

**SCS ENGINEERS**

July 30, 1990  
File No. 0390009.00

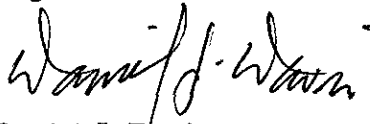
Mr. Gil Wistar  
Department of Environmental Health  
80 Swan Way, Room 200  
Oakland, California 94621

Dear Gil:

Attached are the results of the last sampling of the monitor wells and remediation system at Montgomery Ward, Dublin. Included is the laboratory report and chain-of-custody. The next sampling date will be during the week of August 6.

If you have any questions, please call (415) 829-0661.

Regards,



Daniel J. Davis  
Staff Geologist  
SCS Engineers

DJD/sar

July 30, 1990  
 File No. 0390009.00  
 Montgomery Ward, Dublin Site

Analytical Results - Monitor Wells and Remediation System

SAMPLE DATE: April 18, 1990

|                 | MW5  | MW10 | MW15 | MW16 | 12SI (inflow) | SO (discharge) |
|-----------------|------|------|------|------|---------------|----------------|
| ( --- ppm --- ) |      |      |      |      |               |                |
| TPH             | 14   | 12   | ND   | 2    | 22            | ND             |
| benzene         | 9.08 | 6.98 | ND   | 1.71 | 4.57          | ND             |
| toluene         | 1.04 | 0.27 | ND   | 0.07 | 5.21          | ND             |
| ethylbenzene    | 0.59 | 0.35 | ND   | 0.10 | 0.59          | ND             |
| xylene          | 0.71 | 0.25 | ND   | 0.08 | 3.45          | ND             |

SAMPLE DATE: May 14, 1990

|              |       |      |    |      |      |       |
|--------------|-------|------|----|------|------|-------|
| TPH          | 14    | 5    | ND | 2    | 12   | ND    |
| benzene      | 10.30 | 5.6  | ND | 1.13 | 4.11 | 0.006 |
| toluene      | 1.04  | 0.17 | ND | 0.05 | 4.58 | 0.002 |
| ethylbenzene | 0.57  | 0.13 | ND | 0.02 | 0.66 | ND    |
| xylene       | 0.77  | 0.27 | ND | 0.06 | 4.04 | 0.002 |

SAMPLE DATE: June 12, 1990

|              |      |      |       |       |      |       |
|--------------|------|------|-------|-------|------|-------|
| TPH          | 16.9 | 9.6  | ND    | 1.3   | 21   | ND    |
| benzene      | 10.4 | 4.54 | 0.003 | 0.395 | 4.04 | 0.009 |
| toluene      | 1.20 | 0.29 | 0.002 | 0.05  | 3.00 | 0.120 |
| ethylbenzene | 0.61 | 0.32 | 0.003 | 0.02  | 0.50 | 0.046 |
| xylene       | 0.94 | 0.62 | 0.025 | 0.09  | 3.27 | 0.280 |

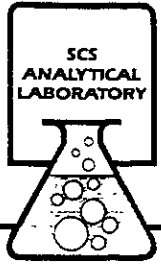
File No. 0390009.00  
Montgomery Ward, Dublin Site

Analytical Results - Monitor Wells and Remediation System

SAMPLE DATE: July 11, 1990

|              | MW5             | MW10 | MW15  | MW16  | 12SI (inflow) | SO (discharge) |
|--------------|-----------------|------|-------|-------|---------------|----------------|
|              | ( --- ppm --- ) |      |       |       |               |                |
| TPH          | 34.0            | 17.0 | ND    | 3.5   | 45.0          | ND             |
| benzene      | 6.00            | 2.00 | 0.001 | 0.51  | 2.60          | 0.0008         |
| toluene      | 1.10            | 0.13 | 0.003 | 0.078 | 2.30          | 0.001          |
| ethylbenzene | 0.20            | 0.12 | ND    | 0.015 | 0.365         | ND             |
| xylene       | 0.68            | 0.15 | 0.004 | 0.11  | 1.80          | 0.004          |

JUL 30 1990



2860 WALNUT AVENUE  
LONG BEACH, CALIFORNIA 90806  
(213) 595-9324  
FAX (213) 595-6709

MEMO

To: Dan Davis

From: Curtis B. Jenkins

July 26, 1990

Job No.: 0390009

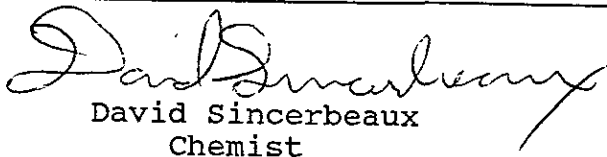
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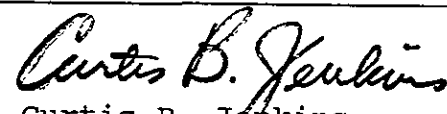
LABORATORY REPORT

