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**To:**

Mr. Tom Fortner

**Firm:**

Weston Solutions

**Deliver By:**

email: Thomas.Fortner@WestonSolutions.com

**From:**

Lydia L. Barrow

**Date:**

October 17, 2014

**Subject:**

Soil and Aggregate Report  
Argonaut Mine Tailings

**Project No.:**

402277002

**Total Number Of Pages (Including Transmittal):** 10

- Geotechnical Engineering
- Engineering Geology
- Materials Testing and Inspection
- Construction Management
- Engineering Design
- Environmental Engineering
- Environmental Site Assessments
- Regulatory Compliance and Permitting
- Water Quality and Resource Evaluations
- Hazardous Waste Management
- Soil and Groundwater Remediation
- Asbestos and Lead-Based Paint Surveys
- Geophysical Studies
- Mineral Resource Evaluations
- Value Engineering
- Forensic Studies
- Expert Witness Testimony

JOB STAMP:

PROJECT NO.: 402277002

SAMPLE NO.: 2F-1-18.5-B

PROJECT NAME: Weston Argonaut

SAMPLED BY: Weston

CLIENT: Weston Solutions

DATE SAMPLED: 09/22/14

FILE/PLAN NO.:

TESTED BY: JMK

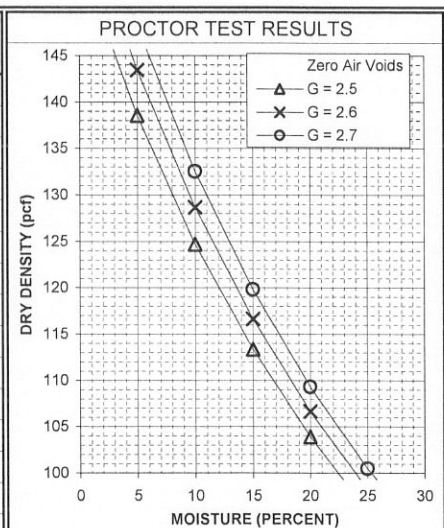
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 46.6        |                |                |          |
| LIQUID LIMIT     | D 4318      | 32%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 22%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 10%         |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNESS VALUE  |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

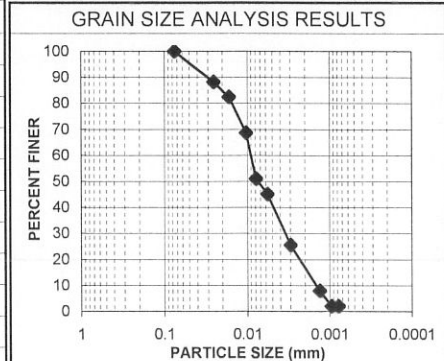
MAX DRY DENSITY (pcf):

OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

JOB STAMP:

PROJECT NO.: 402277002

SAMPLE NO.: 2F-1-25.5-B

PROJECT NAME: Weston Argonaut

SAMPLED BY: Weston

CLIENT: Weston Solutions

DATE SAMPLED: 09/22/14

FILE/PLAN NO.:

TESTED BY: JMK

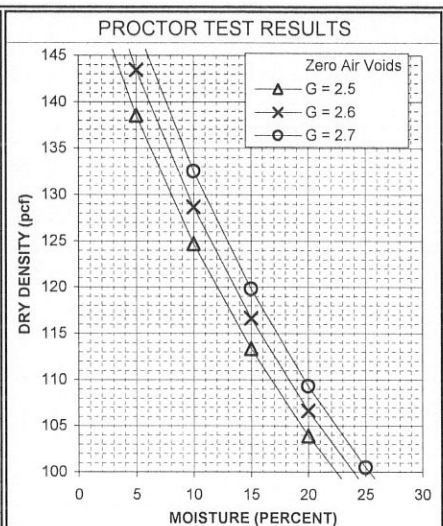
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 47.6        |                |                |          |
| LIQUID LIMIT     | D 4318      | 34%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 19%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 15%         |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNES VALUE   |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

