



FINAL

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541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

#### ANALYTICAL REPORT FOR SAMPLES

| Sample ID      | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|----------------|---------------|--------|----------------|----------------|
| North Slough 1 | P3H0458-01    | Soil   | 08/14/03 13:10 | 08/14/03 14:18 |
| North Slough 2 | P3H0458-02    | Soil   | 08/14/03 13:15 | 08/14/03 14:18 |
| Bybee Lake 1   | P3H0458-03    | Soil   | 08/14/03 13:25 | 08/14/03 14:18 |
| Bybee Lake 2   | P3H0458-04    | Soil   | 08/14/03 13:30 | 08/14/03 14:18 |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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**Environmental Laboratory Network**

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

**Reported:**  
09/03/03 09:45

**Total Metals per EPA 6000/7000 Series Methods**  
**North Creek Analytical - Portland**

| Analyte                                 | Result | Reporting Limit | Units     | Dilution | Method                               | Prepared | Analyzed | Batch   | Notes |
|---|--------|-----------------|-----------|----------|--------------------------------------|----------|----------|---------|-------|
| <b>North Slough 1 (P3H0458-01) Soil</b> |        |                 |           |          | Sampled: 08/14/03 Received: 08/14/03 |          |          |         |       |
| Arsenic                                 | 6.45   | 0.446           | mg/kg dry | 1        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Copper                                  | 33.4   | 1.79            | "         | "        | "                                    | "        | "        | "       |       |
| Lead                                    | 20.5   | 0.446           | "         | "        | "                                    | "        | "        | "       |       |
| Mercury                                 | 0.109  | 0.0500          | "         | "        | EPA 7471A                            | 08/18/03 | 08/18/03 | 3080557 |       |
| Nickel                                  | 21.9   | 0.893           | "         | "        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Zinc                                    | 118    | 1.79            | "         | "        | "                                    | "        | "        | "       |       |
| <b>North Slough 2 (P3H0458-02) Soil</b> |        |                 |           |          | Sampled: 08/14/03 Received: 08/14/03 |          |          |         |       |
| Arsenic                                 | 5.06   | 0.394           | mg/kg dry | 1        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Copper                                  | 30.5   | 1.57            | "         | "        | "                                    | "        | "        | "       |       |
| Lead                                    | 15.3   | 0.394           | "         | "        | "                                    | "        | "        | "       |       |
| Mercury                                 | 0.0620 | 0.0463          | "         | "        | EPA 7471A                            | 08/18/03 | 08/18/03 | 3080557 |       |
| Nickel                                  | 22.8   | 0.787           | "         | "        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Zinc                                    | 159    | 1.57            | "         | "        | "                                    | "        | "        | "       |       |
| <b>Bybee Lake 1 (P3H0458-03) Soil</b>   |        |                 |           |          | Sampled: 08/14/03 Received: 08/14/03 |          |          |         |       |
| Arsenic                                 | 7.49   | 0.424           | mg/kg dry | 1        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Copper                                  | 41.2   | 1.69            | "         | "        | "                                    | "        | "        | "       |       |
| Lead                                    | 37.0   | 0.424           | "         | "        | "                                    | "        | "        | "       |       |
| Mercury                                 | 0.0793 | 0.0641          | "         | "        | EPA 7471A                            | 08/18/03 | 08/18/03 | 3080557 |       |
| Nickel                                  | 22.0   | 0.847           | "         | "        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Zinc                                    | 145    | 1.69            | "         | "        | "                                    | "        | "        | "       |       |
| <b>Bybee Lake 2 (P3H0458-04) Soil</b>   |        |                 |           |          | Sampled: 08/14/03 Received: 08/14/03 |          |          |         |       |
| Arsenic                                 | 6.73   | 0.500           | mg/kg dry | 1        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Copper                                  | 29.8   | 2.00            | "         | "        | "                                    | "        | "        | "       |       |
| Lead                                    | 18.4   | 0.500           | "         | "        | "                                    | "        | "        | "       |       |
| Mercury                                 | 0.0467 | 0.0439          | "         | "        | EPA 7471A                            | 08/18/03 | 08/18/03 | 3080557 |       |
| Nickel                                  | 22.2   | 1.00            | "         | "        | EPA 6020                             | 08/21/03 | 08/28/03 | 3080716 |       |
| Zinc                                    | 110    | 2.00            | "         | "        | "                                    | "        | "        | "       |       |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Organochlorine Pesticides per EPA Method 8081A**  
**North Creek Analytical - Portland**

| Analyte                                 | Result | Reporting Limit | Units     | Dilution | Method    | Prepared                             | Analyzed | Batch   | Notes |
|---|--------|-----------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| <b>North Slough 1 (P3H0458-01) Soil</b> |        |                 |           |          |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| Aldrin                                  | ND     | 6.70            | ug/kg dry | 1        | EPA 8081A | 08/19/03                             | 08/21/03 | 3080605 |       |
| alpha-BHC                               | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| beta-BHC                                | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| delta-BHC                               | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| gamma-BHC (Lindane)                     | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| gamma-Chlordane                         | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| alpha-Chlordane                         | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Chlordane (tech)                        | ND     | 150             | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDD                                | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDE                                | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDT                                | ND     | 13.4            | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Dieldrin                                | ND     | 6.70            | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Endosulfan I                            | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan II                           | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan sulfate                      | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin                                  | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin aldehyde                         | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin ketone                           | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor                              | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor epoxide                      | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Methoxychlor                            | ND     | 13.4            | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Toxaphene                               | ND     | 200             | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Surr: Decachlorobiphenyl                | 100 %  | 16-149          |           |          |           |                                      |          |         |       |
| Surr: 2,4,5,6-Tetrachloro-m-xylene      | 76.8 % | 36-140          |           |          |           |                                      |          |         |       |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

