
SAMPLES FOR SUBMITTAL TO MATERIALS LABORATORY

When sampling materials for transmittal to a laboratory, place the samples in proper, secure containers with adequate labeling and submit with the appropriate paperwork.

Please use the following guidelines for samples that are submitted to the ODOT Central Materials Laboratory.

Although these guidelines are established for the ODOT Materials Laboratory, they are probably also appropriate for samples submitted to other laboratories.

Submit a properly completed Sample Data Sheet (Form 734-4000) with all samples that are delivered to the ODOT Materials Laboratory. There are three different types of Sample Data Sheets. The appropriate Sample Data Sheet must be used for the appropriate sample. Each sample should have its own Sample Data Sheet. **Do not** submit two types of samples (i.e. ¾”- ¼” and ¼”-0”) on one Sample Data Sheet. The Sample Data Sheet must be completed properly. Below is a list of information that must be included on the form for different types of samples. **If this information is missing the sample will not be accepted.**

Required on all data sheets:

- Valid Expenditure Account (EA) or Con Number
- Class of Sample (i.e. “Source/Product Compliance”)
- Submitted by name and contact number
- Appropriate Project contact person and number (not the Project Manager)

Material specific requirements:

Sample Data Sheet - (Form 734-4000)

- Used for submitting aggregate, asphalt/emulsion, and HMAC samples

Aggregate Samples:

- Aggregate size (i.e. ¾”- ¼”)
- Source Number
- Use of material (i.e. “Base Rock”)

Asphalt/Emulsion Liquid Oil Samples:

- Grade of material (i.e. “PG 64-22”)
- Name of the oil manufacturer (i.e. “McCall”)
- Lot and Sublot number (i.e. “1-1” or “1-5”)

HMAC Samples:

- Material
- Use of Material (i.e. “Level 3 HMAC”)
- Mix Design Number (include in “Remarks/Special Requirements” section)

Sample Data Sheet for Concrete Cylinders - (Form 734-4000C)

- Used for submitting concrete cylinder samples
 - Specified strength (i.e. “3300 psi”)
 - Number of days to break the concrete cylinders (i.e. “7 days” or “28 days”)
 - Date the concrete cylinders were cast (i.e. “September 30, 2008”)
 - Field test results, including curing and capping methods
- *Sample Data Sheet (Non Field-Tested Materials) – (Form 734-4000NFTM)*
 - Used for submitting non-field tested materials (Rebar, wire, etc.)
 - Certificate of Origin of Steel Materials (CMO) (for steel items only)
 - Test Result certificate (for steel items only)
 - Quality Compliance certificate (for steel items only)

Securely attach an identification label to each sample or container which shows:

- Contract Number**
- Sample Data Sheet (Form 734-4000) Number**
- Source of Material**

It is also helpful to place a second identifying label inside of the container (bag or bucket) of aggregates or similar material, in the event that the outside label is lost. Do not place the Sample Data Sheet in the bag.

Aggregate Sample Containers

-Use canvas or other tear-proof bags. Fabric mesh must contain the fine materials in the sample.

-19 liter (5 gallon) plastic buckets are also acceptable containers. Be sure that the lids are securely attached.

-The maximum weight of each sample container is 22 kg (50 lb). Use additional containers if a larger quantity is being submitted. Properly label each container.

-Secure or tie bags with cord or strong string. **Do not use wire.**

Asphalt Cement Containers

-Use plastic containers with tight lids for emulsified asphalt cements. Tape the lid onto the container to prevent leakage.

-Use metal containers with tight lids for other asphalt cements.

Note: Ensure containers are labeled with the following information: Contract #, CON #, Date sample was obtained, Grade of Oil & Supplier and Lot and Sublot the sample represents.

Other Sample Containers

For other samples, use containers that will adequately contain the enclosed sample and will protect the sample from weather or other elements if needed.