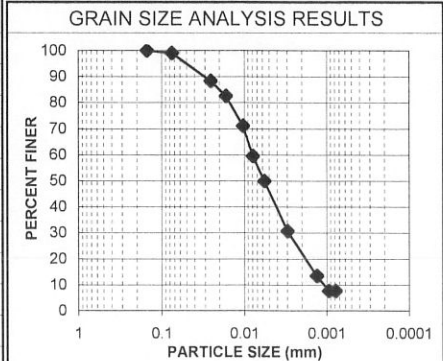
MAX DRY DENSITY (pcf):

OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

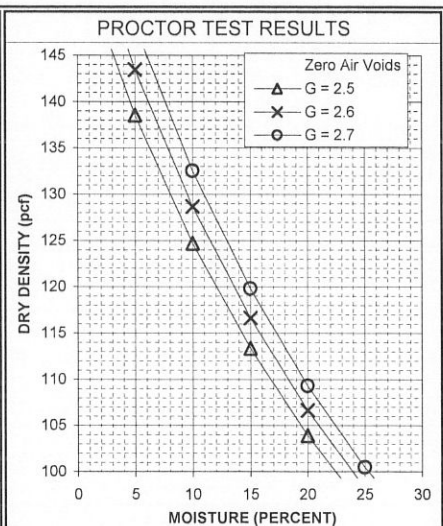
JOB STAMP:

PROJECT NO.: 402277002  
 PROJECT NAME: Weston Argonaut  
 CLIENT: Weston Solutions  
 FILE/PLAN NO.:

SAMPLE NO.: 2F-2-16-B  
 SAMPLED BY: Weston  
 DATE SAMPLED: 09/23/14  
 TESTED BY: JMK  
 REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings  
 SAMPLE DESCRIPTION:  
 INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 44.7        |                |                |          |
| LIQUID LIMIT     | D 4318      | 34%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 19%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 15%         |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNES VALUE   |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

MAX DRY DENSITY (pcf):

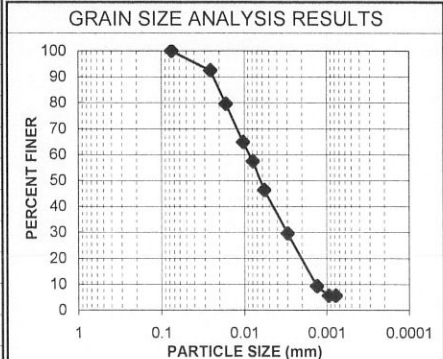
OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION

| GRAIN SIZE ANALYSIS (ASTM D422) |                    |                 |                |                |          |
|---------------------------------|--------------------|-----------------|----------------|----------------|----------|
| SIEVE                           | PARTICLE SIZE (mm) | PERCENT PASSING | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
| No. 200                         | 0.0750             | 100             |                |                |          |
|                                 | 0.0254             | 93              |                |                |          |
|                                 | 0.0166             | 80              |                |                |          |
|                                 | 0.0103             | 65              |                |                |          |
|                                 | 0.0079             | 57              |                |                |          |
|                                 | 0.0057             | 46              |                |                |          |
|                                 | 0.0030             | 30              |                |                |          |
|                                 | 0.0013             | 9               |                |                |          |
|                                 | 0.0009             | 6               |                |                |          |
|                                 | 0.0008             | 6               |                |                |          |



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

JOB STAMP:

PROJECT NO.: 402277002

SAMPLE NO.: 2F-2-27-B

PROJECT NAME: Weston Argonaut

SAMPLED BY: Weston

CLIENT: Weston Solutions

DATE SAMPLED: 09/23/14

FILE/PLAN NO.:

