

# Particle Report

Sample Name: NU-LHT-1M 101 300um fraction > 100 pixels

SOP Name: NASA2.5x

Edited: True

User Name: apps

Edited On: 12 July 2007 11:59:21

Date: 11 July 2007 17:49:52

SOP Analysis: 3.0

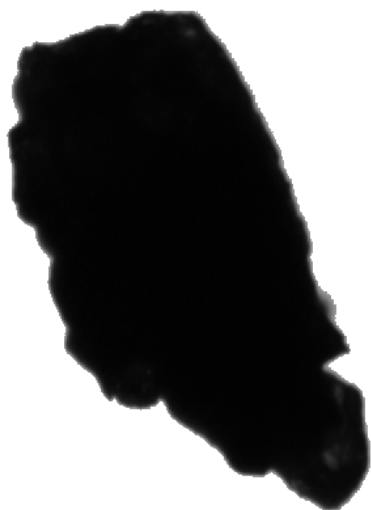
SOP Fill Holes: True

SOP Segmentation: None

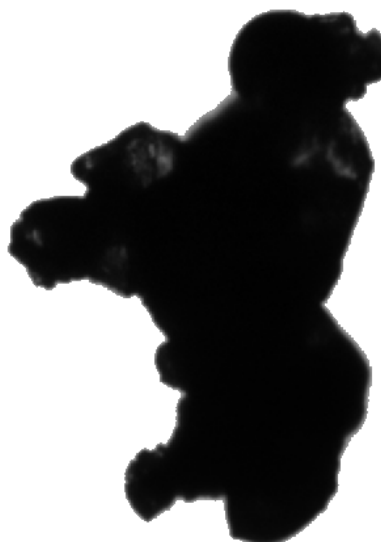
SOP Trash Size: 10

SOP Optic(s) used: 2.5x

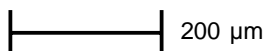
Classification: 400 - 500um, Sorted by CE Diameter ( $\mu\text{m}$ ), Descending



499.94



499.56



Scale 1:100

Comments: Greater than 300um fraction manually dispersed

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SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

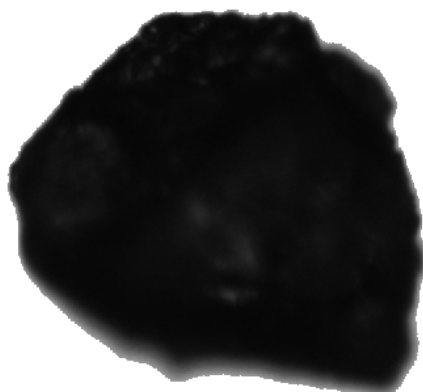
Classification: 500 - 600um, Sorted by HS Circularity, Descending



0.849



0.847



0.842

200 µm

Scale 1:100

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SOP Analysis: 3.0

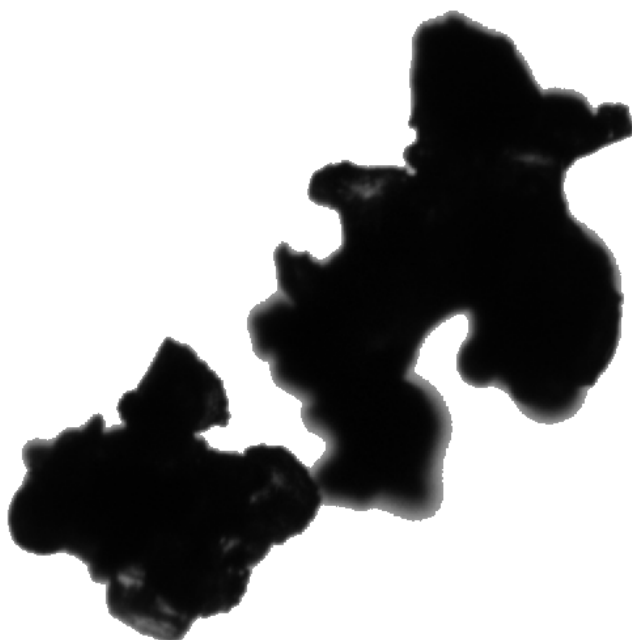
SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