### Organochlorine Pesticides per EPA Method 8081A North Creek Analytical - Portland

| Analyte                                 | Result | Reporting Limit | Units     | Dilution | Method                               | Prepared | Analyzed | Batch   | Notes |
|---|--------|-----------------|-----------|----------|--------------------------------------|----------|----------|---------|-------|
| <b>North Slough 2 (P3H0458-02) Soil</b> |        |                 |           |          | Sampled: 08/14/03 Received: 08/14/03 |          |          |         |       |
| Aldrin                                  | ND     | 6.70            | ug/kg dry | 1        | EPA 8081A                            | 08/19/03 | 08/21/03 | 3080605 |       |
| alpha-BHC                               | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| beta-BHC                                | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| delta-BHC                               | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| gamma-BHC (Lindane)                     | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| gamma-Chlordane                         | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| alpha-Chlordane                         | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Chlordane (tech)                        | ND     | 150             | "         | "        | "                                    | "        | "        | "       |       |
| 4,4'-DDD                                | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| 4,4'-DDE                                | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| 4,4'-DDT                                | ND     | 13.4            | "         | 2        | "                                    | "        | 08/21/03 | "       | R-05  |
| Dieldrin                                | ND     | 6.70            | "         | 1        | "                                    | "        | 08/21/03 | "       |       |
| Endosulfan I                            | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Endosulfan II                           | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Endosulfan sulfate                      | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Endrin                                  | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Endrin aldehyde                         | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Endrin ketone                           | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Heptachlor                              | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Heptachlor epoxide                      | ND     | 6.70            | "         | "        | "                                    | "        | "        | "       |       |
| Methoxychlor                            | ND     | 13.4            | "         | 2        | "                                    | "        | 08/21/03 | "       | R-05  |
| Toxaphene                               | ND     | 200             | "         | 1        | "                                    | "        | 08/21/03 | "       |       |
| Surr: Decachlorobiphenyl                | 90.3 % | 16-149          |           |          |                                      |          |          |         |       |
| Surr: 2,4,5,6-Tetrachloro-m-xylene      | 75.1 % | 36-140          |           |          |                                      |          |          |         |       |

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Organochlorine Pesticides per EPA Method 8081A**  
**North Creek Analytical - Portland**

| Analyte                               | Result | Reporting Limit | Units     | Dilution | Method    | Prepared                             | Analyzed | Batch   | Notes |
|---------------------------------------|--------|-----------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| <b>Bybee Lake 1 (P3H0458-03) Soil</b> |        |                 |           |          |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| Aldrin                                | ND     | 6.70            | ug/kg dry | 1        | EPA 8081A | 08/19/03                             | 08/21/03 | 3080605 |       |
| alpha-BHC                             | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| beta-BHC                              | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| delta-BHC                             | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| gamma-BHC (Lindane)                   | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| gamma-Chlordane                       | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| alpha-Chlordane                       | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Chlordane (tech)                      | ND     | 150             | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDD                              | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDE                              | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDT                              | ND     | 13.4            | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Dieldrin                              | ND     | 6.70            | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Endosulfan I                          | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan II                         | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan sulfate                    | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin                                | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin aldehyde                       | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Endrin ketone                         | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor                            | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor epoxide                    | ND     | 6.70            | "         | "        | "         | "                                    | "        | "       |       |
| Methoxychlor                          | ND     | 13.4            | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Toxaphene                             | ND     | 200             | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Surr: Decachlorobiphenyl              | 96.3 % | 16-149          |           |          |           |                                      |          |         |       |
| Surr: 2,4,5,6-Tetrachloro-m-xylene    | 73.5 % | 36-140          |           |          |           |                                      |          |         |       |

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Organochlorine Pesticides per EPA Method 8081A**  
**North Creek Analytical - Portland**

| Analyte                               | Result | Reporting<br>Limit | Units     | Dilution | Method    | Prepared                             | Analyzed | Batch   | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| <b>Bybee Lake 2 (P3H0458-04) Soil</b> |        |                    |           |          |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| Aldrin                                | ND     | 6.70               | ug/kg dry | 1        | EPA 8081A | 08/19/03                             | 08/21/03 | 3080605 |       |
| alpha-BHC                             | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| beta-BHC                              | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| delta-BHC                             | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| gamma-BHC (Lindane)                   | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| gamma-Chlordane                       | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| alpha-Chlordane                       | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Chlordane (tech)                      | ND     | 150                | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDD                              | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDE                              | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| 4,4'-DDT                              | ND     | 13.4               | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Dieldrin                              | ND     | 6.70               | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Endosulfan I                          | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan II                         | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Endosulfan sulfate                    | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Endrin                                | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Endrin aldehyde                       | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Endrin ketone                         | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor                            | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Heptachlor epoxide                    | ND     | 6.70               | "         | "        | "         | "                                    | "        | "       |       |
| Methoxychlor                          | ND     | 13.4               | "         | 2        | "         | "                                    | 08/21/03 | "       | R-05  |
| Toxaphene                             | ND     | 200                | "         | 1        | "         | "                                    | 08/21/03 | "       |       |
| Surr: Decachlorobiphenyl              | 93.7 % | 16-149             |           |          |           |                                      |          |         |       |
| Surr: 2,4,5,6-Tetrachloro-m-xylene    | 73.5 % | 36-140             |           |          |           |                                      |          |         |       |

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Crystal Jones, Project Manager

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

| Analyte                                 | Result | Reporting Limit | Units     | Dilution | Method    | Prepared                             | Analyzed | Batch   | Notes |
|---|--------|-----------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| <b>North Slough 1 (P3H0458-01) Soil</b> |        |                 |           |          |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| Acenaphthene                            | ND     | 13.4            | ug/kg dry | 1        | EPA 8270m | 08/18/03                             | 08/20/03 | 3080555 |       |
| Acenaphthylene                          | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Anthracene                              | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (a) anthracene                    | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (a) pyrene                        | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (b) fluoranthene                  | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (ghi) perylene                    | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (k) fluoranthene                  | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Chrysene                                | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Dibenzo (a,h) anthracene                | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Fluoranthene                            | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Fluorene                                | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Indeno (1,2,3-cd) pyrene                | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Naphthalene                             | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Phenanthrene                            | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Pyrene                                  | ND     | 13.4            | "         | "        | "         | "                                    | "        | "       |       |
| Surr: Fluorene-d10                      | 105 %  | 40-150          |           |          |           |                                      |          |         |       |
| Surr: Pyrene-d10                        | 131 %  | 40-150          |           |          |           |                                      |          |         |       |
| Surr: Benzo (a) pyrene-d12              | 124 %  | 40-150          |           |          |           |                                      |          |         |       |

