

**DRAFT**



MEMO

TO : [Illegible]

FROM : [Illegible]

Date: 10/10/01

SUBJECT: [Illegible]

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**MEMORANDUM REPORT**

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Addendum Report, SPA 8026  
Page 2 of 11**DRAFT**

Sample I.D.: S-1  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Soil  
Project #: 0390044.02  
File #: harris3.rep

Compound	Result ---ug/kg (ppb)---	D.L.
Benzene	200	5
Chlorobenzene	ND	5
Ethylbenzene	140	5
Toluene	840	5
Xylenes	690	5
1,2-Dichlorobenzene	ND	5
1,3-Dichlorobenzene	ND	5
1,4-Dichlorobenzene	ND	5

1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100.

Addendum Report, EPA 507  
Page 3 of 11**DRAFT**

Sample I.D.: W-1  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Water  
Project #: 0390044.02  
File #: harris3.rep

| Compound            | Result             | D.L. |
|---------------------|--------------------|------|
|                     | ----ug/L (ppb)---- |      |
| Benzene             | 550                | 1.8  |
| Chlorobenzene       | ND                 | 2.5  |
| Ethylbenzene        | 380                | 2.5  |
| Toluene             | 140                | 2.5  |
| Xylenes             | 1900               | 2.5  |
| 1,2-Dichlorobenzene | ND                 | 2.5  |
| 1,3-Dichlorobenzene | ND                 | 2.5  |
| 1,4-Dichlorobenzene | ND                 | 2.5  |

D.L. = Detection Limit  
ND = Not Detected

Addendum Report, EPA 602  
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**DRAFT**

Sample I.D.: W-2  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Water  
Project #: 0390044.02  
File #: harris3.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L. |
|---------------------|------------------------------|------|
| Benzene             | 10                           | 0.7  |
| Chlorobenzene       | ND                           | 1    |
| Ethylbenzene        | ND                           | 1    |
| Toluene             | ND                           | 1    |
| Xylenes             | ND                           | 1    |
| 1,2-Dichlorobenzene | ND                           | 1    |
| 1,3-Dichlorobenzene | ND                           | 1    |
| 1,4-Dichlorobenzene | ND                           | 1    |

D.L. = Detection Limit  
ND = Not Detected

Addendum Report, EPA 602  
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**DRAFT**

Sample I.D.: W-3  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Water  
Project #: 0390044.02  
File #: harris3.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L. |
|---------------------|------------------------------|------|
| Benzene             | 420000                       | 70   |
| Chlorobenzene       | ND                           | 100  |
| Ethylbenzene        | 484000                       | 100  |
| Toluene             | 270000                       | 100  |
| Xylenes             | 668000                       | 100  |
| 1,2-Dichlorobenzene | ND                           | 100  |
| 1,3-Dichlorobenzene | ND                           | 100  |
| 1,4-Dichlorobenzene | ND                           | 100  |

D.L. = Detection Limit  
ND = Not Detected

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**DRAFT**

Sample I.D.: S-1  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Soil  
Project #: 0390044.02  
File #: harris3.rep

| Compound                  | Result              | D.L. |
|---------------------------|---------------------|------|
|                           | ----mg/kg (ppm)---- |      |
| Benzal chloride           | ND                  | 35   |
| Benzotrichloride          | ND                  | 35   |
| Benzyl chloride           | ND                  | 70   |
| 2-Chloronaphthalene       | ND                  | 70   |
| 1,2-Dichlorobenzene       | ND                  | 35   |
| 1,3-Dichlorobenzene       | ND                  | 35   |
| 1,4-Dichlorobenzene       | ND                  | 35   |
| Hexachlorobenzene         | ND                  | 5    |
| Hexachlorobutadiene       | ND                  | 5    |
| Hexachlorocyclohexane     | ND                  | 5    |
| Hexachlorocyclopentadiene | ND                  | 5    |
| Hexachloroethane          | ND                  | 5    |
| Tetrachlorobenzenes       | ND                  | 35   |
| 1,2,4-Trichlorobenzene    | ND                  | 35   |
| Pentachlorohexane         | ND                  | 35   |