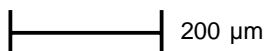
Classification: 500 - 600um, Sorted by HS Circularity, Ascending



0.222



0.234



Scale 1:100

Comments: Greater than 300um fraction manually dispersed

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SOP Analysis: 3.0

SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

Classification: 500 - 600um, Sorted by Elongation, Descending



0.655

200  $\mu$ m

Scale 1:100

Comments: Greater than 300um fraction manually dispersed

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SOP Analysis: 3.0

SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

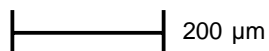
Classification: 400 - 500um, Sorted by Elongation, Descending



0.672



0.663



Scale 1:100

Comments: Greater than 300um fraction manually dispersed

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Date: 11 July 2007 17:49:52

SOP Analysis: 3.0

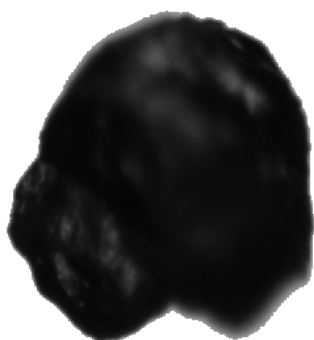
SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

Classification: 400 - 500um, Sorted by HS Circularity, Descending



0.863



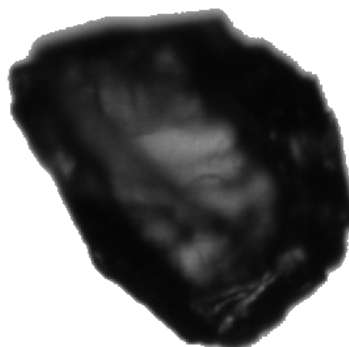
0.860



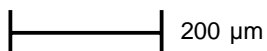
0.854



0.845



0.843



200  $\mu$ m

Scale 1:100

Comments: Greater than 300um fraction manually dispersed

# Solidity Report - Number Distribution

**Sample Name:** NU-LHT-1M 101 300um fraction > 100 pixels

**SOP Name:** NASA2.5x

**Edited:** True

**User Name:** apps

**Edited On:** 12 July 2007 11:59:21

**Date:** 11 July 2007 17:49:52

**SOP Analysis:** 3.0

**SOP Fill Holes:** True

**SOP Segmentation:** None

**SOP Trash Size:** 10

**SOP Optic(s) used:** 2.5x

**Solidity Minimum:** 0.457

**Solidity D[n, 0.1]:** 0.760

**Solidity Maximum:** 1.000

**Solidity D[n, 0.5]:** 0.931

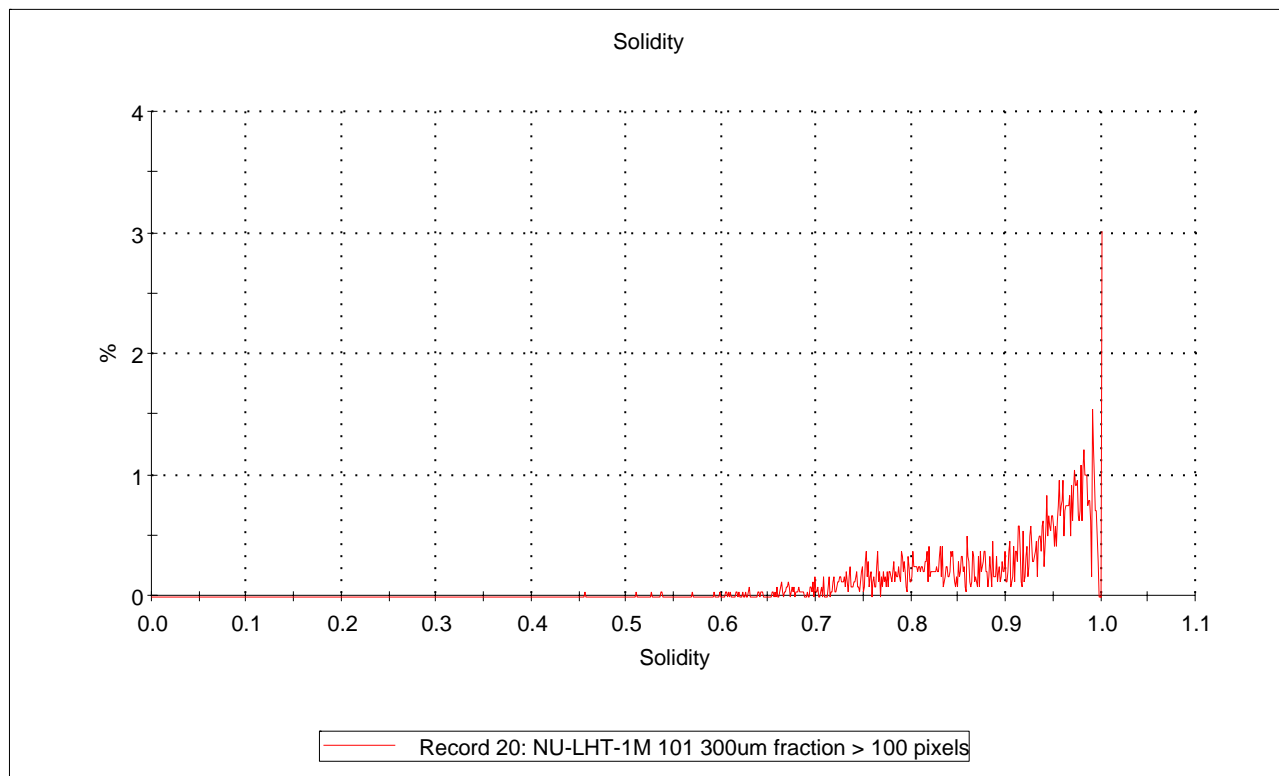
**Solidity Mean:** 0.897

**Solidity D[n, 0.9]:** 0.988

**Particles Counted:** 2390

**Solidity STDV:** 0.091

**Solidity RSD (%):** 10.18



**Comments:** Greater than 300um fraction manually dispersed

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User Name: apps

