

DELTA SAND AND GRAVEL, INC.

P.O. BOX 395 · SUNDERLAND, MA. 01375 · 413-665-4051 · FAX 413-665-8323

Summary of Septic System Fill Material

Delta Sand and Gravel, Inc. follows ASTM specifications for sampling and testing of aggregates. Products are tested at our in-house lab on a regular basis during production to ensure products are produced to specifications. Annually, independent testing is performed by an independent test lab.

Concrete Sand (562 Amherst Rd Pit)

- Concrete Sand is produced to meet ASTM C33, Fine Aggregate for Concrete
- ASTM C33 meets Title 5 Fill Material for Septic Systems
- Presby Septic System specifications require ASTM C33

Title 5 Sand (East Plum Tree Pit)

- Title 5 Sand at the East Plum Tree Pit is screened and tested to meet Title 5 Fill Material specification.
- Title 5 Sand at the East Plum Tree Pit is only available during summer months when the pit is open.

Title 5 Sand (562 Amherst Rd)

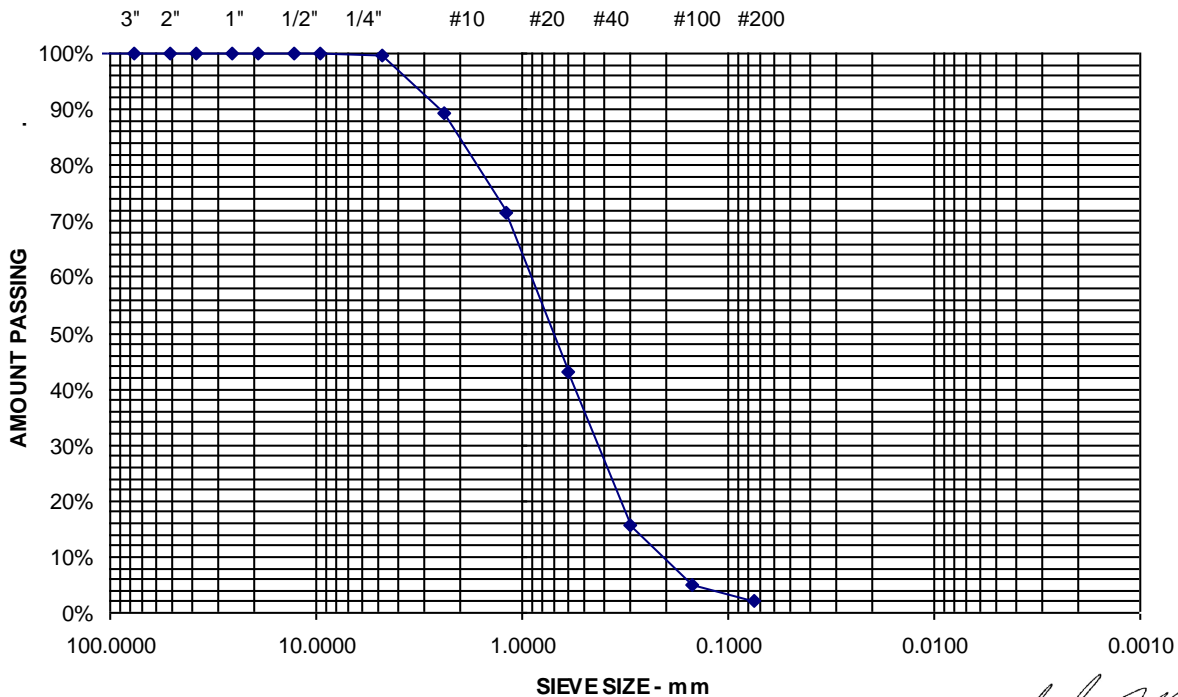
- Title 5 Sand at the Main Pit is screened and tested to meet Title 5 Fill Material specification.
- Title 5 Sand at the Main Pit is available in off-season months when the East Plum Tree Pit is closed.

Test results are attached.

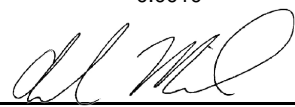
Project Name SUNDERLAND MA - 2022 AGGREGATE SOURCE TESTING
 Client DELTA SAND AND GRAVEL, INC.
 Material Type CONCRETE SAND
 Material Source DELTA SAND & GRAVEL

Project Number 21-1855
 Lab ID 6244M
 Date Received 3/7/2022
 Date Completed 3/11/2022
 Tested By DANIEL JACK

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>ADJUSTED FOR %</u> <u>PASSING NO. 4 SIEVE</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	100	
19.0 mm	3/4"	100	
12.5 mm	1/2"	100	
9.5 mm	3/8"	100	
4.75 mm	No. 4	100	100
2.36 mm	No. 8	89	89
1.18 mm	No. 16	72	72
600 μm	No. 30	43	43
300 μm	No. 50	16	16
150 μm	No. 100	5	5
75 μm	No. 200	2.1	2.1