TESTED BY: JMK

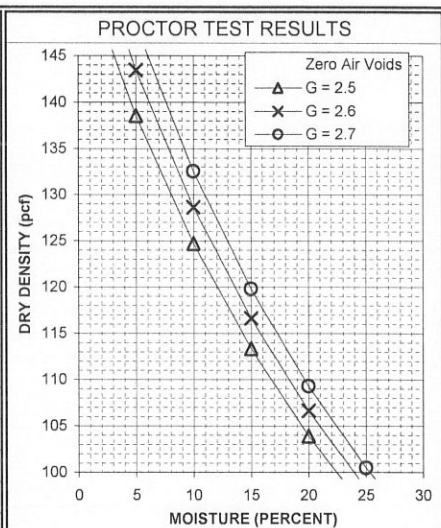
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 32.6        |                |                |          |
| LIQUID LIMIT     | D 4318      | 19%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 14%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 5%          |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNES VALUE   |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

MAX DRY DENSITY (pcf):

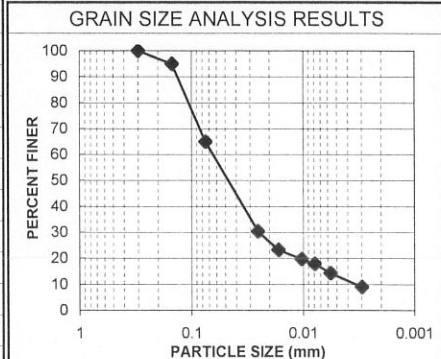
OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION

| GRAIN SIZE ANALYSIS (ASTM D422) |                    |                 |                |                |          |
|---------------------------------|--------------------|-----------------|----------------|----------------|----------|
| SIEVE                           | PARTICLE SIZE (mm) | PERCENT PASSING | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|                                 | mm                 | % Finer         |                |                |          |
| No. 50                          | 0.3000             | 100             |                |                |          |
| No. 100                         | 0.1500             | 95              |                |                |          |
| No. 200                         | 0.0750             | 65              |                |                |          |
|                                 | 0.0254             | 30              |                |                |          |
|                                 | 0.0166             | 23              |                |                |          |
|                                 | 0.0103             | 20              |                |                |          |
|                                 | 0.0079             | 18              |                |                |          |
|                                 | 0.0057             | 14              |                |                |          |
|                                 | 0.0030             | 9               |                |                |          |



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:



REVIEWED BY: KG

INTENDED USE:

**PROCTOR TEST RESULTS**

Zero Air Voids

- △ G = 2.5
- × G = 2.6
- G = 2.7

| Moisture (Percent) | Dry Density (pcf) G = 2.5 | Dry Density (pcf) G = 2.6 | Dry Density (pcf) G = 2.7 |
|--------------------|---------------------------|---------------------------|---------------------------|
| 4.5                |                           | 143.5                     |                           |
| 5.5                | 138.5                     |                           |                           |
| 10.5               | 124.5                     | 128.5                     | 132.5                     |
| 15.5               | 113.5                     | 116.5                     | 119.5                     |
| 20.5               | 108.5                     | 106.5                     | 109.5                     |
| 25.5               |                           |                           | 100.5                     |

\*WITH OVERSIZE CORRECTION

### GRAIN SIZE ANALYSIS RESULTS

The graph shows the grain size distribution of the sample. The x-axis represents Particle Size in millimeters on a logarithmic scale, ranging from 1 to 0.001. The y-axis represents Percent Finer, ranging from 0 to 100. The curve indicates that 100% of the sample is finer than 1.0 mm, 100% is finer than 0.425 mm, 48% is finer than 0.3 mm, 30% is finer than 0.25 mm, 10% is finer than 0.15 mm, 8% is finer than 0.125 mm, 5% is finer than 0.1 mm, 3% is finer than 0.075 mm, and 0% is finer than 0.06 mm.

