLUOROPHENOL	55 %
			PHENOL-D5	55 %
			NITROBENZENE-D5	81 %
			DECAFLUOROBIPHENYL	112 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 25, DEPTH: 88.0 FT., F.I. B-25-8	09/10/90	SJ02038	2-FLUOROBIPHENYL	105 %
			2,4,6-TRIBROMOPHENOL	111 %
			P-TERPHENYL-D14	91 %
RFB - 26, DEPTH: 25.0 FT., F.I. B-26-4	09/12/90	SJ02210	2-FLUOROPHENOL	52 %
			PHENOL-D5	59 %
			NITROBENZENE-D5	46 %
			DECAFLUOROBIPHENYL	112 %
			2-FLUOROBIPHENYL	96 %
RFB - 27, DEPTH: 55.0 FT., F.I. B27-10	07/26/90	SJ99723	2,4,6-TRIBROMOPHENOL	75 %
			P-TERPHENYL-D14	88 %
			2-FLUOROPHENOL	71 %
			PHENOL-D5	70 %
			NITROBENZENE-D5	68 %
RFB - 27,DEPTH: 15 FT., F.I. B27-3	07/25/90	SJ99645	DECAFLUOROBIPHENYL	106 %
			2-FLUOROBIPHENYL	98 %
			2,4,6-TRIBROMOPHENOL	93 %
			P-TERPHENYL-D14	86 %
			2-FLUOROPHENOL	67 %
RFB - 28, DEPTH: 40 FT., F.I. B28-8	08/07/90	SJ00277	PHENOL-D5	75 %
			NITROBENZENE-D5	66 %
			DECAFLUOROBIPHENYL	115 %
			2-FLUOROBIPHENYL	101 %
			2,4,6-TRIBROMOPHENOL	78 %
RFB - 28, DEPTH: 65 FT., F.I. B28-12	08/07/90	SJ00278	P-TERPHENYL-D14	87 %
			2-FLUOROPHENOL	58 %
			PHENOL-D5	64 %
			NITROBENZENE-D5	43 %
			DECAFLUOROBIPHENYL	102 %
RFB - 28, DEPTH: 65 FT., F.I. B28-12	08/07/90	SJ00278	2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	73 %
			P-TERPHENYL-D14	96 %
			2-FLUOROPHENOL	76 %
			PHENOL-D5	72 %
RFB - 28, DEPTH: 65 FT., F.I. B28-12	08/07/90	SJ00278	NITROBENZENE-D5	53 %
			DECAFLUOROBIPHENYL	95 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	86 %
			P-TERPHENYL-D14	100 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 29, DEPTH: 280 FT., F.I. B29-16	08/27/90	SJ01331	2-FLUOROPHENOL	86 %
			PHENOL-D5	87 %
			NITROBENZENE-D5	103 %
			DECAFLUOROBIPHENYL	109 %
			2-FLUOROBIPHENYL	111 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	118 % 113 %
RFB - 3 DEPTH: 105 FT., F.I. 4-059	06/21/90	SJ98283	2-FLUOROPHENOL	53 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	73 %
			DECAFLUOROBIPHENYL	99 %
			2-FLUOROBIPHENYL	92 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	102 % 92 %
RFB - 3 DEPTH: 180 FT., F.I. 4-085	06/25/90	SJ98421	2-FLUOROPHENOL	40 %
			PHENOL-D5	55 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	103 %
			2-FLUOROBIPHENYL	91 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	100 % 93 %
RFB - 3 DEPTH: 95 FT., F.I. 4-057	06/21/90	SJ98282	2-FLUOROPHENOL	56 %
			PHENOL-D5	73 %
			NITROBENZENE-D5	76 %
			DECAFLUOROBIPHENYL	116 %
			2-FLUOROBIPHENYL	92 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	107 % 103 %
RFB - 3 DEPTH: 20 FT., F.I. 4-043	06/20/90	SJ98223	2-FLUOROPHENOL	55 %
			PHENOL-D5	63 %
			NITROBENZENE-D5	91 %
			DECAFLUOROBIPHENYL	96 %
			2-FLUOROBIPHENYL	106 %
			2,4,6-TRIBROMOPHENOL P-TERPHENYL-D14	121 % 83 %
RFB - 3 DEPTH: 30 FT., F.I. 4-045 (LIMITED SAMPLE)	06/20/90	SJ98224	2-FLUOROPHENOL	39 %
			PHENOL-D5	50 %
			NITROBENZENE-D5	71 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 3 DEPTH: 30 FT., F.I. 4-045 (LIMITED SAMPLE)	06/20/90	SJ98224	DECAFLUOROBIPHENYL	76 %