Comments





Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name: 2022 Aggregate Source Testing
Project Location: Londonderry, NH
Client: Delta Sand and Gravel
Material Description: Concrete Sand
Material Source: Delta Sand & Gravel

Project Number: 21-1855
Lab ID: 6244M
Date Received: 03/07/22
Date Completed: 03/20/22
Tested By: D. Jack

Color Indicator Plate Number **1**

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

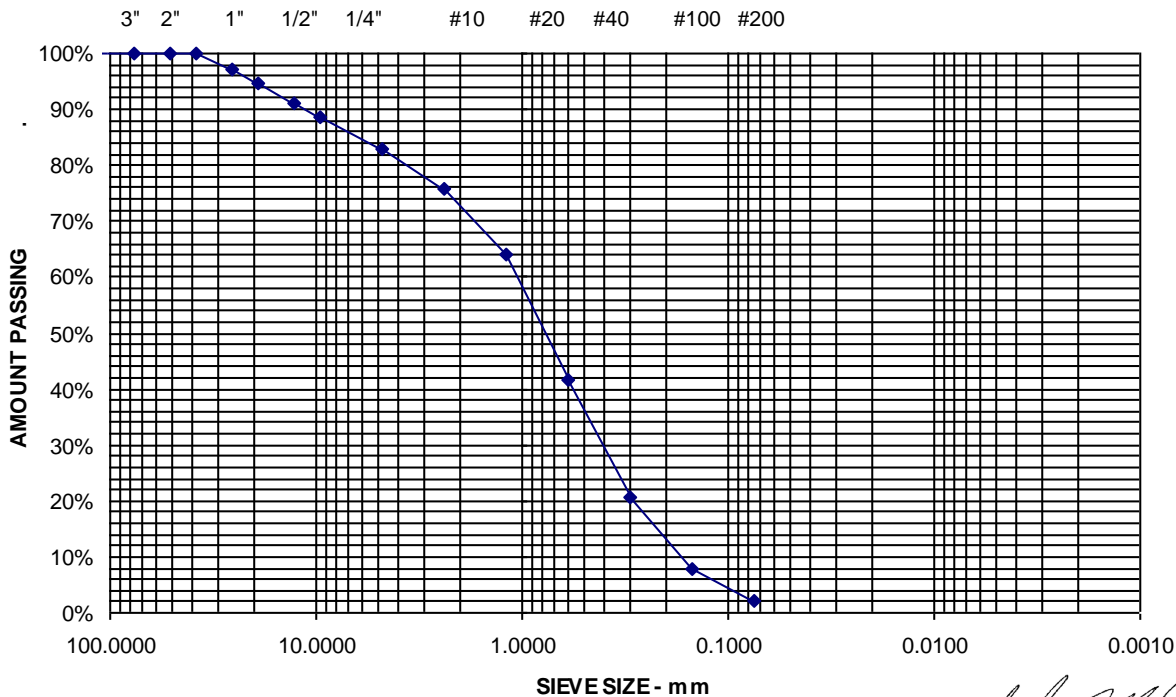
Comments:

Reviewed By:

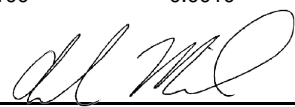
Project Name SUNDERLAND MA - 2022 AGGREGATE SOURCE TESTING
 Client DELTA SAND AND GRAVEL, INC.
 Material Type TITLE 5 SAND
 Material Source DELTA SAND & GRAVEL - EPT

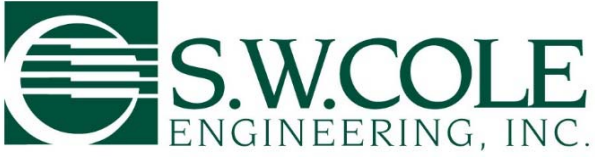
Project Number 21-1855
 Lab ID 6251M
 Date Received 3/7/2022
 Date Completed 3/14/2022
 Tested By DANIEL JACK

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>ADJUSTED FOR AMOUNT</u> <u>PASSING NO. 4 SIEVE</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	100	
25.0 mm	1"	97	
19.0 mm	3/4"	95	
12.5 mm	1/2"	91	
9.5 mm	3/8"	89	
4.75 mm	No. 4	83	100
2.36 mm	No. 8	76	85
1.18 mm	No. 16	64	72
600 μm	No. 30	42	47
300 μm	No. 50	21	27
150 μm	No. 100	8	9
75 μm	No. 200	2.1	2.4



Comments





Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name: 2022 Aggregate Source Testing
Project Location: Londonderry, NH
Client: Delta Sand and Gravel
Material Description: Title 5 Sand
Material Source: Delta Sand & Gravel - EPT

Project Number: 21-1855
Lab ID: 6251M
Date Received: 03/07/22
Date Completed: 03/20/22
Tested By: D. Jack