REQUIRED SAMPLE SIZES

| MATERIALS AND CONSTITUENTS | MIX DESIGN | QUALITY CONTROL OR PRODUCT COMPLIANCE |
|--|--------------------------------|--|
| <p>SOIL</p> <p>TOPSOIL</p> <p>BASE AGGREGATE</p> <p>AGGREGATE</p> <p>SUB-BASE AGGREGATE</p> <p>CEMENT TREATED BASE</p> <p>AGGREGATE</p> <p>ROCK GABIONS & RIPRAP</p> <p>AGGREGATE</p> <p>[Maximum size of individual pieces to be 0.01 cu. M (1/4 cu. Ft.)]</p> <p>MSE WALL BACKFILL MATERIAL (ALL TYPES)</p> | <p>110 kg (250 lbs) 5 bags</p> | <p>10 kg (25 lbs.) 1 bag</p> <p>45 kg (100 lbs) 2 bags</p> <p>45 kg (100 lbs) 2 bags</p> <p>45 kg (100 lbs) 2 bags</p> <p>68 kg (150 lbs) 3 bags</p> |
| <p>NOTE: Submit a completed Sample Data Sheet (Form 734-4000) with each sample. Include all the required information or the sample will not be accepted. (Properly label each container).</p> <p>See Section 4(A) for samples to be submitted for source/product compliance testing.</p> | | |

REQUIRED SAMPLE SIZES

| <p>MATERIALS AND CONSTITUENTS</p> | <p>VERIFICATION OF CONTRACTOR MIX DESIGN</p> | <p>QUALITY CONTROL OR PRODUCT COMPLIANCE</p> |
|---|--|---|
| <p>HMAC PAVEMENT (DENSE GRADED) ASPHALT CEMENT</p> <p>HMAC PAVEMENT (OPEN GRADED) ASPHALT CEMENT</p> <p>EAC PAVEMENT EMULSIFIED ASPHALT CEMENT</p> | <p>If JMF verification is requested by ODOT, submit samples to the ODOT Materials Laboratory in Salem according to the guidelines set forth in the current “Contractor Mix Design Guidelines for Asphalt Concrete”. Use the guideline version that coincides with the date the contract was advertised.</p> <p>This document can be found on the ODOT website.</p> | <p>2-0.95 liter (1 qt) metal containers</p> <p>2-0.95 liter (1 qt) metal containers</p> <p>2-0.95 liter (1 qt) plastic containers</p> |
| <p>NOTE: Submit a completed Sample Data Sheet (Form 734-4000) with each sample. Include all the required information or the sample will not be accepted. (Properly label each container).</p> <p>See Section 4(A) for samples to be submitted for source/product compliance testing</p> | | |

SAMPLE DATA SHEET

LABORATORY REPORT NUMBER

| | | |
|---------------------------|--|-----------------|
| * CON NO. & EA | * DATA SHEET NUMBER F - - | |
| PROJECT NAME (SECTION) | | CONTRACT NUMBER |
| CONTRACTOR OR SUPPLIER | PROJECT MANAGER | CREW NUMBER |

COMPLETE THIS SECTION FOR ALL SAMPLES One Data Sheet Per Asphalt Cement Type or Aggregate Size

| | | | |
|--|---|---|---------------|
| * MATERIAL (DESCRIPTION, SIZE, GRADE, BRAND) | | * USE OF MATERIAL | |
| * SOURCE OF MATERIAL (MANUFACTURER, SUPPLIER, OR SOURCE NO. & NAME FOR NATURAL MATERIALS) | | SAMPLED AT (LOCATION OR STATION NUMBERS) | |
| NUMBER OF SAMPLES (BAGS, BOXES, OTHER) | QUANTITY REPRESENTED BY SAMPLE | DATE SAMPLED | |
| * CLASS OF SAMPLE | | | DATE SHIPPED |
| <input type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | <input type="checkbox"/> THIRD PARTY | |
| <input type="checkbox"/> SOURCE/PRODUCT COMPLIANCE | <input type="checkbox"/> OTHER (SPECIFY IN REMARKS) | BID ITEM NUMBER | SAMPLE NUMBER |
| * FIELD TESTED OR SUBMITTED BY (PRINT NAME) | | SIGNATURE | |
| COMPANY NAME | | | |
| STREET ADDRESS | | CREW NUMBER | |
| CITY, STATE AND ZIP CODE | | * PHONE NUMBER | |
| * PROJECT CONTACT PERSON | | * CONTACT PHONE NUMBER | |

| ASPHALT CEMENT | | REMARKS / SPECIAL REQUIREMENTS |
|-----------------|---------|--------------------------------|
| ** Lot & Sublot | ** Date | |
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Note: * Required information. If information is missing, testing will be delayed.
 ** Additional information required for Asphalt Cement samples.