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Date: 11 July 2007 17:49:52

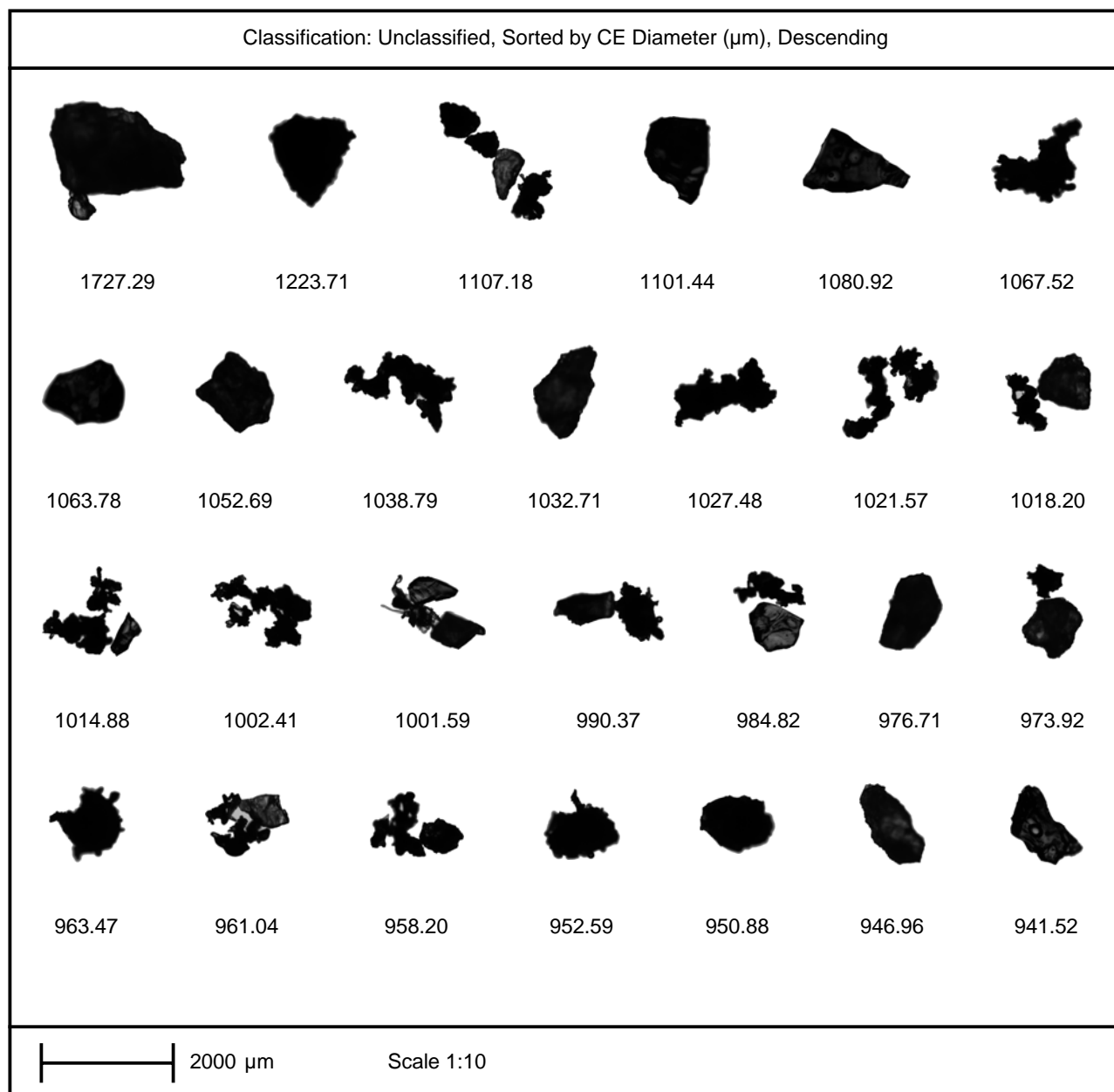
SOP Analysis: 3.0

SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x



Comments: Greater than 300um fraction manually dispersed



# Particle Report

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Edited: True

User Name: apps

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Date: 11 July 2007 17:49:52






SOP Analysis: 3.0


SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x

Classification: Unclassified, Sorted by Intensity SD, Descending							
		.	.	.	.	.	.
52.073	48.953	46.782	46.492	46.241	46.017	45.710	45.380
.	.	.	.	.	.	.	.
45.303	44.980	44.879	44.684	44.616	44.607	44.363	44.288
.	.		.	.	.	.	.
43.929	43.868	43.852	43.829	43.815	43.804	43.727	
.		.	.	.	.	.	.
43.683	43.679	43.638	43.574	43.444	43.082	43.029	42.995
	.	.	.	.	.	.	.
42.908	42.852	42.822	42.812	42.772	42.745	42.582	42.542