D.L. = Detection Limit  
ND = Not Detected

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**DRAFT**

Sample I.D.: W-1  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Water  
Project #: 0390044.02  
File #: harris3.rep

| Compound                  | Result             | D.L. |
|---------------------------|--------------------|------|
|                           | ----mg/L (ppm)---- | ---- |
| Benzal chloride           | ND                 | 0.7  |
| Benzotrichloride          | ND                 | 0.7  |
| Benzyl chloride           | ND                 | 1.4  |
| 2-Chloronaphthalene       | ND                 | 1.4  |
| 1,2-Dichlorobenzene       | ND                 | 0.7  |
| 1,3-Dichlorobenzene       | ND                 | 0.7  |
| 1,4-Dichlorobenzene       | ND                 | 0.7  |
| Hexachlorobenzene         | ND                 | 0.3  |
| Hexachlorobutadiene       | ND                 | 0.1  |
| Hexachlorocyclohexane     | ND                 | 0.1  |
| Hexachlorocyclopentadiene | ND                 | 0.1  |
| Hexachloroethane          | ND                 | 0.1  |
| Tetrachlorobenzenes       | ND                 | 0.7  |
| 1,2,4-Trichlorobenzene    | ND                 | 0.7  |
| Pentachlorohexane         | ND                 | 0.7  |

D.L. = Detection Limit  
ND = Not Detected

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**DRAFT**

Sample I.D.: W-2  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Water  
Project #: 0390044.02  
File #: harris3.rep

| Compound                  | Result<br>----mg/L (ppm)---- | D.L. |
|---------------------------|------------------------------|------|
| Benzal chloride           | ND                           | 1.4  |
| Benzotrichloride          | ND                           | 1.4  |
| Benzyl chloride           | ND                           | 2.8  |
| 2-Chloronaphthalene       | ND                           | 2.8  |
| 1,2-Dichlorobenzene       | ND                           | 1.4  |
| 1,3-Dichlorobenzene       | ND                           | 1.4  |
| 1,4-Dichlorobenzene       | ND                           | 1.4  |
| Hexachlorobenzene         | ND                           | 0.2  |
| Hexachlorobutadiene       | ND                           | 0.2  |
| Hexachlorocyclohexane     | ND                           | 0.2  |
| Hexachlorocyclopentadiene | ND                           | 0.2  |
| Hexachloroethane          | ND                           | 0.2  |
| Tetrachlorobenzenes       | ND                           | 1.4  |
| 1,2,4-Trichlorobenzene    | ND                           | 1.4  |
| Pentachlorohexane         | ND                           | 1.4  |

D.L. = Detection Limit  
ND = Not Detected



Addendum Report, EPA 8120  
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Sample I.D.: W-3  
Date Received: 05/24/91  
Date Analyzed: 06/06/91  
Matrix: Soil  
Project #: 0390044.02  
File #: harris3.rep

| Compound                  | Result           | D.L. |
|---------------------------|------------------|------|
|                           | ---mg/L (ppm)--- | ---  |
| Benzal chloride           | ND               | 35   |
| Benzotrichloride          | ND               | 35   |
| Benzyl chloride           | ND               | 70   |
| 2-Chloronaphthalene       | ND               | 70   |
| 1,2-Dichlorobenzene       | ND               | 35   |
| 1,3-Dichlorobenzene       | ND               | 35   |
| 1,4-Dichlorobenzene       | ND               | 35   |
| Hexachlorobenzene         | ND               | 5    |
| Hexachlorobutadiene       | ND               | 5    |
| Hexachlorocyclohexane     | ND               | 5    |
| Hexachlorocyclopentadiene | ND               | 5    |
| Hexachloroethane          | ND               | 5    |
| Tetrachlorobenzenes       | ND               | 35   |
| 1,2,4-Trichlorobenzene    | ND               | 35   |
| Pentachlorohexane         | ND               | 35   |

D.L. = Detection Limit  
ND = Not Detected

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**DRAFT**

Sample I.D.: W-2  
Date Received: 05/24/91  
Date Analyzed: 05/31/91  
Matrix: water  
Project: 0390044.02  
File #: harris3.rep

| Compound  | EPA Number | Result<br>-----mg/L (ppm)----- | D.L.  |
|-----------|------------|--------------------------------|-------|
| Antimony  | 200.7      | ND                             | 1.5   |
| Arsenic   | 206.2      | 0.023                          | 0.002 |
| Beryllium | 200.7      | ND                             | 0.1   |
| Cadmium   | 200.7      | ND                             | 0.2   |
| Chromium  | 200.7      | 0.26                           | 0.05  |
| Copper    | 200.7      | 1.0                            | 0.1   |
| Lead      | 200.7      | 54.2                           | 0.5   |
| Mercury   | 245.1      | 0.073                          | 0.002 |
| Nickel    | 200.7      | ND                             | 0.5   |
| Selenium  | 270.2      | 0.01                           | 0.01  |
| Silver    | 200.7      | ND                             | 0.05  |
| Thallium  | 200.7      | ND                             | 1     |
| Zinc      | 200.7      | 19.8                           | 0.1   |

ND = Not Detected

D.L. = Detection Limit

Addendum Report, Metals  
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**DRAFT**