SAMPLE DATA SHEET

LABORATORY REPORT NUMBER

| | | |
|---|---|---------------------------------|
| CON NO. & EA CON01111 | DATA SHEET NUMBER F - 43048 - 001 | |
| PROJECT NAME (SECTION) Form Example | | CONTRACT NUMBER 12345 |
| CONTRACTOR OR SUPPLIER ODOT Forms | PROJECT MANAGER Sean Parker | CREW NUMBER 1234 |

| | | | | | |
|--|--|--|---|--------------------------------------|-----------------------------------|
| COMPLETE THIS SECTION FOR ALL SAMPLES | | | One Data Sheet Per Asphalt Cement Type or Aggregate Size | | |
| * MATERIAL (DESCRIPTION, SIZE, GRADE, BRAND) PG 64 - 28 | | | * USE OF MATERIAL Base & Leveling 1/2" HMAC | | |
| * SOURCE OF MATERIAL (MANUFACTURER, SUPPLIER, OR SOURCE NO. & NAME FOR NATURAL MATERIALS) Albina | | | SAMPLED AT (LOCATION OR STATION NUMBERS) Truck at Plant | | |
| NUMBER OF SAMPLES (BAGS, BOXES, OTHER) 12 cans | | QUANTITY REPRESENTED BY SAMPLE 1 per 1000 ton HMAC subplot | | DATE SAMPLED 10/18/2006 | |
| * CLASS OF SAMPLE | | | | DATE SHIPPED 10/19/2006 | |
| <input checked="" type="checkbox"/> QUALITY CONTROL | | <input type="checkbox"/> VERIFICATION | | <input type="checkbox"/> THIRD PARTY | |
| <input type="checkbox"/> SOURCE/PRODUCT COMPLIANCE | | <input type="checkbox"/> OTHER (SPECIFY IN REMARKS) | | BID ITEM NUMBER 580 | SAMPLE NUMBER see below |
| * FIELD TESTED OR SUBMITTED BY (PRINT NAME) Scott Aker | | | SIGNATURE | | |
| COMPANY NAME Eek Testers LLC | | | | | |
| STREET ADDRESS 123 Hwy St | | | CREW NUMBER 1234 | | |
| CITY, STATE AND ZIP CODE Roseburg, OR 97470 | | | * PHONE NUMBER (123)123-1234 | | |
| * PROJECT MANAGER CONTACT John Consultant #98764 | | | * CONTACT PHONE NUMBER (321) 321-4321 | | |

| ASPHALT CEMENT | | REMARKS / SPECIAL REQUIREMENTS |
|-----------------|------------|--|
| ** Lot & Sublot | ** Date | |
| 1-1 | 10/16/2006 | <p style="text-align: center;">"The EA (or Con Number), Data sheet number, grade of the material (i.e. "PG 64-22"), name of the oil manufacturer, class of sample, lot and subplot, date, submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet."</p> <p style="text-align: center;">Please make sure to label the SAMPLE containers with; Product ID (CSS 1 Tack or 19 mm Base Agg), Test number (Lot & Sublot), Date, and Data Sheet Number.</p> <p style="text-align: center;">In a manner that will with stand the elements (water, wind, and wild shipping companies).</p> |
| 1-2 | 10/16/2006 | |
| 1-3 | 10/17/2006 | |
| 1-4 | 10/17/2006 | |
| 1-5 | 10/18/2006 | |
| 2-1 | 10/18/2006 | |
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Note: * Required information. If information is missing, testing will be delayed.
 ** Additional information required for Asphalt Cement samples.

SAMPLE DATA SHEET

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|---|---|----------------------------|
| CON NO. & EA CON01111 | DATA SHEET NUMBER F - 43048 - 001 | |
| PROJECT NAME (SECTION) Form Example | | CONTRACT NUMBER |
| CONTRACTOR OR SUPPLIER ODOT Forms | PROJECT MANAGER Sean Parker | CREW NUMBER 1234 |

COMPLETE THIS SECTION FOR ALL SAMPLES One Data Sheet Per Asphalt Cement Type or Aggregate Size