 2000  $\mu$ m      Scale 1:10

Comments: Greater than 300um fraction manually dispersed

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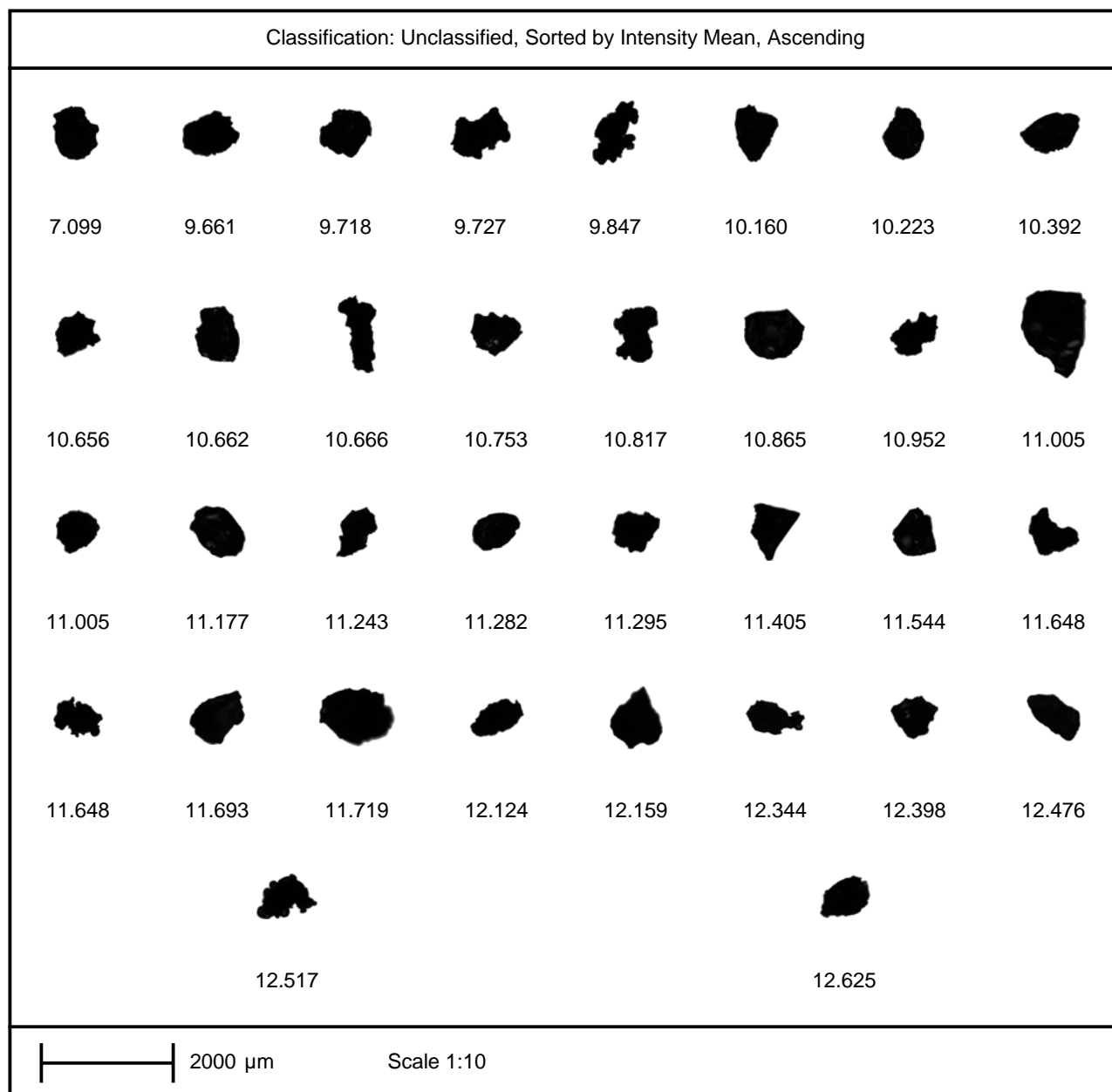
SOP Analysis: 3.0

