

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

INDEX

VENDOR NO.	VENDOR AND SOURCE
5	J.H. LYNCH; FIRST ST. QUARRY
8	PJ KEATING; PHENIX AVENUE QUARRY
13	DRY BRIDGE S and S; SLOCUM PIT
21	PJ KEATING; SOUTH MAIN ST. QUARRY
24	BROX IND. - DRACUT; DRACUT QUARRY
29	CHERENZIA; OLD HOPKINTON RD.
31	SOUTH COUNTY S and G; CHARLESTOWN PIT
49	G. LOPES; BELL ROCK RD. PIT
50	MATERIALS SAND and STONE; POUND HILL ROAD QUARRY
58	CHERENZIA-WHITE ROCK; WHITE ROCK QUARRY
61	DYER; DYER QUARRY
66	CARDI CORP.; Hopkins Hill Road
68	CUMBERLAND QUARRY .; MANVILLE HILL ROAD
71	T.L. EDWARDS; PLYMOUTH, MA
73	BIRDSBORO MATERIALS; BIRDSBORO PA
77	P.A. LANDERS; HANOVER PIT

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
J.H. LYNCH

VENDOR NO:
5

SOURCE:
FIRST ST. QUARRY

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	99.6	100.0	100.0
1/2"	23.7	80.4	100.0
3/8"	8.3	17.7	96.8
#4	3.4	1.2	20.4
#8	2.4	0.9	6.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	101.84
1/2"	98.87
3/8"	103.85

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	17.69

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

**VENDOR:
J.H. LYNCH**

**VENDOR NO:
5**

**SOURCE:
FIRST ST. QUARRY**

**LOCATION:
CUMBERLAND, RI**

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.862	2.889	2.865		
Specific Gravity (S.S.D.):		2.878	2.900	2.875		
Apparent Specific Gravity:		2.907	2.922	2.893		
Absorption:		0.539	0.387	0.334		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	1.17
1/2" - 3/8"	0.27
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
PJ KEATING

VENDOR NO:
8

SOURCE:
PHENIX AVENUE QUARRY

LOCATION:
CRANSTON, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	90.8	100.0	100.0
1/2"	10.2	91.1	100.0
3/8"	1.5	37.6	96.9
#4	0.8	2.8	44.1
#8	0.7	1.7	11.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	92.18
1/2"	96.64
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	26.97

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
PJ KEATING

VENDOR NO:
8

SOURCE:
PHENIX AVENUE QUARRY

LOCATION:
CRANSTON, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.830	2.835	2.702		
Specific Gravity (S.S.D.):		2.849	2.850	2.714		
Apparent Specific Gravity:		2.886	2.878	2.734		
Absorption:		0.682	0.533	0.430		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.25
1/2" - 3/8"	0.30
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
DRY BRIDGE S and S

VENDOR NO:
13

SOURCE:
SLOCUM PIT

LOCATION:
NORTH KINGSTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	93.5	100.0	100.0
1/2"	38.5	89.0	99.8
3/8"	14.6	43.6	91.0
#4	3.0	4.2	4.9
#8	1.8	1.8	1.0

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	97.38
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	34.01

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
DRY BRIDGE S and S

VENDOR NO:
13

SOURCE:
SLOCUM PIT

LOCATION:
NORTH KINGSTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.605	2.623	2.623		
Specific Gravity (S.S.D.):		2.627	2.646	2.644		
Apparent Specific Gravity:		2.665	2.684	2.678		
Absorption:		0.872	0.862	0.780		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.87
1/2" - 3/8"	2.01
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
PJ KEATING

VENDOR NO:
21

SOURCE:
SOUTH MAIN ST. QUARRY

LOCATION:
ACUSHNET, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	93.8	100.0	100.0
1/2"	15.7	88.2	100.0
3/8"	2.4	18.7	83.1
#4	1.4	1.3	7.7
#8	1.2	1.2	2.2