| | |
|--|---|
| * MATERIAL (DESCRIPTION, SIZE, GRADE, BRAND) 3/4"-0 | * USE OF MATERIAL Base Aggregate |
| * SOURCE OF MATERIAL (MANUFACTURER, SUPPLIER, OR SOURCE NO. & NAME FOR NATURAL MATERIALS) Newton Creek Quarry 10-216-3 | SAMPLED AT (LOCATION OR STATION NUMBERS) Final Belt |
| NUMBER OF SAMPLES (BAGS, BOXES, OTHER) 2 Bags | QUANTITY REPRESENTED BY SAMPLE Annual Compliance |
| * CLASS OF SAMPLE | |
| <input type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> VERIFICATION <input type="checkbox"/> THIRD PARTY | |
| <input checked="" type="checkbox"/> SOURCE/PRODUCT COMPLIANCE <input type="checkbox"/> OTHER (SPECIFY IN REMARKS) | |
| * FIELD TESTED OR SUBMITTED BY (PRINT NAME) Scott Aker | SIGNATURE |
| COMPANY NAME Eek Testers LLC | |
| STREET ADDRESS 123 Hwy St | CREW NUMBER 1234 |
| CITY, STATE AND ZIP CODE Roseburg, OR 97470 | * PHONE NUMBER (123)123-1234 |
| * PROJECT CONTACT PERSON John Consultant #98764 | * CONTACT PHONE NUMBER (321) 321-4321 |

| ASPHALT CEMENT | REMARKS / SPECIAL REQUIREMENTS |
|-----------------|--|
| ** Lot & Sublot | ** Date |
| | <p>"The EA (or Con Number), Data sheet number, size of material (i.e. 3/4" - 1/4"), source number, use of material (i.e. "Base Rock"), class of sample, submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet."</p> |
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Note: * Required information. If information is missing, testing will be delayed.
 ** Additional information required for Asphalt Cement samples.

SAMPLE DATA SHEET

LABORATORY REPORT NUMBER

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|---|---|---------------------------------|
| CON NO. & EA CON01111 | DATA SHEET NUMBER F - 43048 - 001 | |
| PROJECT NAME (SECTION) Form Example | | CONTRACT NUMBER 12345 |
| CONTRACTOR OR SUPPLIER ODOT Forms | PROJECT MANAGER Sean Parker | CREW NUMBER 1234 |

COMPLETE THIS SECTION FOR ALL SAMPLES One Data Sheet Per Asphalt Cement Type or Aggregate Size

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|---|--|--|-----------------------------------|
| * MATERIAL (DESCRIPTION, SIZE, GRADE, BRAND) L3 1/2" Dense HMAc | | * USE OF MATERIAL Base and Leveling | |
| * SOURCE OF MATERIAL (MANUFACTURER, SUPPLIER, OR SOURCE NO. & NAME FOR NATURAL MATERIALS) Industry Standard LLC | | SAMPLED AT (LOCATION OR STATION NUMBERS) Plant Discharge | |
| NUMBER OF SAMPLES (BAGS, BOXES, OTHER) 2 10,000g Boxes | QUANTITY REPRESENTED BY SAMPLE | | DATE SAMPLED 10/18/2006 |
| * CLASS OF SAMPLE | | | DATE SHIPPED 10/19/2006 |
| <input type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | <input type="checkbox"/> THIRD PARTY | BID ITEM NUMBER 570 |
| <input type="checkbox"/> SOURCE/PRODUCT COMPLIANCE | <input checked="" type="checkbox"/> OTHER (SPECIFY IN REMARKS) | | |
| * FIELD TESTED OR SUBMITTED BY (PRINT NAME) Scott Aker | | SIGNATURE | |
| COMPANY NAME Eek Testers LLC | | CREW NUMBER 1234 | |
| STREET ADDRESS 123 Hwy St | | * PHONE NUMBER (123)123-1234 | |
| CITY, STATE AND ZIP CODE Roseburg, OR 97470 | | * CONTACT PHONE NUMBER (321) 321-4321 | |
| * PROJECT CONTACT PERSON John Consultant #98764 | | | |

| ASPHALT CEMENT | REMARKS / SPECIAL REQUIREMENTS |
|-----------------|---|
| ** Lot & Sublot | ** Date |
| | <p>"The EA (or Con Number), Data sheet number, material (i.e. "level 3 HMAc"), use of material (i.e. "Base lift"), class of sample, Mix Design Number (include in the "Remarks/Special Requirements" Section), submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet."</p> <p>2 boxes of mix for testing per AASHTO T308, AASHTO T30 and AASHTO T209.</p> <p style="text-align: center;">08-MD0001</p> |
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Note: * Required information. If information is missing, testing will be delayed.
 ** Additional information required for Asphalt Cement samples.