			2-FLUOROBIPHENYL	87 %
			2,4,6-TRIBROMOPHENOL	80 %
			P-TERPHENYL-D14	81 %
RFB - 30, DEPTH: 117.0 FT., F.I. B30-10	08/06/90	SJ00189	2-FLUOROPHENOL	81 %
			PHENOL-D5	83 %
			NITROBENZENE-D5	99 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	100 %
			2,4,6-TRIBROMOPHENOL	90 %
RFB - 30, DEPTH: 87.0 FT., F.I. B30-8	08/06/90	SJ00188	2-FLUOROPHENOL	79 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	96 %
			DECAFLUOROBIPHENYL	92 %
			2-FLUOROBIPHENYL	95 %
			2,4,6-TRIBROMOPHENOL	86 %
RFB - 31, DEPTH: 65.0 FT., F.I. 31-12	08/23/90	SJ01200	2-FLUOROPHENOL	64 %
			PHENOL-D5	63 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	114 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	107 %
RFB - 32, DEPTH: 10.0 FT., F.I. B32-2	08/08/90	SJ00349	2-FLUOROPHENOL	58 %
			PHENOL-D5	68 %
			NITROBENZENE-D5	3 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	101 %
			2,4,6-TRIBROMOPHENOL	76 %
RFB - 32, DEPTH: 336.0 FT., F.I. B32-25	08/15/90	SJ00690	2-FLUOROPHENOL	50 %
			PHENOL-D5	39 %
			NITROBENZENE-D5	75 %
			DECAFLUOROBIPHENYL	91 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	83 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 32, DEPTH: 336.0 FT., F.I. B32-25	08/15/90	SJ00690	P-TERPHENYL-D14	84 %
RFB - 32, DEPTH: 45.0 FT., F.I. B32-9	08/08/90	SJ00350	2-FLUOROPHENOL	71 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	69 %
			DECAFLUOROBIPHENYL	98 %
			2-FLUOROBIPHENYL	97 %
			2,4,6-TRIBROMOPHENOL	82 %
			P-TERPHENYL-D14	95 %
RFB - 32, DEPTH: 118.0 FT., F.I. B32-14	08/10/90	SJ00462	2-FLUOROPHENOL	56 %
			PHENOL-D5	50 %
			NITROBENZENE-D5	78 %
			DECAFLUOROBIPHENYL	94 %
			2-FLUOROBIPHENYL	74 %
			2,4,6-TRIBROMOPHENOL	74 %
			P-TERPHENYL-D14	96 %
RFB - 32, DEPTH: 175.0 FT., F.I. B32-17	08/13/90	SJ00519	2-FLUOROPHENOL	65 %
			PHENOL-D5	57 %
			NITROBENZENE-D5	86 %
			DECAFLUOROBIPHENYL	105 %
			2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	102 %
			P-TERPHENYL-D14	94 %
RFB - 32, DEPTH: 63.5 FT., F.I. B32-11	08/09/90	SJ00405	2-FLUOROPHENOL	78 %
			PHENOL-D5	83 %
			NITROBENZENE-D5	63 %
			DECAFLUOROBIPHENYL	101 %
			2-FLUOROBIPHENYL	110 %
			2,4,6-TRIBROMOPHENOL	90 %
			P-TERPHENYL-D14	84 %
RFB - 4, DEPTH: 10.0 FT., F.I. 1-036	07/10/90	SJ99046	2-FLUOROPHENOL	67 %
			PHENOL-D5	68 %
			NITROBENZENE-D5	85 %
			DECAFLUOROBIPHENYL	117 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	100 %
			P-TERPHENYL-D14	87 %
RFB - 4, DEPTH: 153.5 FT., F.I. 1-059	07/16/90	SJ99233	2-FLUOROPHENOL	58 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 4, DEPTH: 153.5 FT., F.I. 1-059	07/16/90	SJ99233	PHENOL-D5	56 %
			NITROBENZENE-D5	84 %
			DECAFLUOROBIPHENYL	114 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	100 %
P-TERPHENYL-D14	84 %			
RFB - 40 DEPTH: 65.0 FT., F.I. 2-069	07/02/90	SJ98791	2-FLUOROPHENOL	75 %
			PHENOL-D5	87 %
			NITROBENZENE-D5	90 %
			DECAFLUOROBIPHENYL	107 %