| Particle Size (mm) | Percent Finer (%) |
|--------------------|-------------------|
| 1.0                | 100               |
| 0.425              | 100               |
| 0.3                | 48                |
| 0.25               | 30                |
| 0.15               | 10                |
| 0.125              | 8                 |
| 0.1                | 5                 |
| 0.075              | 3                 |
| 0.06               | 0                 |

CURVATURE COEFFICIENT:



SAMPLE NO.: 2F-3-45-B

SAMPLED BY: Weston

DATE SAMPLED: 09/24/14

TESTED BY: JMK

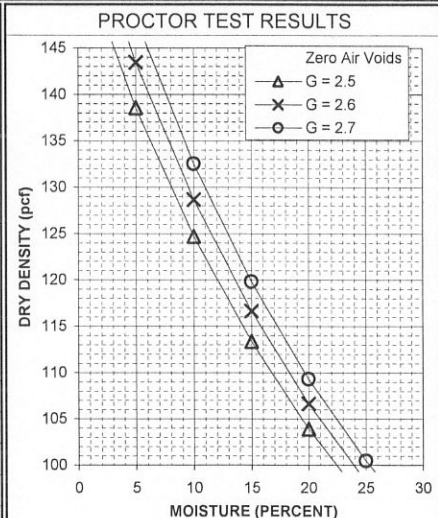
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE |     | COMMENTS |
|------------------|-------------|-------------|------------|-----|----------|
|                  |             |             | MIN        | MAX |          |
| USCS CLASS.      |             |             |            |     |          |
| WATER CONTENT    | D 2216      | 6.8         |            |     |          |
| LIQUID LIMIT     |             |             |            |     |          |
| PLASTIC LIMIT    |             |             |            |     |          |
| PLASTICITY INDEX | D 4318      | NP          |            |     |          |
| SPECIFIC GRAVITY |             |             |            |     |          |
| ABSORPTION       |             |             |            |     |          |
| SAND EQUIVALENT  |             |             |            |     |          |
| CLEANNES VALUE   |             |             |            |     |          |
| DURABILITY INDEX |             |             |            |     |          |
| EXPANSION INDEX  |             |             |            |     |          |
| R-VALUE          |             |             |            |     |          |
| pH               |             |             |            |     |          |
| RESISTIVITY      |             |             |            |     |          |
| CHLORIDE CONTENT |             |             |            |     |          |
| SULFATE CONTENT  |             |             |            |     |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

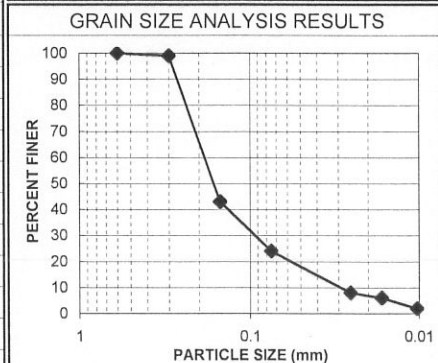
MAX DRY DENSITY (pcf):

OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION

[illegible]

10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

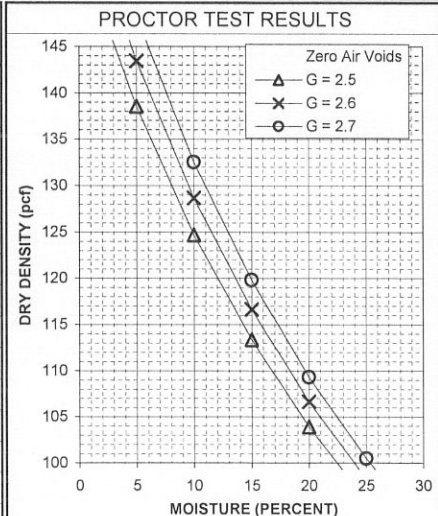
UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