SAMPLE DATA SHEET FOR CONCRETE CYLINDERS

English (E) or Metric (M)

| | | | | | | | |
|--|---------------------------------------|---------------------------------------|--|--|--|--------------------------|--------------------|
| * CON NO. & EA | | DATA SHEET NUMBER F - - | | LABORATORY REPORT NUMBER | | | |
| PROJECT NAME (SECTION) | | | | | CONTRACT NUMBER | | |
| CONTRACTOR | | | PROJECT MANAGER | | BID ITEM NUMBER | | |
| CONCRETE SUPPLIER | | | * SUBMITTED BY | | QUANTITY REPRESENTED yd ³ (m ³) | | |
| CONCRETE FOR USE IN (LOCATION OR PLACEMENT) | | | BRIDGE NUMBER | * SPECIFIED STRENGTH PSI(MPa) DAYS | | | |
| REPRESENTED BY NO. OF CYLS. | SET NUMBER | * DATE CAST | DATE SHIPPED | CYLINDER SIZE | INVOICE NUMBER | | |
| * TEST SPECIMENS AT DAYS INDICATED | | | | | YIELD yd ³ (m ³) | | |
| A. | B. | C. | D. | E. | F. | G. | H. |
| * MIX DESIGN | * ODOT LAB / MIX DESIGN NUMBER | * CONCRETE SUPPLIER MIX DESIGN NUMBER | * DESIGN CEMENTITIOUS MATERIAL CONTENT lb/yd ³ kg/m ³ | * FREE (SURFACE) MOISTURE | | | |
| | | | | * COARSE #1 | * COARSE #2 | * COARSE #3 | * SAND |
| | | | | % | % | % | % |
| * AMBIENT TEMP. °F °C | * CONCRETE TEMP °F °C | * SLUMP in mm | * AIR CONTENT % | * UNIT WEIGHT lb/ft ³ kg/m ³ | * CEMENTITIOUS MAT. CONTENT lb/yd ³ kg/m ³ | * FIELD W/C RATIO BY WT. | |
| * ADDITIVES oz ml | * CEMENT lb ka | * FLYASH lb ka | * SILICA lb kg | * WATER BATCHED lb | * NET WEIGHT | * POT CALIBRATION | |
| * AGGREGATE #1 lb ka | * AGGREGATE #2 lb ka | * AGGREGATE #3 lb ka | * FINE AGG (SAND) lb kg | * WATER AT JOB lb | * CURING | * CAPPING | |
| * PROJECT CONTACT PERSON | | | * CONTACT PHONE NUMBER | | * TIME CYL CAST | * LOW TEMP. °F °C | * HIGH TEMP. °F °C |
| FIELD REMARKS | | | | | | | |
| <input type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | <input type="checkbox"/> INFO | * PHONE No. | | FAX No. | | |
| T 23 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER | | | COMPANY NAME | SIGNATURE | DATE | | |

LAB USE ONLY BELOW

| CYLINDER ID | DATE OF BREAK | AGE DAYS | MAXIMUM LOAD | CYLINDER AREA | STRENGTH PSI(MPa) | COMPOUND TYPE / PAD DUROMETER | BREAK TYPE | REMARKS |
|-------------|---------------|----------|--------------|---------------|-------------------|-------------------------------|------------|---------|
| A | | | | | | | | |
| B | | | | | | | | |
| C | | | | | | | | |
| D | | | | | | | | |
| E | | | | | | | | |
| F | | | | | | | | |
| G | | | | | | | | |
| H | | | | | | | | |

 AVE _____ DAY
 PASS

 FAIL

COMMENTS (WHEN MATERIAL ,CYLINDERS OR DATA RECEIVED)

| | | | |
|--|---------------------------------------|-----------------|---------------------|
| <input type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | CYLINDERS REC'D | DATA SHEET REC'D |
| T 22 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER | | COMPANY NAME | SIGNATURE DATE |

Note: * Required information. If this information is missing, testing will be delayed.