			2-FLUOROBIPHENYL	102 %
2,4,6-TRIBROMOPHENOL	106 %			
P-TERPHENYL-D14	87 %			
RFB - 40 DEPTH: 85.0 FT., F.I. 2-070	07/02/90	SJ98792	2-FLUOROPHENOL	56 %
			PHENOL-D5	82 %
			NITROBENZENE-D5	84 %
			DECAFLUOROBIPHENYL	103 %
			2-FLUOROBIPHENYL	88 %
2,4,6-TRIBROMOPHENOL	109 %			
P-TERPHENYL-D14	87 %			
RFB - 6 DEPTH: 100 FT., F.I. 2-026	06/13/90	SJ97843	2-FLUOROPHENOL	77 %
			PHENOL-D5	69 %
			NITROBENZENE-D5	94 %
			DECAFLUOROBIPHENYL	118 %
			2-FLUOROBIPHENYL	106 %
2,4,6-TRIBROMOPHENOL	107 %			
P-TERPHENYL-D14	102 %			
RFB - 6, DEPTH: 125 FT., F.I. 2-027	06/14/90	SJ97949	2-FLUOROPHENOL	79 %
			PHENOL-D5	82 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	92 %
			2-FLUOROBIPHENYL	129 %
2,4,6-TRIBROMOPHENOL	119 %			
P-TERPHENYL-D14	84 %			
RFB - 7 DEPTH: 293 FT., F.I. 1-034	07/02/90	SJ98790	2-FLUOROPHENOL	63 %
			PHENOL-D5	73 %
			NITROBENZENE-D5	89 %
			DECAFLUOROBIPHENYL	100 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 7 DEPTH: 293 FT., F.I. 1-034	07/02/90	SJ98790	2-FLUOROBIPHENYL	107 %
			2,4,6-TRIBROMOPHENOL	103 %
			P-TERPHENYL-D14	86 %
RFB - 7 DEPTH: 10.0 FT., F.I. 1-015	06/26/90	SJ98498	2-FLUOROPHENOL	71 %
			PHENOL-D5	78 %
			NITROBENZENE-D5	102 %
			DECAFLUOROBIPHENYL	123 %
			2-FLUOROBIPHENYL	114 %
			2,4,6-TRIBROMOPHENOL	118 %
P-TERPHENYL-D14	119 %			
RFB - 7 DEPTH: 25.0 FT., F.I. 1-019	06/26/90	SJ98499	2-FLUOROPHENOL	66 %
			PHENOL-D5	68 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	109 %
			2-FLUOROBIPHENYL	103 %
			2,4,6-TRIBROMOPHENOL	108 %
P-TERPHENYL-D14	72 %			
RFB - 7 DEPTH: 5.0 FT., F.I. 1-015	06/26/90	SJ98497	2-FLUOROPHENOL	75 %
			PHENOL-D5	69 %
			NITROBENZENE-D5	77 %
			DECAFLUOROBIPHENYL	93 %
			2-FLUOROBIPHENYL	100 %
			2,4,6-TRIBROMOPHENOL	105 %
P-TERPHENYL-D14	75 %			
RFB - 7 DEPTH: 70 FT., F.I. 1-022	06/27/90	SJ98581	2-FLUOROPHENOL	68 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	104 %
			DECAFLUOROBIPHENYL	123 %
			2-FLUOROBIPHENYL	119 %
			2,4,6-TRIBROMOPHENOL	118 %
P-TERPHENYL-D14	105 %			
RFB - 7, DEPTH 190 FT., F.I. 1-028	06/28/90	SJ98670	2-FLUOROPHENOL	68 %
			PHENOL-D5	75 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	101 %
			2-FLUOROBIPHENYL	98 %
			2,4,6-TRIBROMOPHENOL	99 %
P-TERPHENYL-D14	73 %			

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Sample Description	Sample Date	Sample Number	Test	Result
RFB - 8, DEPTH: 154 FT., F.I. 2-094	07/05/90	SJ98886	2-FLUOROPHENOL	78 %
			PHENOL-D5	78 %
			NITROBENZENE-D5	97 %
			DECAFLUOROBIPHENYL	95 %
			2-FLUOROBIPHENYL	99 %
			2,4,6-TRIBROMOPHENOL	94 %
P-TERPHENYL-D14	103 %			
RFB - 8, DEPTH: 79 FT., F.I. 2-078	07/05/90	SJ98885	2-FLUOROPHENOL	87 %
			PHENOL-D5	106 %
			NITROBENZENE-D5	103 %
			DECAFLUOROBIPHENYL	91 %
			2-FLUOROBIPHENYL	112 %
			2,4,6-TRIBROMOPHENOL	119 %
P-TERPHENYL-D14	101 %			
RFB - 8, DEPTH 35.0 FT., F.I. 2-058	06/28/90	SJ98671	2-FLUOROPHENOL	73 %
			PHENOL-D5	83 %
			NITROBENZENE-D5	112 %
			DECAFLUOROBIPHENYL	134 %