Color Indicator Plate Number **1**

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

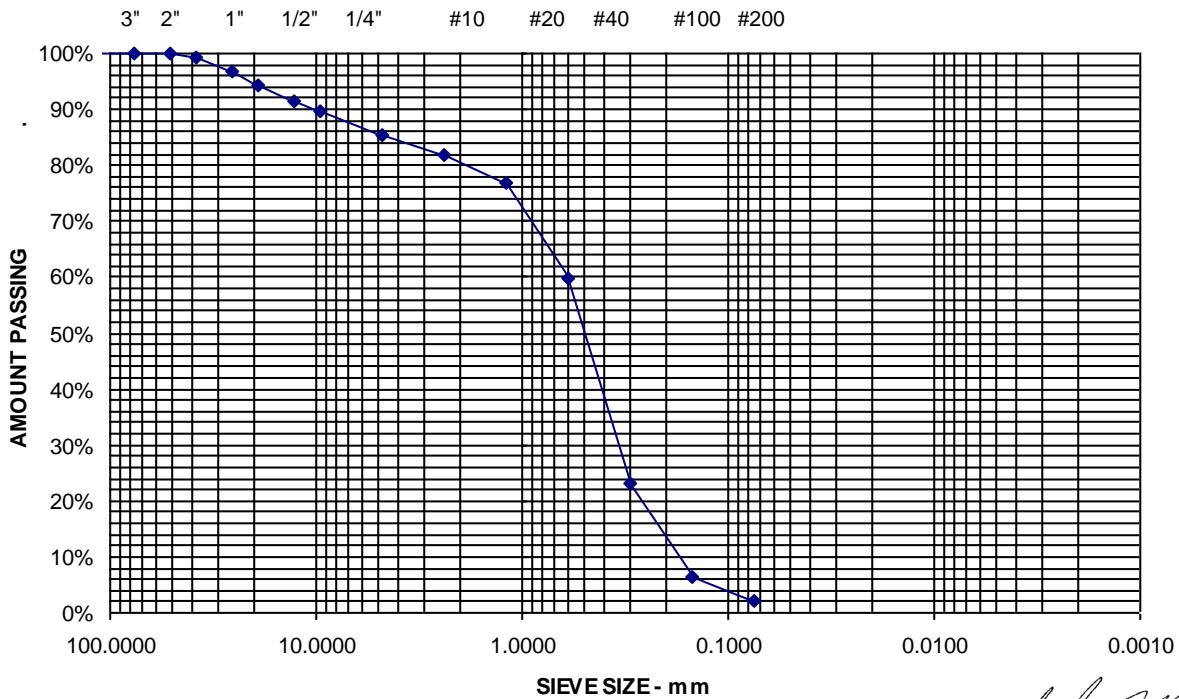
Comments:

Reviewed By:

Project Name SUNDERLAND MA - 2022 AGGREGATE SOURCE TESTING
 Client DELTA SAND AND GRAVEL, INC - GPO.
 Material Type TITLE 5 SAND
 Material Source DELTA SAND & GRAVEL

Project Number 21-1855
 Lab ID 6245M
 Date Received 3/7/2022
 Date Completed 3/14/2022
 Tested By DANIEL JACK

<u>STANDARD</u> <u>DESIGNATION (mm/μm)</u>	<u>SIEVE SIZE</u>	<u>AMOUNT PASSING (%)</u>	<u>ADJUSTED FOR %</u> <u>PASSING NO. 4 SIEVE</u>
150 mm	6"	100	
100 mm	4"	100	
75 mm	3"	100	
50 mm	2"	100	
38.1 mm	1-1/2"	99	
25.0 mm	1"	97	
19.0 mm	3/4"	94	
12.5 mm	1/2"	92	
9.5 mm	3/8"	90	
4.75 mm	No. 4	85	100
2.36 mm	No. 8	82	96
1.18 mm	No. 16	77	91
600 μm	No. 30	60	71
300 μm	No. 50	23	27
150 μm	No. 100	7	8
75 μm	No. 200	2.2	2.6



Comments





Report of Organic Impurities of Fine Aggregate

ASTM C40 - 11, AASHTO T 21

Project Name: 2022 Aggregate Source Testing
Project Location: Londonderry, NH
Client: Delta Sand and Gravel
Material Description: Title 5 Sand
Material Source: Delta Sand & Gravel

Project Number: 21-1855
Lab ID: 6245M
Date Received: 03/07/22
Date Completed: 03/20/22
Tested By: D. Jack

Color Indicator Plate Number 1

Organic Impurities Color Indicator Plate

- 1 (lighter)
- 2
- 3 (standard)
- 4
- 5 (darker)

When a sample subjected to this procedure produces a color darker than the standard color (plate No. 3), the fine aggregate under test shall be considered to possibly contain injurious organic impurities. Further testing may be required to approve the aggregate for use in concrete.

Comments:

Reviewed By: