Applied Envrionmental Consutants, Inc.
Contact: Bob Dulla
Recorded by: JEEP CHINDAVIJAK

Project: Sierra Research - Phoenix
Date: 8/30/07

## Paved Roads

| Location | Time | Filter # | Road Width (ft) | # of Lanes | Surface Type | Road Condition |
|---|---|---|---|---|---|---|
| BROADWAY | 8:30 | 192913 | 36.1 | 3 | ASPHALT | GOOD |
| BROADWAY | 8:45 | 192914 | 36.1 | 3 | ASPHALT | GOOD |
| BROADWAY | 8:57 | 192916 | 45.6 | 4 | ASPHALT | GOOD |
| | | | | | | |
| 19th Ave | 9:04 | 192917 | 45.3 | 4 | CONCRETE | GOOD |
| 19th Ave | 9:18 | 192918 | 48.7 | 4 | CONCRETE | GOOD |
| 19th Ave | 9:26 | 192920 | 46.7 | 4 | CONCRETE | GOOD |
| | | | | | | |
| CENTRAL | 10:00 | 192921 | 37.7 | 4 | ASPHALT | GOOD |
| CENTRAL | 10:10 | 192922 | 38 | 4 | ASPHALT | GOOD |
| CENTRAL | 10:19 | 192923 | 38 | 4 | ASPHALT | GOOD |
| | | | | | | |

# APPENDIX C

# LABORATORY SIEVING AND FILTER WEIGHING RESULTS

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**SILT LOADING FROM PAVED ROADS**

PROJECT: Sierra Research
SITE: Gilbert & Phoenix, Arizona
DATE: 8/28/2007-8/30/2007
SURFACE TYPE: Asphalt, Concrete

**SILT LOADING RESULTS FROM THE PAVED ROAD**

| Location | Sample Weight (g) | Silt Weight (g) | Silt Weight (oz) | Percent Silt (%) | Area Sampled ($ft^2$) | Silt Loading ($oz/ft^2$) |
|---|---|---|---|---|---|---|
| Santan Village Parkway (between Williams Field Road & Ray Road) | 507.4 | 62.0 | 2.19 | 12.2 | 190.8 | 0.0115 |
| Ray Road (between Santan Village Parkway & Higley Road) | 87.9 | 5.4 | 0.19 | 6.1 | 193.2 | 0.0010 |
| Higley Road (between Ray Road & Williams Field Road) | 165.3 | 15.1 | 0.53 | 9.2 | 180.5 | 0.0030 |
| 39th Avenue (between Thomas Road & Osborne Road) | 72.2 | 2.5 | 0.09 | 3.5 | 86.6 | 0.0010 |
| 27th Avenue (between Van Buren Street & McDowell Street) | 80.4 | 2.1 | 0.07 | 2.6 | 182.0 | 0.0004 |
| 27th Avenue (between Lower Buckeye Road & Durango Street) | 62.8 | 1.8 | 0.06 | 2.9 | 118.1 | 0.0005 |
| Roosevelt Street (between 7th Street & 16th Street) | 57.3 | 1.5 | 0.05 | 2.7 | 94.2 | 0.0006 |
| Broadway Road (between 35th Avenue & 43rd Avenue) | 28.1 | 0.9 | 0.03 | 3.3 | 117.8 | 0.0003 |
| 19th Avenue (between Broadway Road & Lower Buckeye Road) | 93.9 | 3.0 | 0.11 | 3.2 | 142.7 | 0.0007 |
| Central Avenue (between Broadway Road & Southern Avenue) | 105.3 | 11.6 | 0.41 | 11.1 | 113.7 | 0.0036 |
| | | | | | **Average** | **0.0023** |

## APPLIED ENVIRONMENTAL CONSULTANTS, INC.
## LABORATORY RESULTS

PROJECT: Sierra Research
LOCATION: Santan Village Parkway
(between Williams Field Road & Ray Road)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/28/2007
SAMPLE NUMBER: 1

### SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 374.2 |
| 10 min | 428.9 |
| 20 min | 432.3 |
| 30 min | 432.9 |
| 40 min | |

Sample Weight (g) 507.4
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 12.5670 | 15.8498 | 3.3 |
| < # 200 | 374.2 | 432.9 | 58.7 |
| | | *Total Silt | 62.0 |
| | | Percent Silt | **12.2%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**LABORATORY RESULTS**