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	98.87
1/2"	94.41
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	B	21.22

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
PJ KEATING

VENDOR NO:
21

SOURCE:
SOUTH MAIN ST. QUARRY

LOCATION:
ACUSHNET, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.721	2.706	2.741		
Specific Gravity (S.S.D.):		2.742	2.723	2.755		
Apparent Specific Gravity:		2.779	2.752	2.780		
Absorption:		0.762	0.615	0.502		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.28
1/2" - 3/8"	0.24
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
BROX IND. - DRACUT

VENDOR NO:
24

SOURCE:
DRACUT QUARRY

LOCATION:
DRACUT, MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	98.5	100.0	100.0
1/2"	39.1	94.7	100.0
3/8"	9.3	30.0	95.5
#4	1.8	1.1	28.4
#8	1.3	1.0	2.0

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	101.84
1/2"	98.87
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	15.42

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
BROX IND. - DRACUT

VENDOR NO:
24

SOURCE:
DRACUT QUARRY

LOCATION:
DRACUT, MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.895	2.869	2.907		
Specific Gravity (S.S.D.):		2.911	2.881	2.917		
Apparent Specific Gravity:		2.943	2.903	2.938		
Absorption:		0.561	0.411	0.370		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.22
1/2" - 3/8"	0.54
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

**VENDOR:
CHERENZIA**

**VENDOR NO:
29**

**SOURCE:
OLD HOPKINTON RD.**

**LOCATION:
WESTERLY, RI**

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	96.0	100.0	100.0
1/2"	32.7	83.4	100.0
3/8"	11.4	28.1	98.4
#4	3.3	1.9	35.6
#8	2.5	1.2	4.0

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	94.41
1/2"	88.47
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE LA RESULT

Run # 1 b 26.69

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CHERENZIA

VENDOR NO:
29

SOURCE:
OLD HOPKINTON RD.

LOCATION:
WESTERLY, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.598	2.610	2.607		
Specific Gravity (S.S.D.):		2.621	2.627	2.627		
Apparent Specific Gravity:		2.659	2.656	2.660		
Absorption:		0.878	0.664	0.760		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	2.41
1/2" - 3/8"	3.20
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
SOUTH COUNTY S and G

VENDOR NO:
31

SOURCE:
CHARLESTOWN PIT

LOCATION:
CHARLESTOWN, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	99.8	100.0	100.0
3/4"	76.9	99.8	100.0
1/2"	18.5	74.0	100.0
3/8"	11.0	18.9	96.0
#4	9.4	2.8	21.9
#8	4.5	1.8	3.0

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	91.44
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

	LA TYPE	LA RESULT
Run # 1	b	48.65

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
SOUTH COUNTY S and G

VENDOR NO:
31

SOURCE:
CHARLESTOWN PIT

LOCATION:
CHARLESTOWN, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.579	2.592	2.596		
Specific Gravity (S.S.D.):		2.602	2.612	2.614		
Apparent Specific Gravity:		2.639	2.645	2.644		
Absorption:		0.885	0.778	0.700		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.22
1/2" - 3/8"	0.30
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
G. LOPES

VENDOR NO:
49

SOURCE:
BELL ROCK RD. PIT

LOCATION:
FALL RIVER, MA.

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	81.0	100.0	100.0
1/2"	25.1	89.7	93.6
3/8"	8.1	53.7	74.4
#4	2.3	5.4	19.1
#8	1.5	1.2	2.5

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	95.90
1/2"	95.90
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	27.56

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
G. LOPES

VENDOR NO:
49

SOURCE:
BELL ROCK RD. PIT

LOCATION:
FALL RIVER, MA.