SAMPLE DATA SHEET FOR CONCRETE CYLINDERS

E

English (E) or Metric (M)

| | | | | | | | |
|--|------------------------------------|--|---|--|-----------------------------------|---|---|
| CON NO. & EA CON01234 | | DATA SHEET NUMBER F - 43048 - 001 | | LABORATORY REPORT NUMBER | | | |
| PROJECT NAME (SECTION) Forms Example | | | | | | CONTRACT NUMBER 12345 | |
| CONTRACTOR ODOT Forms | | | PROJECT MANAGER Sean Parker | | | BID ITEM NUMBER 123 | |
| CONCRETE SUPPLIER The Best Ready Mix | | | * SUBMITTED BY Scott Aker | | | QUANTITY REPRESENTED 150 yd³ | |
| CONCRETE FOR USE IN (LOCATION OR PLACEMENT) Deck | | | | BRIDGE NUMBER 1234a | | * SPECIFIED STRENGTH 5000 PSI 28 DAYS | |
| REPRESENTED BY NO. OF CYLS. 5 | | SET NUMBER 1 | * DATE CAST 8/25/08 | | DATE SHIPPED 8/26/08 | CYLINDER SIZE 4" x 8" | INVOICE NUMBER 123456 |
| * TEST SPECIMENS AT DAYS INDICATED | | | | | | | YIELD |
| A. 7 | B. 14 | C. 28 | D. 28 | E. 28 | F. | G. | H. 9.23 yd³ |
| * MIX DESIGN 08-0001 | * ODOT LAB / MIX DESIGN NUMBER | * CONCRETE SUPPLIER MIX DESIGN NUMBER BRMHPC5000FM | | * DESIGN CEMENTITIOUS MATERIAL CONTENT 780 lb/ft³ | | * FREE (SURFACE) MOISTURE | |
| | | | | | | * COARSE #1 0.30 % | * COARSE #2 % |
| | | | | | | * COARSE #3 % | * SAND 7.90 % |
| * AMBIENT TEMP. 40.5 °F | * CONCRETE TEMP. 60.5 °F | * SLUMP 6 1/2" in | * AIR CONTENT 4.9 % | * UNIT WEIGHT 144.9 lb/ft³ | | * CEMENTITIOUS MAT. CONTENT 779 lb/ft³ | * FIELD W/C RATIO 0.29 BY WT. |
| * ADDITIVES 1156 oz | | * CEMENT 4735 lb | * FLYASH 2165 lb | * SILICA 288 lb | * WATER BATCHED 1186 lb | * NET WEIGHT 36.22 | * POT CALIBRATION 0.249900 |
| * AGGREGATE #1 17600 lb | * AGGREGATE #2 0 lb | * AGGREGATE #3 0 lb | * FINE AGG (SAND) 10080 lb | * WATER AT JOB 0 lb | * CURING Tank | * CAPPING Pad | |
| * PROJECT CONTACT PERSON John Consultant | | | * CONTACT PHONE NUMBER 123-123-1234 | | | * TIME CYL CAST 7:30am | * LOW TEMP. 65 °F |
| | | | | | | * HIGH TEMP. 75 °F | |

FIELD REMARKS

"The EA (or Con Number), Data sheet number, specified strength, date cast, the number of days to test the specimens, and the field test results including the curing and capping methods, submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet."

| | | | | | | |
|--|---------------------------------------|-------------------------------|--|--|-----------------------------|--|
| <input checked="" type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | <input type="checkbox"/> INFO | * PHONE No. 123-123-1234 | | FAX No. 123-123-9876 | |
| * 23 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Scott Aker #43048 | | | COMPANY NAME ODOT Region 3 QA Unit | | SIGNATURE 8/25/08 | |

LAB USE ONLY BELOW

| CYLINDER ID | DATE OF BREAK | AGE DAYS | MAXIMUM LOAD | CYLINDER AREA | STRENGTH PSI | COMPOUND TYPE / PAD DUROMETER | BREAK TYPE | REMARKS |
|-------------|---------------|----------|--------------|---------------|--------------|-------------------------------|------------|---------|
| A | 09/01/08 | 7 | 52500 | 12.56 | 4180 | 60 | Shear | |
| B | 09/08/08 | 14 | 59500 | 12.56 | 4740 | 60 | Shear | |
| C | 09/22/08 | 28 | 69540 | 12.56 | 5540 | 60 | Cone | |
| D | 09/22/08 | 28 | 70330 | 12.56 | 5600 | 60 | Shear | |
| E | 09/22/08 | 28 | 71850 | 12.56 | 5720 | 60 | Shear | |
| F | | | | | | | | |
| G | | | | | | | | |
| H | | | | | | | | |

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COMMENTS (WHEN MATERIAL ,CYLINDERS OR DATA RECEIVED)

| | | | | | |
|--|---------------------------------------|----------------------------------|--|----------------------------------|-------------------------------|
| <input checked="" type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | CYLINDERS REC'D 8/26/2008 | | DATA SHEET RECD 8/26/2008 | |
| * 22 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Scott Aker #43048 | | | COMPANY NAME ODOT Region 3 QA Unit | | SIGNATURE 9/22/2008 |

Note: * Required information. If this information is missing, testing will be delayed.