PROJECT: Sierra Research
LOCATION: Ray Road
(between Santan Village Parkway & Higley Road)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/28/2007
SAMPLE NUMBER: 2

## SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 378.1 |
| 20 min | 378.2 |
| 30 min | |
| 40 min | |

Sample Weight (g) 87.9
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 12.5632 | 13.6481 | 1.1 |
| < # 200 | 373.9 | 378.2 | 4.3 |
| | | *Total Silt | 5.4 |
| | | Percent Silt | **6.1%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

## APPLIED ENVIRONMENTAL CONSULTANTS, INC.
## LABORATORY RESULTS

PROJECT: Sierra Research
LOCATION: Higley Road
(between Ray Road & Williams Field Road)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/28/2007
SAMPLE NUMBER: 3

### SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 387.1 |
| 20 min | 387.4 |
| 30 min | |
| 40 min | |

Sample Weight (g) 165.3
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.1503 | 14.7945 | 1.6 |
| < # 200 | 373.9 | 387.4 | 13.5 |
| | | *Total Silt | 15.1 |
| | | Percent Silt | **9.2%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**LABORATORY RESULTS**

PROJECT: Sierra Research
LOCATION: 39th Avenue
(between Thomas Road & Osborne Road)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/29/2007
SAMPLE NUMBER: 4

## SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 375.7 |
| 20 min | 375.7 |
| 30 min | |
| 40 min | |

Sample Weight (g) 72.2
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.9771 | 14.6721 | 0.7 |
| < # 200 | 373.9 | 375.7 | 1.8 |
| | | *Total Silt | 2.5 |
| | | Percent Silt | **3.5%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**LABORATORY RESULTS**

PROJECT: Sierra Research
LOCATION: 27th Avenue
(between Van Buren Street & McDowell Street)
ROAD TYPE: Asphalt & Concrete

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/29/2007
SAMPLE NUMBER: 5

## SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 375.5 |
| 20 min | 375.5 |
| 30 min | |
| 40 min | |

Sample Weight (g) 80.4
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 14.0021 | 14.5057 | 0.5 |
| < # 200 | 373.9 | 375.5 | 1.6 |
| | | *Total Silt | 2.1 |
| | | Percent Silt | **2.6%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

## APPLIED ENVIRONMENTAL CONSULTANTS, INC.
## LABORATORY RESULTS

PROJECT: Sierra Research
LOCATION: 27th Avenue
(between Lower Buckeye Road & Durango Street)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/29/2007
SAMPLE NUMBER: 6

### SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 375.2 |
| 20 min | 375.2 |
| 30 min | |
| 40 min | |

Sample Weight (g) 62.8
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 14.0573 | 14.5847 | 0.5 |
| < # 200 | 373.9 | 375.2 | 1.3 |
| | | *Total Silt | 1.8 |
| | | Percent Silt | **2.9%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

## APPLIED ENVIRONMENTAL CONSULTANTS, INC.
## LABORATORY RESULTS

PROJECT: Sierra Research
LOCATION: Roosevelt Street
(between 7th Street & 16th Street)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/29/2007
SAMPLE NUMBER: 7

### SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.9 |
| 10 min | 375.2 |
| 20 min | 375.2 |
| 30 min | |
| 40 min | |

Sample Weight (g) 57.3
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.9827 | 14.2104 | 0.2 |
| < # 200 | 373.9 | 375.2 | 1.3 |
| | | *Total Silt | 1.5 |
| | | Percent Silt | **2.7%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**LABORATORY RESULTS**

PROJECT: Sierra Research
LOCATION: Broadway Road
(between 35th Avenue & 43rd Avenue)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/30/2007
SAMPLE NUMBER: 8

## SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.8 |
| 10 min | 374.3 |
| 20 min | 374.3 |
| 30 min | |
| 40 min | |

Sample Weight (g) 28.1
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.9436 | 14.3825 | 0.4 |
| < # 200 | 373.8 | 374.3 | 0.5 |
| | | *Total Silt | 0.9 |
| | | Percent Silt | **3.3%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

**APPLIED ENVIRONMENTAL CONSULTANTS, INC.**
**LABORATORY RESULTS**

PROJECT: Sierra Research
LOCATION: 19th Avenue
(between Broadway Road & Lower Buckeye Road)
ROAD TYPE: Concrete