|   |    |      |           |   |           |                                      |          |         |  |
|---|----|------|-----------|---|-----------|--------------------------------------|----------|---------|--|
| <b>North Slough 2 (P3H0458-02) Soil</b> |    |      |           |   |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |  |
| Acenaphthene                            | ND | 13.4 | ug/kg dry | 1 | EPA 8270m | 08/18/03                             | 08/21/03 | 3080555 |  |
| Acenaphthylene                          | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Anthracene                              | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Benzo (a) anthracene                    | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Benzo (a) pyrene                        | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Benzo (b) fluoranthene                  | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Benzo (ghi) perylene                    | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Benzo (k) fluoranthene                  | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Chrysene                                | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Dibenzo (a,h) anthracene                | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Fluoranthene                            | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Fluorene                                | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Indeno (1,2,3-cd) pyrene                | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Naphthalene                             | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Phenanthrene                            | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |
| Pyrene                                  | ND | 13.4 | "         | " | "         | "                                    | "        | "       |  |

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Crystal Jones, Project Manager

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541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

**Reported:**  
09/03/03 09:45

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

| Analyte | Result | Reporting<br>Limit | Units | Dilution | Method | Prepared | Analyzed | Batch | Notes |
|---------|--------|--------------------|-------|----------|--------|----------|----------|-------|-------|
|---------|--------|--------------------|-------|----------|--------|----------|----------|-------|-------|

**North Slough 2 (P3H0458-02) Soil**

Sampled: 08/14/03 Received: 08/14/03

|                            |       |        |
|----------------------------|-------|--------|
| Surr: Fluorene-d10         | 103 % | 40-150 |
| Surr: Pyrene-d10           | 132 % | 40-150 |
| Surr: Benzo (a) pyrene-d12 | 131 % | 40-150 |

**Bybee Lake 1 (P3H0458-03) Soil**

Sampled: 08/14/03 Received: 08/14/03

|                            |       |        |           |   |           |          |          |         |      |
|----------------------------|-------|--------|-----------|---|-----------|----------|----------|---------|------|
| Acenaphthene               | ND    | 13.4   | ug/kg dry | 1 | EPA 8270m | 08/18/03 | 08/21/03 | 3080555 |      |
| Acenaphthylene             | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Anthracene                 | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Benzo (a) anthracene       | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Benzo (a) pyrene           | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Benzo (b) fluoranthene     | ND    | 13.4   | "         | " | "         | "        | "        | "       | R-08 |
| Benzo (ghi) perylene       | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Benzo (k) fluoranthene     | ND    | 13.4   | "         | " | "         | "        | "        | "       | R-08 |
| Chrysene                   | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Dibenzo (a,h) anthracene   | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Fluoranthene               | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Fluorene                   | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Indeno (1,2,3-cd) pyrene   | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Naphthalene                | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Phenanthrene               | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Pyrene                     | ND    | 13.4   | "         | " | "         | "        | "        | "       |      |
| Surr: Fluorene-d10         | 110 % | 40-150 |           |   |           |          |          |         |      |
| Surr: Pyrene-d10           | 140 % | 40-150 |           |   |           |          |          |         |      |
| Surr: Benzo (a) pyrene-d12 | 125 % | 40-150 |           |   |           |          |          |         |      |

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Polynuclear Aromatic Compounds per EPA 8270M-SIM**  
**North Creek Analytical - Portland**

| Analyte                               | Result | Reporting<br>Limit | Units     | Dilution | Method    | Prepared                             | Analyzed | Batch   | Notes |
|---------------------------------------|--------|--------------------|-----------|----------|-----------|--------------------------------------|----------|---------|-------|
| <b>Bybee Lake 2 (P3H0458-04) Soil</b> |        |                    |           |          |           | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| Acenaphthene                          | ND     | 13.4               | ug/kg dry | 1        | EPA 8270m | 08/18/03                             | 08/21/03 | 3080555 |       |
| Acenaphthylene                        | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Anthracene                            | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (a) anthracene                  | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (a) pyrene                      | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (b) fluoranthene                | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (ghi) perylene                  | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Benzo (k) fluoranthene                | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Chrysene                              | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Dibenzo (a,h) anthracene              | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Fluoranthene                          | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Fluorene                              | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Indeno (1,2,3-cd) pyrene              | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Naphthalene                           | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Phenanthrene                          | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Pyrene                                | ND     | 13.4               | "         | "        | "         | "                                    | "        | "       |       |
| Surr: Fluorene-d10                    | 105 %  | 40-150             |           |          |           |                                      |          |         |       |
| Surr: Pyrene-d10                      | 136 %  | 40-150             |           |          |           |                                      |          |         |       |
| Surr: Benzo (a) pyrene-d12            | 133 %  | 40-150             |           |          |           |                                      |          |         |       |

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600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Percent Dry Weight (Solids) per Standard Methods**  
**North Creek Analytical - Portland**

| Analyte                                 | Result | Reporting<br>Limit | Units | Dilution | Method  | Prepared                             | Analyzed | Batch   | Notes |
|---|--------|--------------------|-------|----------|---------|--------------------------------------|----------|---------|-------|
| <b>North Slough 1 (P3H0458-01) Soil</b> |        |                    |       |          |         | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| % Solids                                | 70.4   | 1.00 % by Weight   |       | 1        | NCA SOP | 08/19/03                             | 08/20/03 | 3080631 |       |
| <b>North Slough 2 (P3H0458-02) Soil</b> |        |                    |       |          |         | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| % Solids                                | 68.6   | 1.00 % by Weight   |       | 1        | NCA SOP | 08/19/03                             | 08/20/03 | 3080631 |       |
| <b>Bybee Lake 1 (P3H0458-03) Soil</b>   |        |                    |       |          |         | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| % Solids                                | 68.6   | 1.00 % by Weight   |       | 1        | NCA SOP | 08/19/03                             | 08/20/03 | 3080631 |       |
| <b>Bybee Lake 2 (P3H0458-04) Soil</b>   |        |                    |       |          |         | Sampled: 08/14/03 Received: 08/14/03 |          |         |       |
| % Solids                                | 75.3   | 1.00 % by Weight   |       | 1        | NCA SOP | 08/19/03                             | 08/20/03 | 3080631 |       |