SAMPLE DATA SHEET FOR CONCRETE CYLINDERS

M

English (E) or Metric (M)

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|--|---|---|-------------------------------------|---|--|---|---|------------------------------|
| * CON NO. & EA CON01234 | | * DATA SHEET NUMBER F - 43048 - 001 | | LABORATORY REPORT NUMBER | | | | |
| PROJECT NAME (SECTION) Forms Example | | | | | | CONTRACT NUMBER 12345 | | |
| CONTRACTOR ODOT Forms | | | | PROJECT MANAGER Sean Parker | | BID ITEM NUMBER 123 | | |
| CONCRETE SUPPLIER The Best Ready Mix | | | | * SUBMITTED BY Scott Aker | | QUANTITY REPRESENTED m³ | | |
| CONCRETE FOR USE IN (LOCATION OR PLACEMENT) Deck | | | | BRIDGE NUMBER 1234a | | * SPECIFIED STRENGTH 30 MPa 28 DAYS | | |
| REPRESENTED BY NO. OF CYLS. 5 | | SET NUMBER 1 | * DATE CAST 8/25/08 | DATE SHIPPED 8/26/08 | | CYLINDER SIZE 100 x 200mm | INVOICE NUMBER 123456 | |
| * TEST SPECIMENS AT DAYS INDICATED | | | | | | YIELD | | |
| A. 7 | B. 14 | C. 28 | D. 28 | E. 28 | F. | G. | H. 6.69 m³ | |
| * MIX DESIGN | * ODOT LAB / MIX DESIGN NUMBER 08-00001 | * CONCRETE SUPPLIER MIX DESIGN NUMBER BRMhpc30mpafm | | * DESIGN CEMENTITIOUS MATERIAL CONTENT 490 kg/m³ | * FREE (SURFACE) MOISTURE | | * SAND | |
| | | | | | * COARSE #1 2.60 % | * COARSE #2 2.00 % | * COARSE #3 2.25 % | |
| * AMBIENT TEMP. 22 °C | * CONCRETE TEMP. 20 °C | * SLUMP 185 mm | * AIR CONTENT 5.5 % | * UNIT WEIGHT 2439 kg/m³ | * CEMENTITIOUS MAT. CONTENT 492 kg/m³ | | * FIELD W/C RATIO 0.29 BY WT. | |
| * ADDITIVES 14846 ml | * CEMENT 2168 kg | * FLYASH 978 kg | * SILICA 144 kg | * WATER BATCHED 372 L | * NET WEIGHT 17.3 | * POT CALIBRATION 0.007092 | | |
| * AGGREGATE #1 4917 kg | * AGGREGATE #2 2939 kg | * AGGREGATE #3 1225 kg | * FINE AGG (SAND) 3568 kg | * WATER AT JOB 0 L | * CURING Tank | * CAPPING Pad | | |
| * PROJECT CONTACT PERSON John Consultant | | | | * CONTACT PHONE NUMBER 123-234-5678 | | * TIME CYL CAST 7:30am | * LOW TEMP. 18.5 °C | * HIGH TEMP. 23 °C |
| FIELD REMARKS | | | | | | | | |
| "The EA (or Con Number), Data sheet number, specified strength, date cast, the number of days to test the specimens, and the field test results including the curing and capping methods, submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet." | | | | | | | | |
| <input checked="" type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | <input type="checkbox"/> INFO | * PHONE No. 123-123-1234 | | FAX No. 123-123-9876 | | | |
| T 23 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Scott Aker #43048 | | | | COMPANY NAME ODOT Region 3 QA | | SIGNATURE | DATE 8/25/08 | |

LAB USE ONLY BELOW

| CYLINDER ID | DATE OF BREAK | AGE DAYS | MAXIMUM LOAD | CYLINDER AREA | STRENGTH MPa | COMPOUND TYPE / PAD DUROMETER | BREAK TYPE | REMARKS |
|-------------|---------------|----------|--------------|---------------|--------------|-------------------------------|------------|---------|
| A | 09/01/08 | 7 | 191250 | 8107 | 23.6 | 60 | Cone | |
| B | 09/08/08 | 14 | 226950 | 8107 | 28 | 60 | Shear | |
| C | 09/22/08 | 28 | 255690 | 8107 | 34.5 | 60 | Shear | |
| D | 09/22/08 | 28 | 249580 | 8107 | 30.8 | 60 | Cone | |
| E | 09/22/08 | 28 | 258410 | 8107 | 31.9 | 60 | Shear | |
| F | | | | | | | | |
| G | | | | | | | | |
| H | | | | | | | | |