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/30/2007
SAMPLE NUMBER: 9

## SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.8 |
| 10 min | 376.1 |
| 20 min | 376.2 |
| 30 min | 376.2 |
| 40 min | |

Sample Weight (g) 93.9
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.7319 | 14.3542 | 0.6 |
| < # 200 | 373.8 | 376.2 | 2.4 |
| | | *Total Silt | 3.0 |
| | | Percent Silt | **3.2%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

## APPLIED ENVIRONMENTAL CONSULTANTS, INC.
## LABORATORY RESULTS

PROJECT: Sierra Research
LOCATION: Central Avenue
(between Broadway Road & Southern Avenue)
ROAD TYPE: Asphalt

SAMPLE SOURCE: Paved Road
DATE SAMPLED: 8/30/2007
SAMPLE NUMBER: 10

### SIEVE ANALYSIS (ASTM C136)

| SIEVING | |
|---|---|
| Pan Tare Wt. (g) | 373.8 |
| 10 min | 383.9 |
| 20 min | 384.0 |
| 30 min | |
| 40 min | |

Sample Weight (g) 105.3
(Includes Filter Sample Mass)

| Filter/Screen | Tare Weight (g) (Filter or Pan) | Final Weight (g) (Filter or Pan + Sample) | Net Weight (g) (Sample) |
|---|---|---|---|
| Filter | 13.7430 | 15.1910 | 1.4 |
| < # 200 | 373.8 | 384.0 | 10.2 |
| | | *Total Silt | 11.6 |
| | | Percent Silt | **11.1%** |

* Total silt is calculated from the addition of the net gain in filter weight and the net weight passing the # 200 screen.

SANTAN

SILT ANALYSIS

Date: 8/31/07 By: JM

Sample No: 192891[A], 192892[B], 192893[C]
Material: ROAD SAMPLE

Sample Weight (after drying)
Pan + Sample: 878.3 g
Pan: 374.2 g
Split Sample Balance:
Dry Sample: 504.1 g
Capacity: 2600 g
Final Weight: 432.9 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 =__%

Make MYWEIGH i2600
Smallest Division 2600g x 0.1g

SIEVING

| Time: Start: 1:01 pm | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 374.2 |
| 10 min: | 428.9 |
| 20 min: | 432.3 |
| 30 min: | 432.9 |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.7 | 550.4 | | |
| 10 mesh | | | | |
| 20 mesh | 415.1 | 488.1 | | |
| 40 mesh | 380.1 | 423.1 | | |
| 100 mesh | 345.9 | 529.5 | | |
| 140 mesh | 333.9 | 401.4 | | |
| 200 mesh | 338.2 | 388.8 | | |
| Pan | 374.2 | 432.9 | 58.7 ✓ | |

Figure C.2-4. Example silt analysis form.

RAY Rd.

SILT ANALYSIS

Date: 9/04/07 By: J

Sample No: 192894[A], 192895[B], 192896[C]
Material: ROAD SAMPLE

Make MYKOTECH
Smallest Division 2600 g x 0.1 g

Sample Weight (after drying)
Pan + Sample: 460.7 g
Pan: 373.9 g
Split Sample Balance:
Dry Sample: 86.8 g
Capacity: 2600 g
Final Weight: 378.2
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

SIEVING

| Time: Start: 7:42 | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 378.1 |
| 20 min: | 378.2 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 521.4 | 525.0 | | |
| 10 mesh | | | | |
| 20 mesh | 415.7 | 432.9 | | |
| 40 mesh | 380.8 | 403.0 | | |
| 100 mesh | 345.9 | 365.7 | | |
| 140 mesh | 333.6 | 347.5 | | |
| 200 mesh | 337.9 | 345.8 | | |
| Pan | 373.9 | 378.2 | 4.3 ✓ | |

Figure C.2-4. Example silt analysis form.

HIGLEY RD.