SOP Fill Holes: True

SOP Segmentation: None

SOP Trash Size: 10

SOP Optic(s) used: 2.5x



Comments: Greater than 300um fraction manually dispersed

# HS Circularity Report - Number Distribution

**Sample Name:** NU-LHT-1M 101 300um fraction > 100 pixels

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**SOP Analysis:** 3.0

**SOP Fill Holes:** True

**SOP Segmentation:** None

**SOP Trash Size:** 10

**SOP Optic(s) used:** 2.5x

**HS Circularity Minimum:** 0.108

**HS Circularity D[n, 0.1]:** 0.345

**HS Circularity Maximum:** 0.973

**HS Circularity D[n, 0.5]:** 0.666

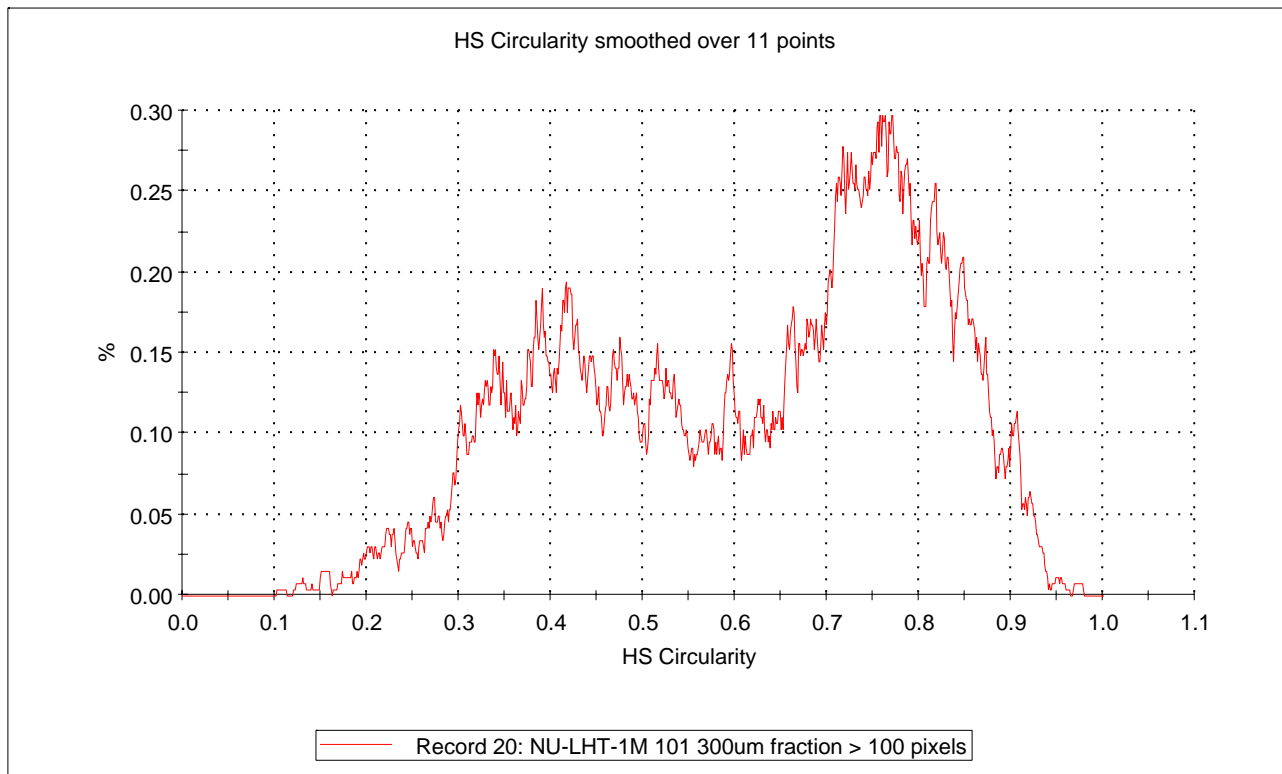
**HS Circularity Mean:** 0.618

**HS Circularity D[n, 0.9]:** 0.844

**Particles Counted:** 2390

**HS Circularity STDV:** 0.191

**HS Circularity RSD (%):** 30.819



**Comments:** Greater than 300um fraction manually dispersed

# Elongation Report - Number Distribution

**Sample Name:** NU-LHT-1M 101 300um fraction > 100 pixels

**SOP Name:** NASA2.5x

**Edited:** True

**User Name:** apps

**Edited On:** 12 July 2007 11:59:21

**Date:** 11 July 2007 17:49:52

**SOP Analysis:** 3.0

**SOP Fill Holes:** True

**SOP Segmentation:** None

**SOP Trash Size:** 10

**SOP Optic(s) used:** 2.5x

**Elongation Minimum:** 0.001

**Elongation D[n, 0.1]:** 0.106

**Elongation Maximum:** 0.877

**Elongation D[n, 0.5]:** 0.285

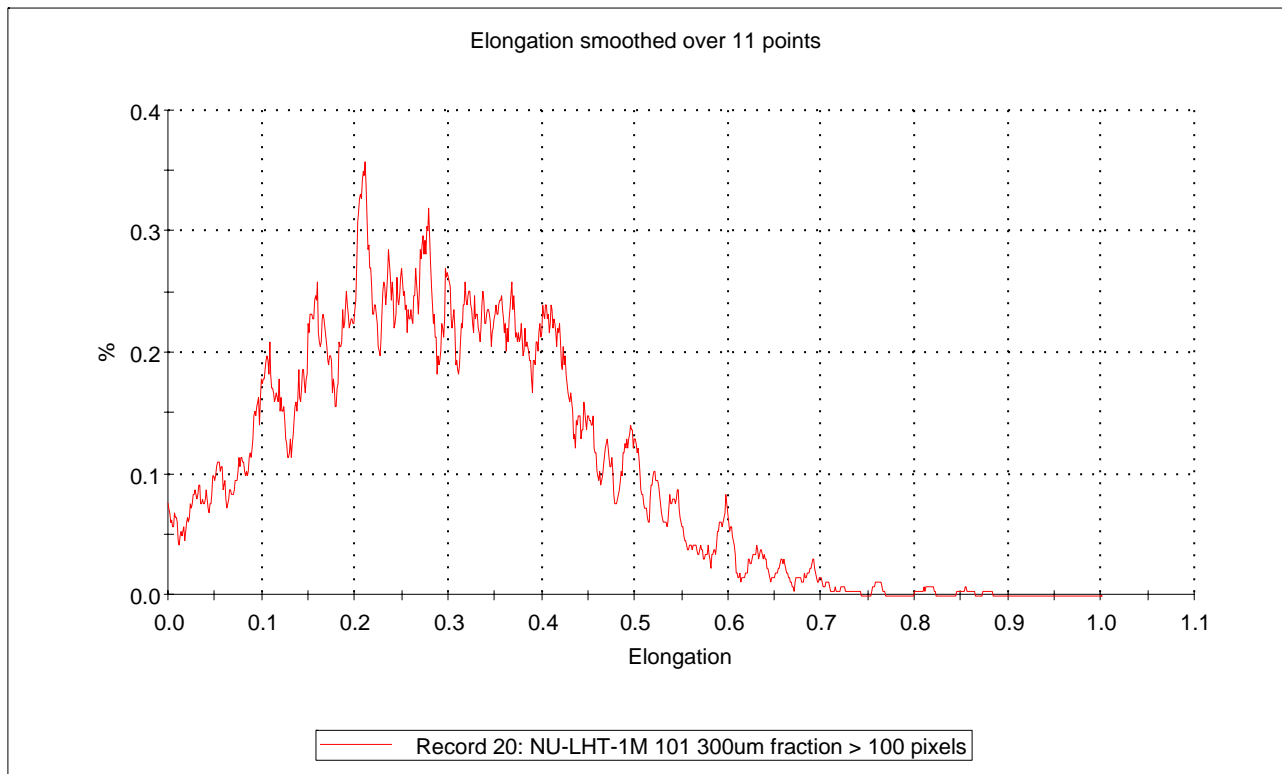