AVE 28 DAY 31.4 MPa

PASS FAIL

COMMENTS (WHEN MATERIAL, CYLINDERS OR DATA RECEIVED)

| | | | | | |
|--|---------------------------------------|----------------------------------|--|--|--------------------------|
| <input checked="" type="checkbox"/> QUALITY CONTROL | <input type="checkbox"/> VERIFICATION | CYLINDERS REC'D 8/26/2008 | | DATA SHEET RECD 8/26/2008 | |
| T 22 CERTIFIED TECHNICIAN (PLEASE PRINT) AND CARD NUMBER Scott Aker #43048 | | | | COMPANY NAME ODOT Region 3 QA Unit | |
| | | | | SIGNATURE | DATE 9/22/2008 |

Note: * Required information. If this information is missing, testing will be delayed.

SAMPLE DATA SHEET (NONFIELD-TESTED MATERIALS)

LABORATORY REPORT NUMBER

| | | |
|---|---|---------------------------------|
| * CON NO. & EA OTIA-S006(44) / 2142B005 | * DATA SHEET NUMBER F - 43048 - 123 | |
| PROJECT NAME (SECTION) Forms Example | | CONTRACT NUMBER 12345 |
| CONTRACTOR OR SUPPLIER ODOT Forms Example | PROJECT MANAGER Sean Parker | CREW NUMBER 1234 |

| | |
|--|---|
| * SUBMITTED BY (PRINT NAME) Scott Aker | SIGNATURE |
| COMPANY NAME ODOT | |
| STREET ADDRESS 123 State Highway | CREW NUMBER 1234 |
| CITY, STATE AND ZIP CODE Salem, OR 97301 | * PHONE NUMBER (123) 123-1234 |
| * PROJECT CONTACT PERSON John Consultant | * CONTACT PHONE NUMBER (567) 567-5678 |

| | |
|---|----------------------------------|
| SUPPORTING WORKSHEETS <input type="checkbox"/> ATTACHED <input checked="" type="checkbox"/> FAXED <input type="checkbox"/> MAILED <input type="checkbox"/> E-MAIL | DATE SHIPPED 8/11/2008 |
| CLASS OF SAMPLE <input checked="" type="checkbox"/> QUALITY CONTROL <input type="checkbox"/> VERIFICATION <input type="checkbox"/> OTHER (SPECIFY IN REMARKS) | BID ITEM NUMBER 123 |

| Description Of Item | Mfg - Source | Qty | Heat # | Lot # | LAB USE ONLY |
|---------------------|--------------|-----|--------|-------|--------------|
| 2" x 48" Anchor Rod | Sheffield | 24 | 510034 | 1812 | |
| 2" Nut | Dyson | 48 | 51004 | YDAX | |
| 2" Washer | Binder | 48 | 1412 | S7914 | |
| 7/8" x 3" Bolt | Nucor | 53 | 911105 | D1865 | |
| 7/8" x 3 1/2" Bolt | St Louis | 75 | 14256 | none | |
| 7/8" x 4 1/2" Bolt | Sheffield | 50 | 5103 | T123 | |
| 7/8" Nut | Unytite | 137 | 74015 | none | |
| 7/8" Washer | Binder | 142 | H4215 | X4831 | |
| 3/4" x 5" Bolt | North Star | 115 | 510023 | none | |
| 3/4" Nut | Nucor | 115 | 45123 | S5145 | |
| 3/4" Washer | Binder | 74 | 11542 | XDYA | |
| 3/4" x 36" U bolt | Nucor | 15 | 91154 | none | |
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REMARKS / SPECIAL REQUIREMENTS

Industry standard for this type of material is English Units. Do not convert to Metric Units when filling out this form.

"The EA (or Con Number), Data sheet number, submitted by name and contact number, and project contact person name and contact number is required for the sample to be accepted. Only one type of sample may be submitted per Sample Data Sheet. In addition, for steel items only, the Certificate of Origin of Steel Materials (CMO), Test Result certificate, and the Quality Compliance certificate are required for the sample to be accepted."

Note: * Required information. If this information is missing, testing will be delayed.