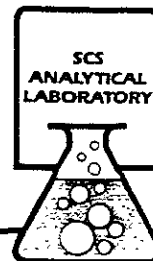
Samples: Eight (8) water samples, from Montgomery Ward -  
Remediation, 6900 Amador Plaza, Dublin, CA. Received  
7/12/90, analyzed 7/19/90.

| Sample ID    | EPA 8015 (G)   |
|--------------|----------------|
|              | -----mg/L----- |
| SI12         | 45.0           |
| SO           | ND             |
| MW16         | 3.5            |
| MW10         | 17.0           |
| MW5          | 34.0           |
| MW15         | ND             |
| Fieldblank 1 | ND             |
| Fieldblank 2 | ND             |

Detection Limit 0.5  
ND - Not Detected  
G - Gasoline

  
David Sincerbeaux  
Chemist

  
Curtis B. Jenkins  
Vice President, Analytical Srv.



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Addendum Report, EPA 602  
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Sample I.D.: SI12  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L.<br>---- |
|---------------------|------------------------------|--------------|
| Benzene             | 2,600                        | 0.7          |
| Chlorobenzene       | ND                           | 1            |
| Ethylbenzene        | 365                          | 1            |
| Toluene             | 2,300                        | 1            |
| Xylenes             | 1,800                        | 1            |
| 1,2-Dichlorobenzene | ND                           | 1            |
| 1,3-Dichlorobenzene | ND                           | 1            |
| 1,4-Dichlorobenzene | ND                           | 1            |

D.L. = Detection Limit  
ND = Not Detected



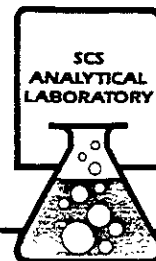
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Sample I.D.: SO  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result<br>----ug/L (ppb) | D.L.<br>---- |
|---------------------|--------------------------|--------------|
| Benzene             | 0.8                      | 0.7          |
| Chlorobenzene       | ND                       | 1            |
| Ethylbenzene        | ND                       | 1            |
| Toluene             | 1.0                      | 1            |
| Xylenes             | 4.0                      | 1            |
| 1,2-Dichlorobenzene | ND                       | 1            |
| 1,3-Dichlorobenzene | ND                       | 1            |
| 1,4-Dichlorobenzene | ND                       | 1            |

D.L. = Detection Limit  
ND = Not Detected



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Sample I.D.: MW16  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result             | D.L. |
|---------------------|--------------------|------|
|                     | ----ug/L (ppb)---- |      |
| Benzene             | 510                | 0.7  |
| Chlorobenzene       | ND                 | 1    |
| Ethylbenzene        | 15.0               | 1    |
| Toluene             | 78.0               | 1    |
| Xylenes             | 110                | 1    |
| 1,2-Dichlorobenzene | ND                 | 1    |
| 1,3-Dichlorobenzene | ND                 | 1    |
| 1,4-Dichlorobenzene | ND                 | 1    |

D.L. = Detection Limit  
ND = Not Detected



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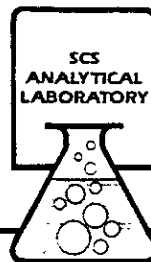
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Sample I.D.: MW10  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L. |
|---------------------|------------------------------|------|
| Benzene             | 2,000                        | 3.5  |
| Chlorobenzene       | ND                           | 5.0  |
| Ethylbenzene        | 120                          | 5.0  |
| Toluene             | 130                          | 5.0  |
| Xylenes             | 150                          | 5.0  |
| 1,2-Dichlorobenzene | ND                           | 5.0  |
| 1,3-Dichlorobenzene | ND                           | 5.0  |
| 1,4-Dichlorobenzene | ND                           | 5.0  |

D.L. = Detection Limit  
ND = Not Detected





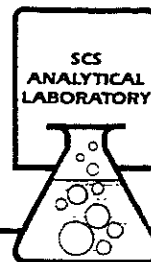
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Sample I.D.: MW5  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L. |
|---------------------|------------------------------|------|
| Benzene             | 6,000                        | 3.5  |
| Chlorobenzene       | ND                           | 5.0  |
| Ethylbenzene        | 200                          | 5.0  |
| Toluene             | 1,100                        | 5.0  |
| Xylenes             | 680                          | 5.0  |
| 1,2-Dichlorobenzene | ND                           | 5.0  |
| 1,3-Dichlorobenzene | ND                           | 5.0  |
| 1,4-Dichlorobenzene | ND                           | 5.0  |