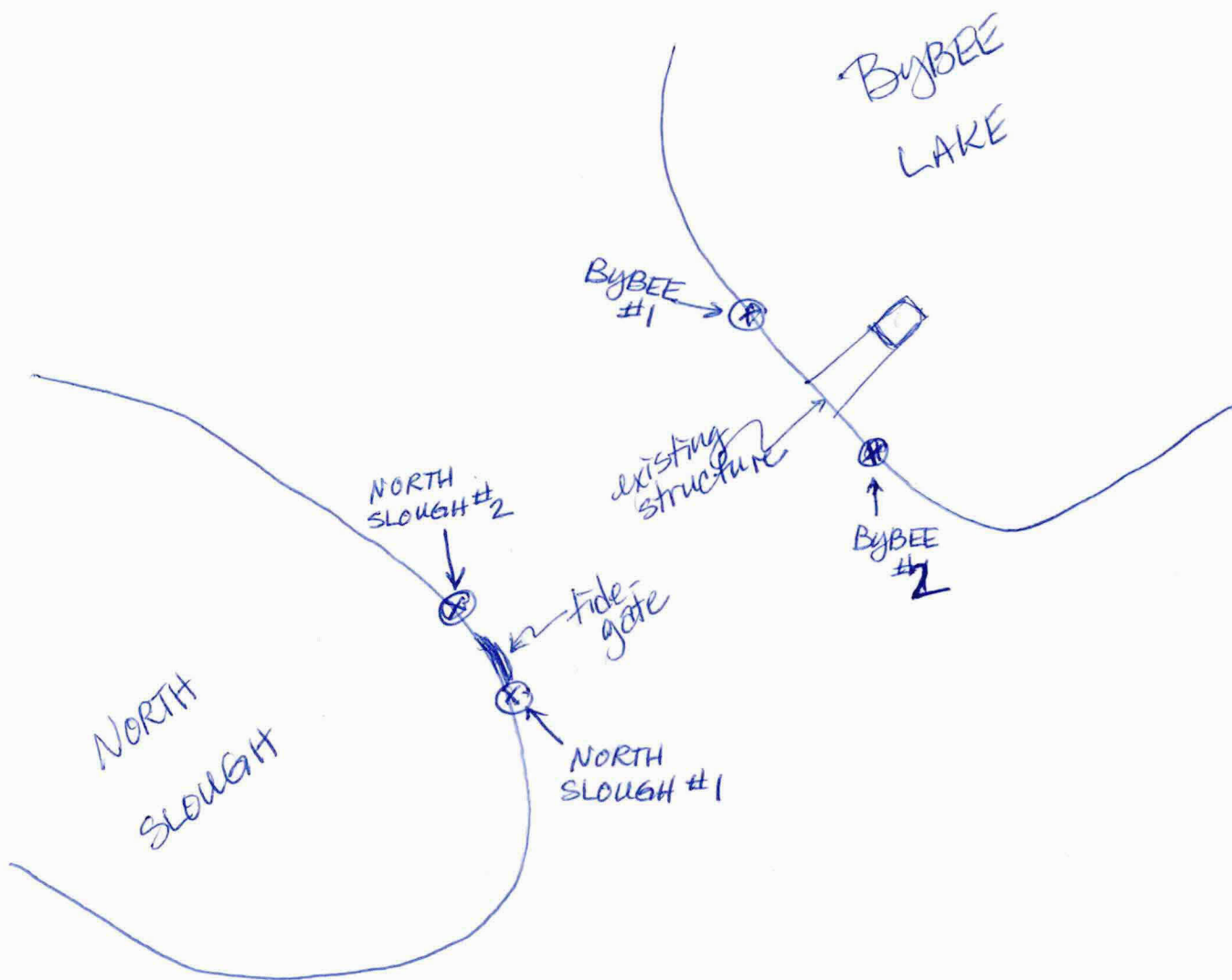
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SOIL/SEDIMENT SAMPLE  
LOCATIONS. 8/14/03.



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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

### Total Metals per EPA 6000/7000 Series Methods - Quality Control

#### North Creek Analytical - Portland

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch 3080557 - EPA 7471

##### Blank (3080557-BLK1)

Prepared & Analyzed: 08/18/03

Mercury ND 0.100 mg/kg

##### LCS (3080557-BS1)

Prepared & Analyzed: 08/18/03

Mercury 1.11 0.100 mg/kg 1.00 111 80-120

##### Duplicate (3080557-DUP1)

Source: P3H0468-01

Prepared & Analyzed: 08/18/03

Mercury 0.0132 0.0714 mg/kg dry ND 40

##### Matrix Spike (3080557-MS1)

Source: P3H0468-01

Prepared & Analyzed: 08/18/03

Mercury 0.902 0.0806 mg/kg dry 0.868 ND 104 75-125

#### Batch 3080716 - EPA 3050

##### Blank (3080716-BLK2)

Prepared: 08/21/03 Analyzed: 08/27/03

Arsenic ND 0.500 mg/kg  
Copper ND 2.00 "  
Lead ND 0.500 "  
Nickel ND 1.00 "  
Zinc ND 2.00 "

##### LCS (3080716-BS2)

Prepared: 08/21/03 Analyzed: 08/27/03

Arsenic 10.0 0.500 mg/kg 10.0 100 80-120  
Copper 11.0 2.00 " 10.0 110 80-120  
Lead 10.8 0.500 " 10.0 108 80-120  
Nickel 11.1 1.00 " 10.0 111 80-120  
Zinc 9.92 2.00 " 10.0 99.2 80-120