			2-FLUOROBIPHENYL	127 %
			2,4,6-TRIBROMOPHENOL	134 %
P-TERPHENYL-D14	129 %			
RFB - 8, DEPTH: 161.0 FT., F.I. 3-087	07/09/90	SJ98995	2-FLUOROPHENOL	64 %
			PHENOL-D5	59 %
			NITROBENZENE-D5	82 %
			DECAFLUOROBIPHENYL	104 %
			2-FLUOROBIPHENYL	98 %
			2,4,6-TRIBROMOPHENOL	90 %
P-TERPHENYL-D14	88 %			
RFB-11 DEPTH: 128 FT., F.I. 3-061	06/26/90	SJ98500	2-FLUOROPHENOL	62 %
			PHENOL-D5	64 %
			NITROBENZENE-D5	78 %
			DECAFLUOROBIPHENYL	101 %
			2-FLUOROBIPHENYL	104 %
			2,4,6-TRIBROMOPHENOL	99 %
P-TERPHENYL-D14	69 %			
RFB-14 DEPTH: 50.0 FT.	06/06/90	SJ97557	2-FLUOROPHENOL	68 %
			PHENOL-D5	74 %
			NITROBENZENE-D5	80 %

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Sample Description	Sample Date	Sample Number	Test	Result
RFB-14 DEPTH: 50.0 FT.	06/06/90	SJ97557	DECAFLUOROBIPHENYL	91 %
			2-FLUOROBIPHENYL	92 %
			2,4,6-TRIBROMOPHENOL	75 %
			P-TERPHENYL-D14	86 %
RFB-14; DEPTH: 155 FT., F.I. 3-013	06/07/90	SJ97578	2-FLUOROPHENOL	89 %
			PHENOL-D5	86 %
			NITROBENZENE-D5	94 %
			DECAFLUOROBIPHENYL	114 %
			2-FLUOROBIPHENYL	111 %
			2,4,6-TRIBROMOPHENOL	111 %
RFB-15 DEPTH: 40.0 FT., F.I. 2-001	06/07/90	SJ97644	2-FLUOROPHENOL	85 %
			PHENOL-D5	83 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	114 %
			2-FLUOROBIPHENYL	106 %
			2,4,6-TRIBROMOPHENOL	114 %
RFB-15 DEPTH: 45.0 FT., F.I. 2-002	06/07/90	SJ97645	2-FLUOROPHENOL	80 %
			PHENOL-D5	76 %
			NITROBENZENE-D5	100 %
			DECAFLUOROBIPHENYL	108 %
			2-FLUOROBIPHENYL	109 %
			2,4,6-TRIBROMOPHENOL	97 %
RFB-15 DEPTH: 75.0 FT., F.I. 2-005	06/07/90	SJ97646	2-FLUOROPHENOL	79 %
			PHENOL-D5	74 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	121 %
			2-FLUOROBIPHENYL	105 %
			2,4,6-TRIBROMOPHENOL	111 %
RFB-29, DEPTH: 138 FT., F.I. B-29-8	08/22/90	SJ01119	2-FLUOROPHENOL	55 %
			PHENOL-D5	58 %
			NITROBENZENE-D5	81 %
			DECAFLUOROBIPHENYL	111 %
			2-FLUOROBIPHENYL	114 %
			2,4,6-TRIBROMOPHENOL	116 %

LABORATORY SURROGATE SPIKE ANALYSIS RESULTS
 FOR SOIL SAMPLES COLLECTED DURING RI BORINGS
 (06/90 - 10/90)
 PALOS VERDES LANDFILL
 DRAFT PRELIMINARY REMEDIAL INVESTIGATION REPORT

Sample Description	Sample Date	Sample Number	Test	Result
RFB-29, DEPTH: 138 FT., F.I. B-29-8	08/22/90	SJ01119	P-TERPHENYL-D14	106 %
RFB-30, DEPTH: 189 FT., F.I. B30-15	08/08/90	SJ00348	2-FLUOROPHENOL	73 %
			PHENOL-D5	66 %
			NITROBENZENE-D5	85 %
			DECAFLUOROBIPHENYL	93 %
			2-FLUOROBIPHENYL	102 %
			2,4,6-TRIBROMOPHENOL	99 %
			P-TERPHENYL-D14	94 %
RFB-9 DEPTH: 75.0 FT., F.I. NOT PROVIDED	06/08/90	SJ97643	2-FLUOROPHENOL	71 %
			PHENOL-D5	76 %
			NITROBENZENE-D5	95 %
			DECAFLUOROBIPHENYL	125 %
			2-FLUOROBIPHENYL	114 %
			2,4,6-TRIBROMOPHENOL	116 %
			P-TERPHENYL-D14	113 %
RFB-9; DEPTH: 50 FT, NO F.I. PROVIDED	06/07/90	SJ97577	2-FLUOROPHENOL	78 %
			PHENOL-D5	81 %
			NITROBENZENE-D5	96 %
			DECAFLUOROBIPHENYL	113 %
			2-FLUOROBIPHENYL	114 %
			2,4,6-TRIBROMOPHENOL	79 %
			P-TERPHENYL-D14	109 %

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