SILT ANALYSIS

Date: 9/04/07 By: JM

Sample No: 0192897A, 0192898B, 0192899C
Material: ROAD SAMPLE

Sample Weight (after drying)
Pan + Sample: 537.6 g
Pan: 373.9 g
Split Sample Balance: _____
Dry Sample: 163.7 g
Capacity: 2600
Final Weight: 387.4 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

Make _____
Smallest Division _____

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 387.9 |
| 20 min: | 387.4 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.5 | 535.0 | | |
| 10 mesh | | | | |
| 20 mesh | 415.8 | 430.1 | | |
| 40 mesh | 381.1 | 415.9 | | |
| 100 mesh | 345.9 | 407.1 | | |
| 140 mesh | 333.5 | 345.6 | | |
| 200 mesh | 337.8 | 347.0 | | |
| Pan | 373.9 | 387.4 | 13.5 | |

Figure C.2-4. Example silt analysis form.

39TH THOMAS

SILT ANALYSIS

Date: 9/5/07 By: JM

Sample No: 192902[A], 192901[B], 192900[C]
Material: ROAD SAMPLE

Make MYWEIGH
Smallest Division 2600 x 0.1g

Sample Weight (after drying)
Pan + Sample: 445.4 g
Pan: 373.9 g
Split Sample Balance:
Dry Sample: 71.5 g
Capacity: 2600
Final Weight: 375.7 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 =__%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 375.7 |
| 20 min: | 375.7 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.3 | 558.7 | | |
| 10 mesh | | | | |
| 20 mesh | 415.8 | 428.8 | | |
| 40 mesh | 381.5 | 387.5 | | |
| 100 mesh | 345.7 | 351.1 | | |
| 140 mesh | 333.4 | 355.8 | | |
| 200 mesh | 337.7 | 339.3 | | |
| Pan | 373.9 | 375.7 | 1.8 | |

Figure C.2-4. Example silt analysis form.

27TH ROSEBELT

SILT ANALYSIS

Date: 9/5/07 By: JM

Sample No: 192903, 192904, 192905
Material: ROAD SAMPLE

Make MYWEIGH
Smallest Division 2600 X 0.1g

Sample Weight (after drying)
Pan + Sample: 453.8 g
Pan: 373.9 g
Split Sample Balance:
Dry Sample: 79.9 g
Capacity: 2600
Final Weight: 375.5 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 375.5 |
| 20 min: | 375.5 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.4 | 536.2 | | |
| 10 mesh | | | | |
| 20 mesh | 415.8 | 445.7 | | |
| 40 mesh | 380.8 | 393.8 | | |
| 100 mesh | 345.7 | 364.6 | | |
| 140 mesh | 333.4 | 336.2 | | |
| 200 mesh | 337.7 | 339.5 | | |
| Pan | 373.9 | 375.5 | 1.8 | |

Figure C.2-4. Example silt analysis form.

27TH + DURANGO

SILT ANALYSIS

Date: 9/5/07 By: Jm

Sample No: 192908, 192907, 192906
Material: ROAD SAMPLE

Make MY WEIGHT
Smallest Division 2600 x 0.1 g

Sample Weight (after drying)
Pan + Sample: 436.2 g
Pan: 373.9 g
Split Sample Balance:
Dry Sample: 62.3 g
Capacity: 2600
Final Weight: 375.2 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 375.2 |
| 20 min: | 375.2 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.3 | 534.1 | | |
| 10 mesh | | | | |
| 20 mesh | 415.9 | 437.0 | | |
| 40 mesh | 380.9 | 392.9 | | |
| 100 mesh | 345.6 | 360.0 | | |
| 140 mesh | 333.5 | 336.0 | | |
| 200 mesh | 337.8 | 339.4 | | |
| Pan | 373.9 | 375.2 | 1.6 | |

Figure C.2-4. Example silt analysis form.

ROSEBELT + 10TH

SILT ANALYSIS

Date: 9/05/07

By: [illegible]

Sample No: 192910, 192911, 192912

Material: ROAD SAMPLE

Sample Weight (after drying)

Pan + Sample: 431.0 g

Pan: 373.9 g

Split Sample Balance:

Dry Sample: 57.1 g

Capacity: 2600

Final Weight: 375.2 g

Net Weight <200 Mesh

% Silt = Total Net Weight x 100 =__%

Make MYWEIGH

Smallest Division 2600 X 0.1g

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.9 |
| 10 min: | 375.2 |
| 20 min: | 375.2 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.3 | 542.6 | | |
| 10 mesh | | | | |
| 20 mesh | 416.5 | 434.4 | | |
| 40 mesh | 381.1 | 389.4 | | |
| 100 mesh | 345.7 | 355.7 | | |
| 140 mesh | 334.5 | 335.4 | | |
| 200 mesh | 337.7 | 339.4 | | |
| Pan | 373.9 | 375.2 | 1.3 | |

Figure C.2-4. Example silt analysis form.