**Elongation Mean:** 0.296

**Elongation D[n, 0.9]:** 0.495

**Particles Counted:** 2390

**Elongation STDV:** 0.149

**Elongation RSD (%):** 50.41



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SOP Analysis: 3.0

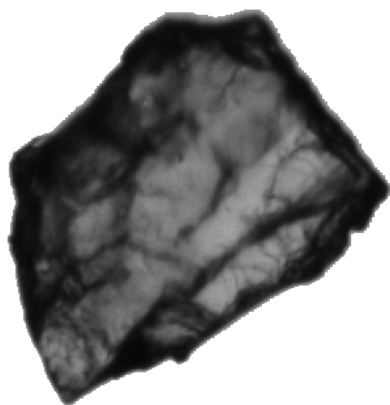
SOP Fill Holes: True

SOP Segmentation: None

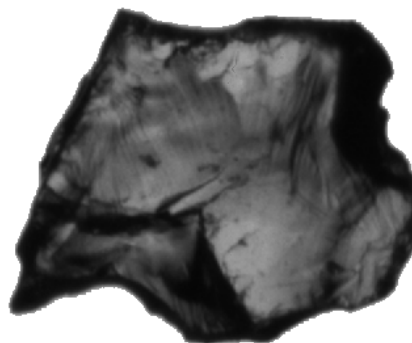
SOP Trash Size: 10

SOP Optic(s) used: 2.5x

Classification: 400 - 500um, Sorted by Intensity Mean, Descending



69.781



68.056

200  $\mu$ m

Scale 1:100

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SOP Segmentation: None

SOP Trash Size: 10

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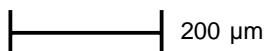
Classification: 400 - 500um, Sorted by Intensity Mean, Ascending



9.578



10.365



Scale 1:100

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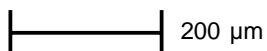
Classification: 400 - 500um, Sorted by HS Circularity, Ascending



0.229



0.241



Scale 1:100

Comments: Greater than 300um fraction manually dispersed