D.L. = Detection Limit  
ND = Not Detected



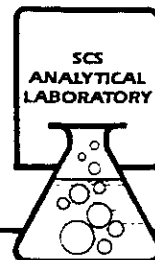
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Sample I.D.: MW15  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result             | D.L. |
|---------------------|--------------------|------|
|                     | ----ug/L (ppb)---- |      |
| Benzene             | 1.0                | 0.7  |
| Chlorobenzene       | ND                 | 1    |
| Ethylbenzene        | ND                 | 1    |
| Toluene             | 3.0                | 1    |
| Xylenes             | 4.0                | 1    |
| 1,2-Dichlorobenzene | ND                 | 1    |
| 1,3-Dichlorobenzene | ND                 | 1    |
| 1,4-Dichlorobenzene | ND                 | 1    |

D.L. = Detection Limit  
ND = Not Detected



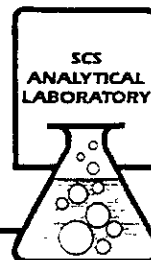
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Sample I.D.: Fieldblank 1  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

| Compound            | Result<br>----ug/L (ppb)---- | D.L. |
|---------------------|------------------------------|------|
| Benzene             | 0.8                          | 0.7  |
| Chlorobenzene       | ND                           | 1    |
| Ethylbenzene        | ND                           | 1    |
| Toluene             | 3.0                          | 1    |
| Xylenes             | 3.0                          | 1    |
| 1,2-Dichlorobenzene | ND                           | 1    |
| 1,3-Dichlorobenzene | ND                           | 1    |
| 1,4-Dichlorobenzene | ND                           | 1    |

D.L. = Detection Limit  
ND = Not Detected



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2860 WALNUT AVENUE  
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Sample I.D.: Fieldblank 2  
Date Received: 7/12/90  
Date Analyzed: 7/19/90  
Matrix: Water  
Project #: 390009  
File #: mward4.rep

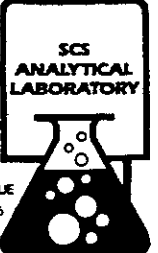
| Compound            | Result             | D.L. |
|---------------------|--------------------|------|
|                     | ----ug/L (ppb)---- |      |
| Benzene             | ND                 | 0.7  |
| Chlorobenzene       | ND                 | 1    |
| Ethylbenzene        | ND                 | 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

# CHAIN OF CUSTODY RECORD

431

7/11/90



**PERSONNEL**

**SITE INFORMATION**

2860 WALNUT AVENUE  
LONG BEACH, CALIFORNIA 90806  
(213) 595-9324

Sampler (Signature) [Signature]

Job Name Montgomery Ward Remediation

Phone 915/929-6661

Job Number 0396009.00

Field Crew Supervisor \_\_\_\_\_

Sample Location 6900 Amador Plaza

Field Company \_\_\_\_\_

Dublin, CA 94568

Project Geologist/Engineer DANIEL J. DAVIS

P.O. Number \_\_\_\_\_

Relinquished by (Signature) [Signature]  
7/11/90

Received by (Signature) [Signature]

Date 7/11/90

Time 4:50 PM

Relinquished by (Signature) \_\_\_\_\_

Received by (Signature) \_\_\_\_\_

Date \_\_\_\_\_

Time \_\_\_\_\_

Analysis laboratory should complete "sample cond. upon receipt" section below, sign, and return copy to Shipper

| Sample Number | Sample Type | No. of Cont. | Site Identification | Date Sampled | Analysis Requested | Sample Cond. Upon Receipt |
|---------------|-------------|--------------|---------------------|--------------|--------------------|---------------------------|
| SI 12         | water       | 1            | influent            | 7/11/90      | 80156, 8020        | _____                     |
| 50            |             |              | effluent            |              |                    |                           |
| MW 16         |             |              | well                |              |                    |                           |
| MW 10         |             |              |                     |              |                    |                           |
| MW 5          |             |              |                     |              |                    |                           |
| MW 15         |             |              |                     |              |                    |                           |
| Field Blank 1 |             |              |                     |              |                    |                           |
| Field Blank 2 |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |
| _____         |             |              |                     |              |                    |                           |

Remarks: Specimen is damaged and ENSOY 1 And thank you for the certificate!