BROADWAY 43RD

SILT ANALYSIS

Date: 9/5/07 By: Jm

Sample No: 192913[a], 192914[b], 192916[c]
Material: ROAD SAMPLE

Make MYWEIGH
Smallest Division 2600 x 0.1g

Sample Weight (after drying)
Pan + Sample: 401.5 g
Pan: 373.8 g
Split Sample Balance:
Dry Sample: 27.7 g
Capacity: 2600
Final Weight: 374.3 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.8 |
| 10 min: | 374.3 |
| 20 min: | 374.3 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | | | | |
| 4 mesh | 524.5 | 536.9 | | |
| 10 mesh | | | | |
| 20 mesh | 416.7 | 418.7 | | |
| 40 mesh | 381.3 | 385.9 | | |
| 100 mesh | 345.7 | 352.1 | | |
| 140 mesh | 333.5 | 334.6 | | |
| 200 mesh | 337.8 | 338.7 | | |
| Pan | 373.8 | 374.3 | 0.5 | |

Figure C.2-4. Example silt analysis form.

19TH AVE S. BROADWAY

SILT ANALYSIS

Date: 9/5/07 By: J

Sample No: 192920[A], 192918[B], 192917[C]
Material: ROAD SAMPLE

Make MY WEIGHT
Smallest Division 2600 x 0.1g

Sample Weight (after drying)
Pan + Sample: 467.1 g
Pan: 373.8 g
Split Sample Balance:
Dry Sample: 93.3 g
Capacity: 2600
Final Weight: 376.2 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 =__%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.8 |
| 10 min: | 376.1 |
| 20 min: | 376.2 |
| 30 min: | 376.2 |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | — | — | | |
| 4 mesh | 524.5 | 544.0 | | |
| 10 mesh | — | — | | |
| 20 mesh | 416.8 | 440.0 | | |
| 40 mesh | 381.1 | 397.3 | | |
| 100 mesh | 345.7 | 371.2 | | |
| 140 mesh | 333.6 | 337.6 | | |
| 200 mesh | 337.8 | 340.3 | | |
| Pan | 373.8 | 376.2 | 2.4 | |

Figure C.2-4. Example silt analysis form.

CENTRAL ST.

SILT ANALYSIS

Date: 9/5/07 By: JM

Sample No: A 192921, B 192922, C 192923
Material: ROAD SAMPLE

Make MY WEIGHT
Smallest Division 2600 x 0.1g

Sample Weight (after drying)
Pan + Sample: 477.7 g
Pan: 373.8 g
Split Sample Balance:
Dry Sample: 103.9 g
Capacity: 2600g
Final Weight: 384.0 g
Net Weight <200 Mesh
% Silt = Total Net Weight x 100 = __%

SIEVING

| Time: Start: | Weight (Pan Only) g |
|---|---|
| Initial (Tare): | 373.8 |
| 10 min: | 383.9 |
| 20 min: | 384.0 |
| 30 min: | |
| 40 min: | |

| Screen | Tare Weight (Screen) g | Final Weight (Screen + Sample) g | Net Weight (Sample) g | % |
|---|---|---|---|---|
| 3/8 in. | — | — | | |
| 4 mesh | 524.5 | 544.2 | | |
| 10 mesh | — | — | | |
| 20 mesh | 416.3 | 422.4 | | |
| 40 mesh | 381.2 | 395.9 | | |
| 100 mesh | 346.0 | 384.1 | | |
| 140 mesh | 338.0 | 341.1 | | |
| 200 mesh | 335.89 | 345.9 | | |
| Pan | 373.8 | 384.0 | 10.2 | |

Figure C.2-4. Example silt analysis form.