North Creek Analytical - Portland

Crystal Jones, Project Manager

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541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Total Metals per EPA 6000/7000 Series Methods - Quality Control**

**North Creek Analytical - Portland**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

**Batch 3080716 - EPA 3050**

**Duplicate (3080716-DUP1)** Source: P3H0369-01 Prepared: 08/21/03 Analyzed: 08/27/03

|         |      |       |           |  |      |  |      |    |  |
|---------|------|-------|-----------|--|------|--|------|----|--|
| Arsenic | 2.64 | 0.450 | mg/kg dry |  | 2.34 |  | 12.0 | 40 |  |
| Copper  | 53.3 | 1.80  | "         |  | 50.6 |  | 5.20 | 40 |  |
| Lead    | 69.2 | 0.450 | "         |  | 47.8 |  | 36.6 | 40 |  |
| Nickel  | 31.1 | 0.901 | "         |  | 21.6 |  | 36.1 | 40 |  |
| Zinc    | 327  | 1.80  | "         |  | 383  |  | 15.8 | 40 |  |

**Matrix Spike (3080716-MS1)** Source: P3H0369-01 Prepared: 08/21/03 Analyzed: 08/29/03

|         |      |       |           |      |      |       |        |  |  |
|---------|------|-------|-----------|------|------|-------|--------|--|--|
| Arsenic | 12.2 | 0.500 | mg/kg dry | 9.53 | 2.34 | 103   | 75-125 |  |  |
| Copper  | 84.3 | 2.00  | "         | 9.53 | 50.6 | >300% | 75-125 |  |  |
| Lead    | 78.9 | 0.500 | "         | 9.53 | 47.8 | >300% | 75-125 |  |  |
| Nickel  | 40.8 | 1.00  | "         | 9.53 | 21.6 | 201   | 75-125 |  |  |
| Zinc    | 353  | 2.00  | "         | 9.53 | 383  | -315  | 75-125 |  |  |

**Matrix Spike (3080716-MS2)** Source: P3H0369-02 Prepared: 08/21/03 Analyzed: 08/29/03

|         |      |       |           |      |      |       |        |  |  |
|---------|------|-------|-----------|------|------|-------|--------|--|--|
| Arsenic | 12.9 | 0.410 | mg/kg dry | 8.59 | 3.55 | 109   | 75-125 |  |  |
| Copper  | 84.4 | 1.64  | "         | 8.59 | 64.0 | 237   | 75-125 |  |  |
| Lead    | 75.9 | 0.410 | "         | 8.59 | 57.8 | 211   | 75-125 |  |  |
| Nickel  | 39.0 | 0.820 | "         | 8.59 | 23.7 | 178   | 75-125 |  |  |
| Zinc    | 380  | 1.64  | "         | 8.59 | 339  | >300% | 75-125 |  |  |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

### Organochlorine Pesticides per EPA Method 8081A - Quality Control

#### North Creek Analytical - Portland

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 3080605 - EPA 3550

##### Blank (3080605-BLK1)

Prepared: 08/19/03 Analyzed: 08/21/03

|                                    |      |      |       |      |  |      |        |  |  |  |
|------------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Aldrin                             | ND   | 6.70 | ug/kg |      |  |      |        |  |  |  |
| alpha-BHC                          | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| beta-BHC                           | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| delta-BHC                          | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| gamma-BHC (Lindane)                | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| gamma-Chlordane                    | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| alpha-Chlordane                    | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Chlordane (tech)                   | ND   | 150  | "     |      |  |      |        |  |  |  |
| 4,4'-DDD                           | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| 4,4'-DDE                           | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| 4,4'-DDT                           | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Dieldrin                           | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endosulfan I                       | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endosulfan II                      | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endosulfan sulfate                 | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endrin                             | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endrin aldehyde                    | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Endrin ketone                      | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Heptachlor                         | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Heptachlor epoxide                 | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Methoxychlor                       | ND   | 6.70 | "     |      |  |      |        |  |  |  |
| Toxaphene                          | ND   | 200  | "     |      |  |      |        |  |  |  |
| Surr: Decachlorobiphenyl           | 32.3 |      | "     | 33.3 |  | 97.0 | 16-149 |  |  |  |
| Surr: 2,4,5,6-Tetrachloro-m-xylene | 25.9 |      | "     | 33.3 |  | 77.8 | 36-140 |  |  |  |

##### LCS (3080605-BS1)

Prepared: 08/19/03 Analyzed: 08/21/03

|                                    |      |      |       |      |  |      |        |  |  |  |
|------------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Aldrin                             | 28.6 | 6.70 | ug/kg | 33.3 |  | 85.9 | 64-136 |  |  |  |
| gamma-BHC (Lindane)                | 28.6 | 6.70 | "     | 33.3 |  | 85.9 | 62-140 |  |  |  |
| 4,4'-DDT                           | 34.3 | 6.70 | "     | 33.3 |  | 103  | 65-130 |  |  |  |
| Dieldrin                           | 28.5 | 6.70 | "     | 33.3 |  | 85.6 | 70-135 |  |  |  |
| Endrin                             | 29.7 | 6.70 | "     | 33.3 |  | 89.2 | 65-135 |  |  |  |
| Heptachlor                         | 28.7 | 6.70 | "     | 33.3 |  | 86.2 | 48-124 |  |  |  |
| Surr: Decachlorobiphenyl           | 32.4 |      | "     | 33.3 |  | 97.3 | 16-149 |  |  |  |
| Surr: 2,4,5,6-Tetrachloro-m-xylene | 26.9 |      | "     | 33.3 |  | 80.8 | 36-140 |  |  |  |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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North Creek Analytical, Inc.  
Environmental Laboratory Network



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**Bend** 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711  
541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

### Organochlorine Pesticides per EPA Method 8081A - Quality Control

#### North Creek Analytical - Portland

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

#### Batch 3080605 - EPA 3550

| Matrix Spike (3080605-MS1)         | Source: P3H0458-01 |      |           | Prepared: 08/19/03 |    | Analyzed: 08/21/03 |        |  |  |
|------------------------------------|--------------------|------|-----------|--------------------|----|--------------------|--------|--|--|
| Aldrin                             | 35.9               | 6.70 | ug/kg dry | 47.4               | ND | 75.7               | 64-136 |  |  |
| gamma-BHC (Lindane)                | 38.2               | 6.70 | "         | 47.4               | ND | 80.6               | 62-140 |  |  |
| 4,4'-DDT                           | 51.1               | 13.4 | "         | 47.4               | ND | 108                | 65-130 |  |  |
| Dieldrin                           | 37.5               | 6.70 | "         | 47.4               | ND | 79.1               | 70-135 |  |  |
| Endrin                             | 39.0               | 6.70 | "         | 47.4               | ND | 82.3               | 65-135 |  |  |
| Heptachlor                         | 36.8               | 6.70 | "         | 47.4               | ND | 77.6               | 48-124 |  |  |
| Surr: Decachlorobiphenyl           | 42.0               |      | "         | 47.4               |    | 88.6               | 16-149 |  |  |
| Surr: 2,4,5,6-Tetrachloro-m-xylene | 33.2               |      | "         | 47.4               |    | 70.0               | 36-140 |  |  |

| Matrix Spike Dup (3080605-MSD1)    | Source: P3H0458-01 |      |           | Prepared: 08/19/03 |    | Analyzed: 08/21/03 |        |       |    |
|------------------------------------|--------------------|------|-----------|--------------------|----|--------------------|--------|-------|----|
| Aldrin                             | 37.4               | 6.70 | ug/kg dry | 47.4               | ND | 78.9               | 64-136 | 4.09  | 50 |
| gamma-BHC (Lindane)                | 40.6               | 6.70 | "         | 47.4               | ND | 85.7               | 62-140 | 6.09  | 50 |
| 4,4'-DDT                           | 50.6               | 13.4 | "         | 47.4               | ND | 107                | 65-130 | 0.983 | 50 |
| Dieldrin                           | 40.3               | 6.70 | "         | 47.4               | ND | 85.0               | 70-135 | 7.20  | 50 |
| Endrin                             | 41.9               | 6.70 | "         | 47.4               | ND | 88.4               | 65-135 | 7.17  | 50 |
| Heptachlor                         | 40.1               | 6.70 | "         | 47.4               | ND | 84.6               | 48-124 | 8.58  | 50 |
| Surr: Decachlorobiphenyl           | 46.4               |      | "         | 47.4               |    | 97.9               | 16-149 |       |    |
| Surr: 2,4,5,6-Tetrachloro-m-xylene | 35.8               |      | "         | 47.4               |    | 75.5               | 36-140 |       |    |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

**Polynuclear Aromatic Compounds per EPA 8270M-SIM - Quality Control**

**North Creek Analytical - Portland**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|----------------|-----|--------------|-------|

**Batch 3080555 - EPA 3550**

**Blank (3080555-BLK1)**

Prepared: 08/18/03 Analyzed: 08/20/03

|                            |      |      |       |      |  |      |        |  |  |
|----------------------------|------|------|-------|------|--|------|--------|--|--|
| Acenaphthene               | ND   | 13.4 | ug/kg |      |  |      |        |  |  |
| Acenaphthylene             | ND   | 13.4 | "     |      |  |      |        |  |  |
| Anthracene                 | ND   | 13.4 | "     |      |  |      |        |  |  |
| Benzo (a) anthracene       | ND   | 13.4 | "     |      |  |      |        |  |  |
| Benzo (a) pyrene           | ND   | 13.4 | "     |      |  |      |        |  |  |
| Benzo (b) fluoranthene     | ND   | 13.4 | "     |      |  |      |        |  |  |
| Benzo (ghi) perylene       | ND   | 13.4 | "     |      |  |      |        |  |  |
| Benzo (k) fluoranthene     | ND   | 13.4 | "     |      |  |      |        |  |  |
| Chrysene                   | ND   | 13.4 | "     |      |  |      |        |  |  |
| Dibenzo (a,h) anthracene   | ND   | 13.4 | "     |      |  |      |        |  |  |
| Fluoranthene               | ND   | 13.4 | "     |      |  |      |        |  |  |
| Fluorene                   | ND   | 13.4 | "     |      |  |      |        |  |  |
| Indeno (1,2,3-cd) pyrene   | ND   | 13.4 | "     |      |  |      |        |  |  |
| Naphthalene                | ND   | 13.4 | "     |      |  |      |        |  |  |
| Phenanthrene               | ND   | 13.4 | "     |      |  |      |        |  |  |
| Pyrene                     | ND   | 13.4 | "     |      |  |      |        |  |  |
| Surr: Fluorene-d10         | 81.8 |      | "     | 83.3 |  | 98.2 | 40-150 |  |  |
| Surr: Pyrene-d10           | 98.6 |      | "     | 83.3 |  | 118  | 40-150 |  |  |
| Surr: Benzo (a) pyrene-d12 | 99.3 |      | "     | 83.3 |  | 119  | 40-150 |  |  |

**LCS (3080555-BS1)**

Prepared: 08/18/03 Analyzed: 08/20/03

|                            |      |      |       |      |  |      |        |  |  |
|----------------------------|------|------|-------|------|--|------|--------|--|--|
| Acenaphthene               | 145  | 13.4 | ug/kg | 167  |  | 86.8 | 33-139 |  |  |
| Benzo (a) pyrene           | 178  | 13.4 | "     | 167  |  | 107  | 45-149 |  |  |
| Pyrene                     | 160  | 13.4 | "     | 167  |  | 95.8 | 39-138 |  |  |
| Surr: Fluorene-d10         | 88.7 |      | "     | 83.3 |  | 106  | 40-150 |  |  |
| Surr: Pyrene-d10           | 101  |      | "     | 83.3 |  | 121  | 40-150 |  |  |
| Surr: Benzo (a) pyrene-d12 | 109  |      | "     | 83.3 |  | 131  | 40-150 |  |  |

North Creek Analytical - Portland

Crystal Jones, Project Manager

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 541.383.9310 fax 541.382.7588