Sample I.D.: W-3  
Date Received: 05/23/91  
Date Analyzed: 05/31/91  
Matrix: Liquid  
Project: 0390044.02  
File #: harris3.rep

| Compound  | EPA Number | Result                | D.L  |
|-----------|------------|-----------------------|------|
|           |            | -----mg/kg (ppm)----- |      |
| Antimony  | 6010       | ND                    | 30   |
| Arsenic   | 7060       | 0.09                  | 0.04 |
| Beryllium | 6010       | ND                    | 2    |
| Cadmium   | 6010       | ND                    | 4    |
| Chromium  | 6010       | ND                    | 1    |
| Copper    | 6010       | ND                    | 2    |
| Lead      | 6010       | 105                   | 10   |
| Mercury   | 7471       | ND                    | 1.0  |
| Nickel    | 6010       | ND                    | 10   |
| Selenium  | 7740       | ND                    | 0.2  |
| Silver    | 6010       | ND                    | 1    |
| Thallium  | 6010       | ND                    | 20   |
| Zinc      | 6010       | 42                    | 2    |

ND = Not Detected

D.L. = Detection Limit

Quality Assurance Addendum Report  
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**DRAFT**

EPA 8015/602

Surrogate Spikes

| Lab ID           | aaa-TFToluene<br>-----% Recovery---- |
|------------------|--------------------------------------|
| 6617-0*          | 63                                   |
| 6617-2           | 96                                   |
| 6617-6           | 111                                  |
| 6617-10          | 93                                   |
| Control limits   | 55/137                               |
| # Outside limits | 0                                    |
| % Completeness   | 100                                  |

\* This sample is a soil analyzed by 8015/8020 with control limits of 49/137.

Matrix Spikes

| Lab ID           | Benzene<br>-----% Recovery----- | Toluene |
|------------------|---------------------------------|---------|
| 6600-2 Spk.      | 140                             | 100     |
| 6600-2 Spk Dup.  | 79                              | 97      |
| % RSD            | 56                              | 3.1     |
| Control limits   | 28/148                          | 35/138  |
| # Outside limits | 0                               | 0       |
| % Completeness   | 100                             | 100     |

Metals

Matrix Spikes

| Lab ID            | Sb   | Be     | Cd     | Cr     | Cu     | Pb     | Ni     |
|-------------------|------|--------|--------|--------|--------|--------|--------|
| 6617-21 Spk.      | 77   | 86     | 80     | 84     | 82     | 123    | 76     |
| 6617-21 Spk. Dup. | 67   | 84     | 78     | 70     | 78     | 80     | 74     |
| % RSD             | 14   | 2.4    | 2.5    | 18     | 5.0    | 42     | 2.7    |
| Control limits    | D/64 | 58/104 | 52/114 | 31/138 | 43/136 | 29/144 | 44/124 |
| # Outside limits  | 2    | 0      | 0      | 0      | 0      | 0      | 0      |
| % Completeness    | 0    | 100    | 100    | 100    | 100    | 100    | 100    |

| Lab ID            | Ag    | Tl     | Zn     | As    | Se    | Hg     |
|-------------------|-------|--------|--------|-------|-------|--------|
| 6617-21 Spk.      | 39    | 63     | *      | 86    | 116   | 75     |
| 6617-21 Spk. Dup. | 52    | 60     | *      | 77    | 106   | 65     |
| % RSD             | 29    | 4.9    | --     | 11    | 9.0   | 14     |
| Control limits    | 9/121 | 28/115 | 12/154 | 0/145 | D/157 | 15/184 |
| # Outside limits  | 0     | 0      | 2      | 0     | 0     | 0      |
| % Completeness    | 100   | 100    | 0      | 100   | 100   | 100    |

6617-21 Spk.

Quality Assurance Addendum Report  
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**DRAFT**

**EPA 418.1**

**Matrix Spikes**

|                  |            |
|------------------|------------|
| Sample ID        | % Recovery |
| 6618-1 Spk.      | 109        |
| 6618-1 Spk. Dup. | 109        |
| % RSD            | 0          |
| Control limits   | 91/126     |
| % Outside limits | 0          |
| % Completeness   | 100        |

**Notes:**

Note that Matrix Spikes are not project specific. Therefore, spike information shown on this report may not be from the same project; however, they were analyzed in the same analytical batch.

**Definitions:**

**Spike:** A sample from the analytical batch which has been spiked with the parameter(s) of interest at a known concentration.

**Spike Duplicate:** A duplicate of the spiked sample.

**Mean:** The average spike recoveries, from both spikes and spike duplicates.

**% RSD:** Relative Standard Deviation between a Spike and a Spike Duplicate.  

$$\%RSD = [(Spike - Spk. Dup.) / Mean] * 100$$

**% SD:** % Standard Deviation. Used when there is more than one Spike and Spike Duplicate.

Control limits are taken from Test Methods for Evaluating Solid Waste, EPA SW-846, Third Edition, November 1986. Where control limits are not explicitly stated in SW-846, they are calculated by SCS Analytical Laboratory for internal use from existing spike data. Control limits are found by calculating three standard deviations above and below the mean of the population.