Sierra Research - Road Samples PM Filter Weighing Log

| Filter No. | Tare Measurements Tech. | Date | Mass (g) | Gross Measurements Tech. | Gross Measurements Date | Gross Measurements Mass (g) | Net Mass (g) | Comments |
|---|---|---|---|---|---|---|---|---|
| 192891 | JM_ | 8/17/2007 | 4.1935 | JM_ | 8/31/2007 | 4.7835 | 0.5900 | |
| 192892 | JM_ | 8/17/2007 | 4.1915 | JM_ | 8/31/2007 | 5.6201 | 1.4286 | |
| 192893 | JM_ | 8/17/2007 | 4.182 | JM_ | 8/31/2007 | 5.4462 | 1.2642 | |
| 192894 | JM_ | 8/17/2007 | 4.1886 | JM_ | 8/31/2007 | 4.5842 | 0.3956 | |
| 192895 | JM_ | 8/17/2007 | 4.1902 | JM_ | 8/31/2007 | 4.4877 | 0.2975 | |
| 192896 | JM_ | 8/17/2007 | 4.1844 | JM_ | 8/31/2007 | 4.5762 | 0.3918 | |
| 192897 | JM_ | 8/17/2007 | 4.1947 | JM_ | 8/31/2007 | 4.6764 | 0.4817 | |
| 192898 | JM_ | 8/17/2007 | 4.2391 | JM_ | 8/31/2007 | 4.9865 | 0.7474 | |
| 192899 | JM_ | 8/17/2007 | 4.7165 | JM_ | 8/31/2007 | 5.1316 | 0.4151 | |
| 192900 | JM_ | 8/17/2007 | 4.653 | JM_ | 8/31/2007 | 4.8522 | 0.1992 | |
| 192901 | JM_ | 8/17/2007 | 4.6664 | JM_ | 8/31/2007 | 4.9608 | 0.2944 | |
| 192902 | JM_ | 8/17/2007 | 4.6577 | JM_ | 8/31/2007 | 4.8591 | 0.2014 | |
| 192903 | JM_ | 8/17/2007 | 4.6525 | JM_ | 8/31/2007 | 4.9846 | 0.3321 | |
| 192904 | JM_ | 8/17/2007 | 4.6775 | JM_ | 8/31/2007 | 4.7767 | 0.0992 | |
| 192905 | JM_ | 8/17/2007 | 4.6721 | JM_ | 8/31/2007 | 4.7444 | 0.0723 | |
| 192906 | JM_ | 8/17/2007 | 4.6892 | JM_ | 8/31/2007 | 4.9988 | 0.3096 | |
| 192907 | JM_ | 8/17/2007 | 4.6874 | JM_ | 8/31/2007 | 4.8652 | 0.1778 | |
| 192909 | JM_ | 8/17/2007 | 4.6807 | JM_ | 8/31/2007 | 4.7207 | 0.0400 | |
| 192910 | JM_ | 8/17/2007 | 4.665 | JM_ | 8/31/2007 | 4.7524 | 0.0874 | |
| 192911 | JM_ | 8/17/2007 | 4.6577 | JM_ | 8/31/2007 | 4.7373 | 0.0796 | |
| 192912 | JM_ | 8/17/2007 | 4.66 | JM_ | 8/31/2007 | 4.7207 | 0.0607 | |
| 192913 | JM_ | 8/17/2007 | 4.6484 | JM_ | 8/31/2007 | 4.8085 | 0.1601 | |
| 192914 | JM_ | 8/17/2007 | 4.7002 | JM_ | 8/31/2007 | 4.8909 | 0.1907 | |
| 192916 | JM_ | 8/17/2007 | 4.595 | JM_ | 8/31/2007 | 4.6831 | 0.0881 | |
| 192917 | JM_ | 8/17/2007 | 4.5815 | JM_ | 8/31/2007 | 4.6774 | 0.0959 | |
| 192918 | JM_ | 8/17/2007 | 4.5818 | JM_ | 8/31/2007 | 4.7056 | 0.1238 | |
| 192920 | JM_ | 8/17/2007 | 4.5686 | JM_ | 8/31/2007 | 4.9712 | 0.4026 | |
| 192921 | JM_ | 8/17/2007 | 4.5836 | JM_ | 8/31/2007 | 5.1837 | 0.6001 | |
| 192922 | JM_ | 8/17/2007 | 4.5785 | JM_ | 8/31/2007 | 4.9859 | 0.4074 | |
| 192923 | JM_ | 8/17/2007 | 4.5809 | JM_ | 8/31/2007 | 5.0214 | 0.4405 | |