METRO-REM  
 600 NE Grand Ave.  
 Portland, OR 97232

Project: Soil Characterization  
 Project Number: None  
 Project Manager: Elaine Stewart

Reported:  
 09/03/03 09:45

### Percent Dry Weight (Solids) per Standard Methods - Quality Control

#### North Creek Analytical - Portland

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

#### Batch 3080631 - Dry Weight

**Duplicate (3080631-DUP1)** Source: P3H0443-01 Prepared: 08/19/03 Analyzed: 08/20/03

|          |      |                 |  |      |  |       |    |
|----------|------|-----------------|--|------|--|-------|----|
| % Solids | 75.0 | 1.00% by Weight |  | 75.1 |  | 0.133 | 20 |
|----------|------|-----------------|--|------|--|-------|----|

**Duplicate (3080631-DUP2)** Source: P3H0443-02 Prepared: 08/19/03 Analyzed: 08/20/03

|          |      |                 |  |      |  |       |    |
|----------|------|-----------------|--|------|--|-------|----|
| % Solids | 84.6 | 1.00% by Weight |  | 85.0 |  | 0.472 | 20 |
|----------|------|-----------------|--|------|--|-------|----|

**Duplicate (3080631-DUP3)** Source: P3H0443-03 Prepared: 08/19/03 Analyzed: 08/20/03

|          |      |                 |  |      |  |      |    |
|----------|------|-----------------|--|------|--|------|----|
| % Solids | 80.3 | 1.00% by Weight |  | 80.3 |  | 0.00 | 20 |
|----------|------|-----------------|--|------|--|------|----|

North Creek Analytical - Portland

Crystal Jones, Project Manager

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541.383.9310 fax 541.382.7588

METRO-REM  
600 NE Grand Ave.  
Portland, OR 97232

Project: Soil Characterization  
Project Number: None  
Project Manager: Elaine Stewart

Reported:  
09/03/03 09:45

### Notes and Definitions

- R-05 Reporting limits raised due to dilution necessary for analysis. Sample contains high levels of reported analyte, non-target analyte, and/or matrix interference.
- R-08 Due to matrix unable to resolve Benzo(a)fluoranthene isomers. Value reported only in Benzo(b) category represents Total Benzo(b+k)fluoranthene.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
- wet Sample results reported on a wet weight basis (as received)
- RPD Relative Percent Difference

North Creek Analytical - Portland

Crystal Jones, Project Manager

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**Environmental Laboratory Network**



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907-334-9200 FAX 334-9210

## CHAIN OF CUSTODY REPORT

Work Order #:

2340458

|  |                    |  |  |   |            |                     |           |
|--|--------------------|--|--|---|------------|---------------------|-----------|
| CLIENT: <b>METRO - ELAINE STEWART</b>  |                    | INVOICE TO: Elaine Stewart<br>Metro Parks and Greenspaces<br>600 NE Grand Ave.<br>Portland OR 97232-2736 |  | <b>TURNAROUND REQUEST</b><br>in Business Days *<br><input checked="" type="checkbox"/> Organic & Inorganic Analyses<br>7 5 4 3 2 1 <1<br><input checked="" type="checkbox"/> Petroleum Hydrocarbon Analyses<br>5 4 3 2 1 <1<br>OTHER Specify:<br>* Turnaround Requests less than standard may incur Rush Charges. |            |                     |           |
| REPORT TO: Elaine Stewart<br>ADDRESS: Metro Parks and Greenspaces<br>797 600 NE Grand Ave. Fax: 797-1515<br>PHONE: Portland, OR 97232-2736 FAX: 1849 |                    | P.O. NUMBER:   |  |   |            |                     |           |
| PROJECT NAME: Smith-Bybee  |                    | PRESERVATIVE   |  |   |            |                     |           |
| PROJECT NUMBER:  |                    | REQUESTED ANALYSES   |  |   |            |                     |           |
| SAMPLED BY: Jeff Bory / SEI  |                    | See attached page. All 4 samples get all tests listed on the attachment.                                 |  |   |            |                     |           |
| CLIENT SAMPLE IDENTIFICATION   | SAMPLING DATE/TIME |  |  | MATRIX (W, S, O)  | # OF CONT. | LOCATION / COMMENTS | NCA WO ID |
| 1 North Slough 1   | 8/14 1:10 pm       |  |  | Soil  | 1          |                     |           |
| 2 North Slough 2   | 8/14 1:15 pm       |  |  | Soil  | 1          |                     |           |
| 3 Bybee Lake 1   | 8/14 1:25 pm       |  |  | Soil  | 1          |                     |           |
| 4 Bybee Lake 2   | 8/14 1:30 pm       |  |  | Soil  | 1          |                     |           |
| 5  |                    |  |  |   |            |                     |           |
| 6  |                    |  |  |   |            |                     |           |
| 7  |                    |  |  |   |            |                     |           |
| 8  |                    |  |  |   |            |                     |           |
| 9  |                    |  |  |   |            |                     |           |
| 10   |                    |  |  |   |            |                     |           |
| RELEASED BY: Elaine Stewart  |                    | DATE: 8-14-03  |  | RECEIVED BY: Jeff Bory  |            | DATE: 8/14          |           |
| PRINT NAME: ELAINE STEWART FIRM: METRO   |                    | TIME: 1:35   |  | PRINT NAME: Jeff Bory FIRM: SEI   |            | TIME: 1:35          |           |
| RELEASED BY: Jeff Bory   |                    | DATE: 8/14/03  |  | RECEIVED BY: Julie Fausch   |            | DATE: 8/14/03       |           |
| PRINT NAME: Jeff Bory FIRM: SEI  |                    | TIME: 2:15   |  | PRINT NAME: Julie Fausch FIRM: NCA  |            | TIME: 14:18         |           |
| ADDITIONAL REMARKS:  |                    |  |  | TEMP:   |            |                     |           |
| See attached paperwork   |                    |  |  | 27.1  |            | PAGE OF             |           |