DAILY FIELD REPORT

DRAFT

PROJECT Harrison St Garage PROJECT NO. 6390244-02 DATE 5.23.1991

LOCATION 1432 Harrison St. Oakland CLIENT \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ SUPERINTENDENT \_\_\_\_\_

WEATHER CONDITIONS Sunny warm

TRAVEL TIME 1 hr 20 min MILEAGE \_\_\_\_\_ FIELDTIME 3 hrs 30 min

EQUIPMENT USED \_\_\_\_\_

| TIME    |   |
|---------|---|
| 5:00 PM | Arrived at the site. Mr. Paul Smith from Alameda Co. Health Department was present at the site. John Chung (SCS) also present.  |
|         | <p>First sampling was done at the Blue street (basement level) separator. The water sample was taken in three 1-liter jars. Another 1-liter jar was half filled for analysis of acidity. The contents of this jar was preserved by adding citric acid. One 1-liter jar was also preserved with sulphuric acid for analysis of total oil and grease (TOIG). The sample was designated as W-2. The sample was also collected for four 40 ml VOAs for analysis of BOD and 80:55. Mr. Paul Smith also collected one 40 ml VOA for his analysis.</p> |
|         | Total quantity 3.5 liters in 4 1-liter jars & 40 ml VOAs.   |

ENGINEER/GEOLOGIST/INSPECTOR [Signature] (Boobler)  
REVIEWED BY \_\_\_\_\_ SHEET 1 OF 4

DRAFT

DAILY FIELD REPORT

PROJECT Harrison St. Garage PROJECT NO. 0390044-02 DATE 5.23.1991

LOCATION 1432 Harrison St. Oakland CLIENT \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ SUPERINTENDENT \_\_\_\_\_

WEATHER CONDITIONS Sunny, Warm

TRAVEL TIME 1 hr. 20 min MILEAGE \_\_\_\_\_ FIELD TIME 3 hr 30 min

EQUIPMENT USED \_\_\_\_\_

TIME

The sample W-2 was collected using hand operated siphon and deep laddle.

- The second sample was collected in the capped pipe in <sup>the basement</sup> the sample was designated W-3. ~~The~~ strong gasoline smell was emanating from the liquid. The liquid was collected in one 1-liter jar bottle for the analysis of 8015D, 413.i, 8120 and Priority Pollutant Metals. The sample was also collected in a 40 ml VOA's for analysis of 602 and 8015 G. Mr. Smith did not take sample in this sample for his analysis.

The sample was collected by using a battery operated siphon.

- The third samples were collected in wood rack above at the Harrison Street level garage. A sludge sample from the sump

ENGINEER/GEOL OGIST/INSPECTOR \_\_\_\_\_

REVIEWED BY \_\_\_\_\_ SHEET 2 OF 4

DAILY FIELD REPORT

DRAFT

PROJECT Harrison St. Garage PROJECT NO. 0390044-02 DATE 5-23-1991

LOCATION 1432 Harrison St. Oakland CLIENT \_\_\_\_\_

CONTRACTOR \_\_\_\_\_ SUPERINTENDENT \_\_\_\_\_

WEATHER CONDITIONS Sunny, warm

TRAVEL TIME 1 hr. 20 min MILEAGE \_\_\_\_\_ FIELDTIME 3 hr 30 min

EQUIPMENT USED \_\_\_\_\_

|      |   |
|------|---|
| TIME | <p>was collected and designated as S-1. The sludge was decomposing and white patches of bacterial growth can be seen in the sludge and the material was gray. The sample was collected in 2 500 ml wide mouthed jars.</p> <p>Mr Paul Smith also took a sample of the sludge for his analysis in a jar.</p> <p>The water sample was collected from the rising pipe next to the pump. The sample was collected in 3 1-liter jars. One jar was preserved for the analysis of total oil and grease. The sample was also collected in 4 20 ml VOCs for analysis of 802 and 805 G. Other analysis requested 8015 D, B, 20 and 415 L. The sample was collected using latex gloves disposable haters.</p> <p>All the samples were sealed thoroughly and</p> |
|------|---|

ENGINEER/GEOLOGIST/INSPECTOR \_\_\_\_\_

REVIEWED BY \_\_\_\_\_ SHEET 3 OF 4





DAILY FIELD REPORT

DRAFT

1015 Harrison St. Garage PROJECT NO. 1290246 (P) May 20, 1991

1015 Harrison St. (P) \_\_\_\_\_

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\_\_\_\_\_ 30 min

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