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.649	2.654	2.665		
Specific Gravity (S.S.D.):		2.672	2.675	2.684		
Apparent Specific Gravity:		2.710	2.712	2.716		
Absorption:		0.853	0.807	0.707		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.15
1/2" - 3/8"	1.23
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
MATERIALS SAND and STONE

VENDOR NO:
50

SOURCE:
POUND HILL ROAD QUARRY

LOCATION:
N. SMITHFIELD

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	3/8
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	73.6	100.0
1/2"	9.6	100.0
3/8"	2.3	96.2
#4	1.0	8.3
#8	0.8	1.7

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	89.96
1/2"	
3/8"	89.04

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

Run #	LA TYPE	LA RESULT
Run # 1	B	30.20

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
MATERIALS SAND and STONE

VENDOR NO:
50

SOURCE:
POUND HILL ROAD QUARRY

LOCATION:
N. SMITHFIELD

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.612		2.637		
Specific Gravity (S.S.D.):		2.636		2.651		
Apparent Specific Gravity:		2.677		2.674		
Absorption:		0.941		0.517		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.36
1/2" - 3/8"	0.12
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CHERENZIA-WHITE ROCK

VENDOR NO:
58

SOURCE:
WHITE ROCK QUARRY

LOCATION:
WESTERLY, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	90.6	100.0
1/2"	15.6	75.9
3/8"	9.1	30.5
#4	5.6	7.4
#8	4.2	5.1

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	95.90
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	37.38

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CHERENZIA-WHITE ROCK

VENDOR NO:
58

SOURCE:
WHITE ROCK QUARRY

LOCATION:
WESTERLY, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:			2.607	2.605		
Specific Gravity (S.S.D.):			2.625	2.623		
Apparent Specific Gravity:			2.654	2.651		
Absorption:			0.676	0.663		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	1.21
1/2" - 3/8"	3.18
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

**VENDOR:
DYER**

**VENDOR NO:
61**

**SOURCE:
DYER QUARRY**

**LOCATION:
BIRDSBORO, PA**

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	92.9
1/2"	44.8
3/8"	19.1
#4	2.4
#8	1.4

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	103.33
1/2"	
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1 b	14.69

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

**VENDOR:
DYER**

**VENDOR NO:
61**

**SOURCE:
DYER QUARRY**

**LOCATION:
BIRDSBORO, PA**

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.896		
Specific Gravity (S.S.D.):				2.912		
Apparent Specific Gravity:				2.945		
Absorption:				0.572		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	1.87
1/2" - 3/8"	2.04
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CARDI CORP.

VENDOR NO:
66

SOURCE:
Hopkins Hill Road

LOCATION:
Coventry, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	99.2	100.0	100.0
1/2"	38.8	91.3	99.9
3/8"	13.0	32.5	90.2
#4	3.9	3.3	29.3
#8	2.9	2.0	9.7

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	95.90
1/2"	91.44
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	b
	42.44

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CARDI CORP.

VENDOR NO:
66

SOURCE:
Hopkins Hill Road

LOCATION:
Coventry, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.602	2.606	2.609			
Specific Gravity (S.S.D.):	2.617	2.620	2.621			
Apparent Specific Gravity:	2.642	2.643	2.641			
Absorption:	0.588	0.542	0.459			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.03
1/2" - 3/8"	1.44
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CUMBERLAND QUARRY .

VENDOR NO:
68

SOURCE:
MANVILLE HILL ROAD

LOCATION:
CUMBERLAND, RI

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	1/2	3/8
2"	100.0	100.0	100.0
1 1/2"	100.0	100.0	100.0
1"	100.0	100.0	100.0
3/4"	98.5	100.0	100.0
1/2"	47.4	94.3	100.0
3/8"	14.4	24.5	95.9
#4	2.2	1.4	28.4
#8	1.7	1.0	5.3

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	98.87
1/2"	94.41
3/8"	98.91

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	B
	20.67

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
CUMBERLAND QUARRY .