## Analytical Method Details - North Creek Analytical - Portland

| Method  | Analyte                      | MDL     | MRL Units          |
|---|------------------------------|---------|--------------------|
| <b>Total Metals per EPA 6000/7000 Series Methods</b>    |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 6020  | Arsenic                      | 0.427   | 0.500 mg/kg dry wt |
| EPA 6020  | Copper                       | 0.955   | 2.00 mg/kg dry wt  |
| EPA 6020  | Lead                         | 0.106   | 0.500 mg/kg dry wt |
| EPA 6020  | Nickel                       | 0.213   | 1.00 mg/kg dry wt  |
| EPA 6020  | Zinc                         | 0.630   | 2.00 mg/kg dry wt  |
| EPA 7471A   | Mercury                      | 0.00496 | 0.100 mg/kg dry wt |
| <b>Organochlorine Pesticides per EPA Method 8081A</b>   |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 8081A   | 4,4'-DDD                     | 2.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | 4,4'-DDE                     | 1.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | 4,4'-DDT                     | 2.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | Decachlorobiphenyl           |         | Surrogate          |
| EPA 8081A   | 2,4,5,6-Tetrachloro-m-xylene |         | Surrogate          |
| <b>Polynuclear Aromatic Compounds per EPA 8270M-SIM</b> |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 8270m   | Benzo (a) anthracene         | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Benzo (a) pyrene             | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Benzo (b) fluoranthene       | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Indeno (1,2,3-cd) pyrene     | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Fluorene-d10                 |         | Surrogate          |
| EPA 8270m   | Pyrene-d10                   |         | Surrogate          |
| EPA 8270m   | Benzo (a) pyrene-d12         |         | Surrogate          |



## Analytical Method Details - North Creek Analytical - Portland

| Method  | Analyte                      | MDL     | MRL Units          |
|---|------------------------------|---------|--------------------|
| <b>Total Metals per EPA 6000/7000 Series Methods</b>    |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 6020  | Arsenic                      | 0.427   | 0.500 mg/kg dry wt |
| EPA 6020  | Copper                       | 0.955   | 2.00 mg/kg dry wt  |
| EPA 6020  | Lead                         | 0.106   | 0.500 mg/kg dry wt |
| EPA 6020  | Nickel                       | 0.213   | 1.00 mg/kg dry wt  |
| EPA 6020  | Zinc                         | 0.630   | 2.00 mg/kg dry wt  |
| EPA 7471A   | Mercury                      | 0.00496 | 0.100 mg/kg dry wt |
| <b>Organochlorine Pesticides per EPA Method 8081A</b>   |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 8081A   | 4,4'-DDD                     | 2.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | 4,4'-DDE                     | 1.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | 4,4'-DDT                     | 2.00    | 6.70 ug/kg dry wt  |
| EPA 8081A   | Decachlorobiphenyl           |         | Surrogate          |
| EPA 8081A   | 2,4,5,6-Tetrachloro-m-xylene |         | Surrogate          |
| <b>Polynuclear Aromatic Compounds per EPA 8270M-SIM</b> |                              |         |                    |
| <b>In Soil</b>  |                              |         |                    |
| EPA 8270m   | Benzo (a) anthracene         | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Benzo (a) pyrene             | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Benzo (b) fluoranthene       | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Indeno (1,2,3-cd) pyrene     | 3.30    | 13.4 ug/kg dry wt  |
| EPA 8270m   | Fluorene-d10                 |         | Surrogate          |
| EPA 8270m   | Pyrene-d10                   |         | Surrogate          |
| EPA 8270m   | Benzo (a) pyrene-d12         |         | Surrogate          |

# NORTH CREEK ANALYTICAL COOLER RECEIPT FORM

(Army Corp. compliant)

Client: Mitro

1. Please sign for receipt and opening of 1 cooler or other

By (print) Cassie Fansholtz (sign) Cassie Fansholtz

2. Date samples received 8/14/03 Date opened: Same ☒ or 1 / 1 / 1

3. Delivered by: ☐ NCA courier ☐ FedEx ☐ UPS ☐ Courier ☒ Client ☐ Other ☐  
Airbill # if applicable \_\_\_\_\_ (Put copy of shipping papers in file)

4. There were 0 custody seals present, signed by \_\_\_\_\_ date 1 / 1 / 1

5. Were the custody seals unbroken and intact at the date and time of arrival? ☐ Yes ☐ No

6. Was ice used? ☐ yes ☒ no Type of ice: ☐ blue ice ☐ gel ice ☐ real ice  
Temperature (degrees C) 27.1 Raytek thermometer \_\_\_\_\_ Digi-Therm (probe temperature blank)

7. Are custody papers sealed in a plastic bag and taped inside to lid? ☐ Yes ☒ No

8. Were custody papers filled out properly (ink, signed, etc.)? ☒ Yes ☐ No  
If "no" please specify: \_\_\_\_\_

9. Was project identifiable from custody papers? ☒ Yes ☐ No  
Name of project Smith-Byrce (if applicable)

10. Initial and date for unpacking: CF (initials) date 8/15/03

11. Packing material: N/A bubble wrap/bag ☐ styrofoam ☐ cardboard ☐ other

12. Were samples in bags? ☐ Yes ☒ No

13. Did all containers indicated on the COC arrive? ☒ Yes ☐ No  
If "no" please indicate which containers were absent \_\_\_\_\_

14. Were all containers unbroken and labels in good condition? ☒ Yes ☐ No  
If "no" please indicate which containers \_\_\_\_\_

15. Were all bottle labels complete (ID, date, time, signature, etc.)? ☒ Yes ☐ No  
Do the IDs, times, etc. agree with the COC? ☒ Yes ☐ No  
If "no" please indicate which containers \_\_\_\_\_

16. Are containers properly preserved for indicated analysis? ☒ Yes ☐ No

17. Is there adequate volume for the test(s) requested? ☒ Yes ☐ No

18. If voa vials were submitted, are they free of bubbles? ☒ N/A ☐ Yes ☐ No

19. Log-in phase: Date samples were logged in: 8/15/03 Elm Project # 340458

20. Logged in by (print) Erica Dakan (sign) Erica Dakan

21. Was the project manager notified of status? (Use back of form as a record) ☐ Yes ☐ No