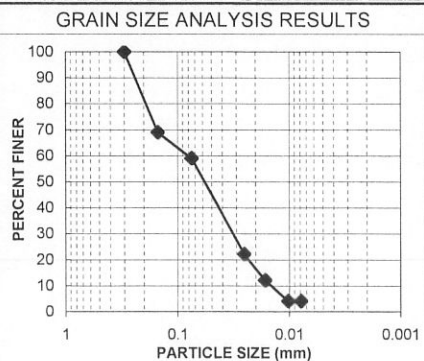


|               |           |
|---------------|-----------|
| SAMPLE NO.:   | 2F-4-16-B |
| SAMPLED BY:   | Weston    |
| DATE SAMPLED: | 09/25/14  |
| TESTED BY:    | JMK       |
| REVIEWED BY:  | KG        |

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE |     | COMMENTS |
|------------------|-------------|-------------|------------|-----|----------|
|                  |             |             | MIN        | MAX |          |
| USCS CLASS.      |             |             |            |     |          |
| WATER CONTENT    | D 2216      | 15.2        |            |     |          |
| LIQUID LIMIT     |             |             |            |     |          |
| PLASTIC LIMIT    |             |             |            |     |          |
| PLASTICITY INDEX | D 4318      | NP          |            |     |          |
| SPECIFIC GRAVITY |             |             |            |     |          |
| ABSORPTION       |             |             |            |     |          |
| SAND EQUIVALENT  |             |             |            |     |          |
| CLEANNESS VALUE  |             |             |            |     |          |
| DURABILITY INDEX |             |             |            |     |          |
| EXPANSION INDEX  |             |             |            |     |          |
| R-VALUE          |             |             |            |     |          |
| pH               |             |             |            |     |          |
| RESISTIVITY      |             |             |            |     |          |
| CHLORIDE CONTENT |             |             |            |     |          |
| SULFATE CONTENT  |             |             |            |     |          |



|                           |  |
|---------------------------|--|
| MAX PARTICLE SIZE:        |  |
| PERCENT OVERSIZE:         |  |
| MAX DRY DENSITY (pcf):    |  |
| OPTIMUM MOISTURE (%):     |  |
| MAX DRY DENSITY* (pcf):   |  |
| OPTIMUM MOISTURE* (%):    |  |
| *WITH OVERSIZE CORRECTION |  |

[illegible]

|                          |
|--------------------------|
| 10% FINER DIAMETER (mm): |
| 30% FINER DIAMETER (mm): |
| 60% FINER DIAMETER (mm): |
| UNIFORMITY COEFFICIENT:  |
| CURVATURE COEFFICIENT:   |

JOB STAMP:

PROJECT NO.: 402277002

SAMPLE NO.: 2F-4-28-B

PROJECT NAME: Weston Argonaut

SAMPLED BY: Weston

CLIENT: Weston Solutions

DATE SAMPLED: 09/26/14

FILE/PLAN NO.:

TESTED BY: JMK

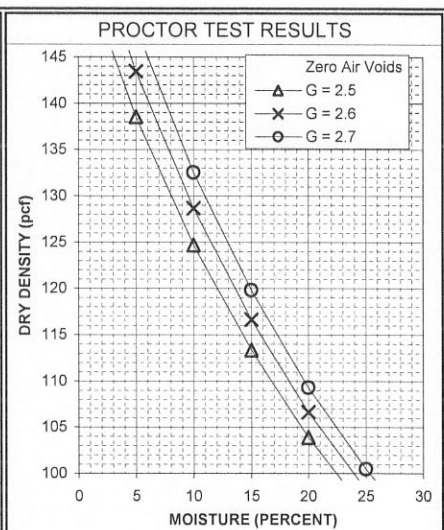
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 28.1        |                |                |          |
| LIQUID LIMIT     | D 4318      | 25%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 25%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 0%          |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNESS VALUE  |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

MAX DRY DENSITY (pcf):