VENDOR NO:
68

SOURCE:
MANVILLE HILL ROAD

LOCATION:
CUMBERLAND, RI

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:	2.720	2.754	2.785			
Specific Gravity (S.S.D.):	2.740	2.766	2.796			
Apparent Specific Gravity:	2.774	2.789	2.816			
Absorption:	0.705	0.459	0.391			

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.16
1/2" - 3/8"	0.33
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLYMOUTH, MA

LOCATION:

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	3/8
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	99.6	100.0
1/2"	81.3	100.0
3/8"	45.7	98.2
#4	5.2	16.9
#8	2.3	3.4

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	97.38
1/2"	
3/8"	93.98

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE	LA RESULT
Run # 1	23.69

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
T.L. EDWARDS

VENDOR NO:
71

SOURCE:
PLYMOUTH, MA

LOCATION:

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.619		2.630		
Specific Gravity (S.S.D.):		2.651		2.656		
Apparent Specific Gravity:		2.705		2.699		
Absorption:		1.220		0.977		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.24
1/2" - 3/8"	0.48
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
BIRDSBORO MATERIALS

VENDOR NO:
73

SOURCE:
BIRDSBORO PA

LOCATION:

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4
2"	100.0
1 1/2"	100.0
1"	100.0
3/4"	99.8
1/2"	69.6
3/8"	33.9
#4	2.4
#8	1.7

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"	
1"	
3/4"	109.27
1/2"	
3/8"	

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE LA RESULT

Run # 1	b	16.34
----------------	---	-------

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
BIRDSBORO MATERIALS

VENDOR NO:
73

SOURCE:
BIRDSBORO PA

LOCATION:

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:				2.978		
Specific Gravity (S.S.D.):				2.991		
Apparent Specific Gravity:				3.016		
Absorption:				0.418		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	0.14
1/2" - 3/8"	0.19
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
P.A. LANDERS

VENDOR NO:
77

SOURCE:
HANOVER PIT

LOCATION:
HANOVER MA

**Sieve Analysis of Fine and
Coarse Aggregate AASHTO T-27**

Nominal Aggregate Size

% Passing	3/4	3/8
2"	100.0	100.0
1 1/2"	100.0	100.0
1"	100.0	100.0
3/4"	92.9	100.0
1/2"	21.2	97.2
3/8"	3.7	70.6
#4	0.4	10.3
#8	0.3	1.9

**Unit Weight and Void
in Aggregate AASHTO T-19**

**UNIT WEIGHT
(lbs./cu. ft.)**

1 1/2"
1"
3/4"
1/2"
3/8"

**Resistance to Abrasion of Small
Size Coarse Aggregate by use of
the Los Angeles Machine AASHTO T-96**

LA TYPE LA RESULT

Run # 1 B

**RHODE ISLAND DEPARTMENT OF TRANSPORTATION
MATERIALS AND QUALITY ASSURANCE
COARSE AGGREGATE ANALYSIS RESULTS - 2013**

VENDOR:
P.A. LANDERS

VENDOR NO:
77

SOURCE:
HANOVER PIT

LOCATION:
HANOVER MA

**Specific Gravity and Absorption
of Coarse Aggregate AASHTO T-85**

AGGREGATE SIZE:	# 4	3/8"	1/2"	3/4"	1"	1 1/2"
Bulk Specific Gravity:		2.617		2.811		
Specific Gravity (S.S.D.):		2.643		2.829		
Apparent Specific Gravity:		2.686		2.862		
Absorption:		0.991		0.630		

**Soundness of Aggregate by Use
of Sodium Sulfate AASHTO T-104**

SIEVE SIZE:	% LOSS
2" - 1 1/2"	
1 1/2" - 1"	
1" - 3/4"	
3/4" - 1/2"	
1/2" - 3/8"	
3/8" - # 4	
# 4 - # 8	

**Amount of Material Finer
than # 200 Sieve in
Aggregate AASHTO T-11**

Aggregate Bin Size	% Passing # 200 sieve
1 1/2"	
1"	
3/4"	
1/2"	
3/8"	
# 4	