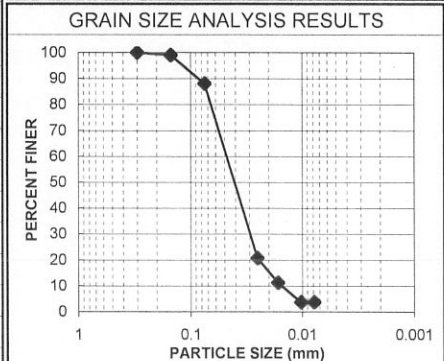
OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION

| GRAIN SIZE ANALYSIS (ASTM D422) |                    |                 |                |                |          |
|---------------------------------|--------------------|-----------------|----------------|----------------|----------|
| SIEVE                           | PARTICLE SIZE (mm) | PERCENT PASSING | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
| No. 50                          | 0.3000             | 100             |                |                |          |
| No. 100                         | 0.1500             | 99              |                |                |          |
| No. 200                         | 0.0750             | 88              |                |                |          |
|                                 | 0.0254             | 21              |                |                |          |
|                                 | 0.0166             | 11              |                |                |          |
|                                 | 0.0103             | 4               |                |                |          |
|                                 | 0.0079             | 4               |                |                |          |



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

JOB STAMP:

PROJECT NO.: 402277002

SAMPLE NO.: 2F-4-40.5-B

PROJECT NAME: Weston Argonaut

SAMPLED BY: Weston

CLIENT: Weston Solutions

DATE SAMPLED: 09/26/14

FILE/PLAN NO.:

TESTED BY: JMK

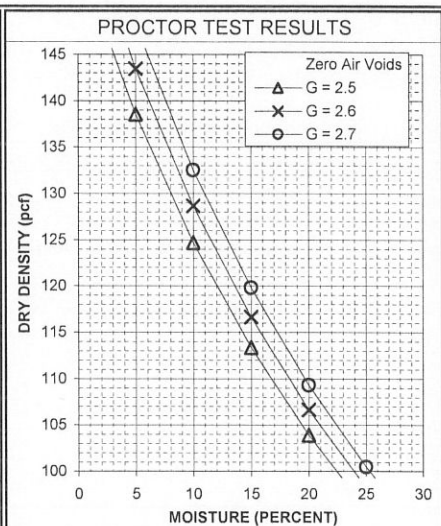
REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings

SAMPLE DESCRIPTION:

INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 32.5        |                |                |          |
| LIQUID LIMIT     | D 4318      | 26%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 24%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 2%          |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNES VALUE   |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

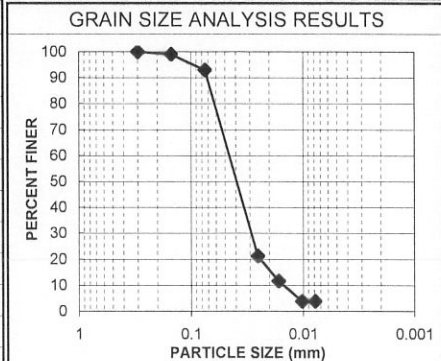
MAX DRY DENSITY (pcf):

OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT:

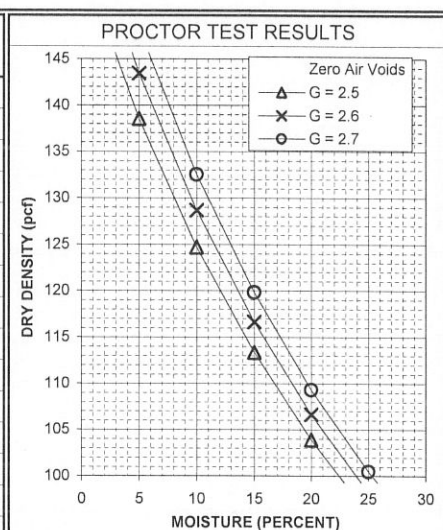
JOB STAMP:

PROJECT NO.: 402277002  
 PROJECT NAME: Weston Argonaut  
 CLIENT: Weston Solutions  
 FILE/PLAN NO.:

SAMPLE NO.: 2F-4-57-B  
 SAMPLED BY: Weston  
 DATE SAMPLED: 09/26/14  
 TESTED BY: JMK  
 REVIEWED BY: KG

SAMPLE SOURCE: Argonaut Mine Tailings  
 SAMPLE DESCRIPTION:  
 INTENDED USE:

| PARAMETER        | TEST METHOD | TEST RESULT | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|------------------|-------------|-------------|----------------|----------------|----------|
| USCS CLASS.      |             |             |                |                |          |
| WATER CONTENT    | D 2216      | 33.1        |                |                |          |
| LIQUID LIMIT     | D 4318      | 26%         |                |                |          |
| PLASTIC LIMIT    | D 4318      | 25%         |                |                |          |
| PLASTICITY INDEX | D 4318      | 1%          |                |                |          |
| SPECIFIC GRAVITY |             |             |                |                |          |
| ABSORPTION       |             |             |                |                |          |
| SAND EQUIVALENT  |             |             |                |                |          |
| CLEANNES VALUE   |             |             |                |                |          |
| DURABILITY INDEX |             |             |                |                |          |
| EXPANSION INDEX  |             |             |                |                |          |
| R-VALUE          |             |             |                |                |          |
| pH               |             |             |                |                |          |
| RESISTIVITY      |             |             |                |                |          |
| CHLORIDE CONTENT |             |             |                |                |          |
| SULFATE CONTENT  |             |             |                |                |          |



TEST METHOD:

MAX PARTICLE SIZE:

PERCENT OVERSIZE:

MAX DRY DENSITY (pcf):

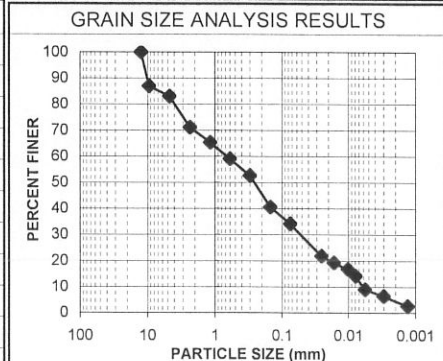
OPTIMUM MOISTURE (%):

MAX DRY DENSITY\* (pcf):

OPTIMUM MOISTURE\* (%):

\*WITH OVERSIZE CORRECTION

| GRAIN SIZE ANALYSIS (ASTM D422) |                    |                 |                |                |          |
|---------------------------------|--------------------|-----------------|----------------|----------------|----------|
| SIEVE                           | PARTICLE SIZE (mm) | PERCENT PASSING | SPEC RANGE MIN | SPEC RANGE MAX | COMMENTS |
|                                 | mm                 | % Finer         |                |                |          |
| 1/2"                            | 12.5000            | 100             |                |                |          |
| 3/8"                            | 9.5000             | 87              |                |                |          |
| No. 4                           | 4.7500             | 83              |                |                |          |
| No. 8                           | 2.3600             | 71              |                |                |          |
| No. 16                          | 1.1800             | 65              |                |                |          |
| No. 30                          | 0.6000             | 59              |                |                |          |
| No. 50                          | 0.3000             | 53              |                |                |          |
| No. 100                         | 0.1500             | 40              |                |                |          |
| No. 200                         | 0.0750             | 34              |                |                |          |
|                                 | 0.0254             | 22              |                |                |          |
|                                 | 0.0166             | 19              |                |                |          |
|                                 | 0.0103             | 17              |                |                |          |
|                                 | 0.0079             | 14              |                |                |          |
|                                 | 0.0057             | 9               |                |                |          |
|                                 | 0.0030             | 6               |                |                |          |



10% FINER DIAMETER (mm):

30% FINER DIAMETER (mm):

60% FINER DIAMETER (mm):

UNIFORMITY COEFFICIENT:

CURVATURE COEFFICIENT: