

# **MAYDENA SANDS PTY LTD**

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ABN 65 111 938 428

**EXPLORATION LICENCE NO. 17/2002**

**MAYDENA, TASMANIA**

**ANNUAL REPORT**

**TO**

**10 January 2008**

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**NOVEMBER 2007**

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## ABSTRACT

Laboratory beneficiation of a small bulk sample from the southern extremity of the Hedgehog Ridge prospect yielded a fine grained silica flour product with encouragingly low iron (<10ppm Fe<sub>2</sub>O<sub>3</sub>), phosphorus (10ppm P<sub>2</sub>O<sub>5</sub>) and alumina (280ppm Al<sub>2</sub>O<sub>3</sub>).

However, TiO<sub>2</sub> at 120ppm is of some concern and, as with similar samples from other parts of the prospect, calcium and magnesium levels remain undesirably high, the causes of which are subject to a petrological investigation.

There is sufficient technical merit to continue with investigations at this prospect.

### Keywords:

EL17/2002, Hedgehog Ridge Prospect  
Silica flour, Bulk Samples, Analyses

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## 1. INTRODUCTION

This report details activities by Maydena Sands Pty Ltd in EL.17/2002 in the fifth year of tenure to 10.01.2007.

Interest in the ground covered by this exploration licence arose as a result of J J McDonald & Sons Mining Pty Ltd activities at the Pine Hill silica sand deposit located within RL 2/2003 some 5 km to the south east.

In early 2005, this tenement was transferred into a new entity, Maydena Sands Pty. Ltd., which continues to focus under the same management on the exploration, assessment and development of the silica sand, silica flour and hard rock silica resources delineated within it.

Regional mapping by MRT geologists indicates that the geological formations potentially prospective for additional resources of silica sand and flour extend into this area in a north westerly direction from the Pine Hill deposit.

An added attraction is the availability of basic access to the main zone of interest.

## 2. TENURE

On the 30<sup>th</sup> of April 2002 an application was lodged by J J McDonald & Sons Mining Pty Ltd for an exploration licence of 13 sq km covering ground potentially prospective for silica sand/flour and silica rock associated with lower Cambrian sequences 7-10 km WSW of Maydena.

The area originally applied for was contiguous to the east with RL 2/2003 (formerly part of EL 17/1998) where a limited resource of potentially economic, good quality silica flour and silica sands has been delineated.

Ministerial consent to the grant of this exploration licence was obtained on 28/01/03 effective for 5 years to 10<sup>th</sup> January 2008.

In November 2004, application for a reduction of the original 13 sq km tenement area by 9 sq km to an interim size of 4 sq.km surrounding the Hedgehog Ridge silica sand and flour prospect (viz. Fig 2) was approved by the Director of Mines on 26.05.2005. Exploration

activities and outcomes during tenure of the larger area are summarized in a Partial Relinquishment Report by Krummei (2004) (a).

On the same date, title to the reduced Exploration Licence area was transferred to Maydena Sands Proprietary Limited, a Company formed to hold and operate the exploration and mining interests of the Directors and Shareholders of J J McDonald & Sons Mining Pty Ltd in the Maydena district.

A reduction of the Exploration Licence area to the current size of 2 sq.km was approved on 27/04/07.

The reduced tenement now comprises:

State Forest – Multiple use forest land  
MDC Informal Reserve Area

### **3. LOCATION AND INFRASTRUCTURE**

Reduced EL 17/2002 lies to the west of Pine Hill with its eastern boundary approximately 7 km west of Maydena and about 95 km by sealed road west of Hobart (Fig.1).

The sealed Gordon River Road traverses the tenement diagonally from south east to north west providing excellent basic access to the area. However, thick vegetation, topography and drainage impede access within the immediate area of interest north of the Gordon River Road.

Other basic facilities, including housing and a small labour pool, are available in the small township of Maydena (pop. ca. 400) and surrounding district.

A single strand power line follows the Gordon River Road through the tenement.

A 700 m long, east-west oriented, fair weather gravel airstrip is located about 1 km eastwards off the eastern boundary of the tenement.

A narrow gauge railway line from New Norfolk to Maydena has been progressively upgraded as far as the entrance to the Mt Field National Park. There are plans to complete the remaining 15 km section to Maydena in due course.

#### 4. OBJECTIVES AND TARGETS

The overall objective of the exploration activities during tenure of this exploration licence is to add commercially viable resources of high purity silica sand and flour to those already outlined by J J McDonald & Sons Mining Pty Ltd (now vested in Maydena Sands Pty Ltd) at the Eastern Quarry, Pine Hill, in RL 2/2003, 5 km to the East. High quality silica rock remains a subsidiary target.

Following general reconnaissance, the main target remained the western end of a 4x1 km belt of steeply dipping, lower Cambrian sediments with carbonate sequences, which extend in a north westerly direction from Pine Hill.

#### 5. PREVIOUS EXPLORATION

Although the area was part of BHP's EL 13/65 and EL 8/79 and later also fell within Amoco's EL 14/84, neither company undertook any work related to industrial minerals in this segment of their tenements (Ellis, in Jones, 1989).

Pioneer Silicon Industries Pty. Ltd. (PSI) embraced the area within its EL 14/88 but little, if any, work was carried out in this segment west of Pine Hill.

On taking over PSI's tenement in 1992, the Northwest Bay Co Pty Ltd successfully outlined a small resource of about 355,000 tonnes of good quality, open cuttable dolomite on the southern slopes of Kallista Hill situated approximately 2 km west of Pine Hill (Forster, 1993). Due to the demise of the operator, no production ensued and the ground was ultimately relinquished.

In the early 1990s, Mineral Resources Tasmania (MRT) completed three shallow diamond drill holes as part of its reconnaissance of the Tertiary/Quaternary sequences of the surrounding area (for locations see Calver and Forsyth, 1999):

Hole Styx 2	:	0 - 31m	:	Quaternary sediments
Hole Styx 3	:	0 – 32	:	Quaternary sediments
		32 – 35	:	Cambrian sandstone
Hole Styx 6	:	0 – 21	:	Quaternary sediments
		21- 22	:	Ordovician

1:25,000 scale mapping of the Maydena Sheet was completed by MRT geologists Calver & Forsyth in 1999, providing a basic, up-to-date geological framework for this district.

In 2003, during its first year of tenure, JJ McDonald & Sons Mining Pty Ltd focused its activities on both the dolomite and silica rock/flour prospectivity of the larger tenement area. Reconnaissance identified the Loading Spur silica rock/gravel prospect and the Hedgehog Ridge silica flour prospect for further follow-up. A market study and departure of a potential client did not encourage further pursuit of a viable dolomite resource at this time.

Attention during the second year of tenure was concentrated on the two silica prospects outlined. Only a low tonnage potential for silica rock/gravel was indicated at the Loading Bay Spur Prospect and deemed of no further immediate interest. In contrast, encouraging low levels of impurities, especially iron, were indicated by assays of several surface samples of silica flour and gravel at the Hedgehog Ridge Prospect.

The third year's activities were focused on the Hedgehog Ridge Prospect. They comprised line cutting and gridding to provide access for further assessment of the silica flour occurrences there, followed by grid mapping and limited surface sampling.

The fourth year's activities concentrated on the northern part of the deposit and were aimed at a preliminary assessment of the quality and yield of the material to hand.

This year's main activities encompassed beneficiation test work on a small bulk sample from the southern part of the deposit. Field work was curtailed pending clarification and resolution of land access activities.

## **6. CURRENT ACTIVITIES**

### **6.1 Work done:**

#### **Hedgehog Ridge Prospect**

- Discussions with Forestry Practices Board & MRT re land use classification in EL area.

- Collection of a small bulk sample of approximately 5 kg from the southern part of the deposit for laboratory bench-scale beneficiation tests.
- Size distribution analyses on the bulk sample collected.
- Analyses of individual size fractions.
- Separation of the +38-250 micron fraction of the bulk sample.
- Bench top laboratory beneficiation and magnetic cleanup of the +38-250 micron fraction of the bulk sample.
- Analyses of head samples and beneficiated sample generated.
- Particle size grading determinations, by Mastersizer 2000, of the final silica flour product generated.
- Application for E.L. extension

## 6.2 Statistical Summary:

No. of small bulk samples collected	:	1
Weight	:	5 kg approx.
No. of sizing determinations	:	9
No. of size fractions analysed	:	12
No. of determinations	:	120
No. of small bulk samples processed	:	1
No. of process route samples generated	:	1
No. of process samples analysed	:	1
No. of determinations	:	11
No. of processed samples sized	:	1
No. of samples for petrology	:	4
Expenditure for 9 months to 30.09.07	:	\$ 5,285.00
Cumulative Expenditure to 30.09.07	:	\$45,646.00
Estimated expenditure for 12 months to 10.01.08	:	\$ 7,000.00

Note: This year's under-expenditure is due to curtailment of activities pending clarification and resolution of land access issues impinging on exploration and eventual extraction activities.

## 7. RESULTS

### 7.1 Hedgehog Ridge Prospect:

One sample of raw material silica sand of about 5kg was collected from an embankment just north of the Gordon River Road, near the southern end of the prospect. (Fig 2)

The approximate sample co-ordinates are:

<u>No.</u>	<u>AGD 1966 Co-ords</u>
HR003B	5265330mN 461830mE (approx)

As with the previous two samples from the northern and central parts of the prospect (Krummei 2006), this sample was submitted to Burnie Research Laboratory for preliminary, indicative bench top beneficiation tests which included:

- Size distribution analyses on about 300 gms of raw material of the sample using plastic screens.
- Screening out the +38-250 micron fraction.
- Aggressive attrition washing for ca. 30 minutes of the +38-250 micron size fraction of the sample; pulp make-up – 30% water, 70% solids approx.
- De-sliming and drying the size fraction after attritioning.

The washed, de-slimed and dried +38-250 micron samples were cleaned up at Eriez by WHIMS at a magnetic field strength of +19,000 gauss.

The raw material head sample, the +30-250 micron head sample, the post-attrition wash and post-WHIMS samples were submitted for assay.

Significant delays in turn-around were again experienced both in the processing and the assay laboratories due to work overloads.

#### 7.1.1 Sample Sizing – Raw Material

Details are presented in Appendix 1. In the following table, the results from sample HR003B are compared with those from samples processed last year.

In summary:

Sample No.	Oversize %	+38-250u Fraction %	Undersize %	Total %
HR001B	31.00	38.9	30.00	99.9
HR002B	28.30	53.40	18.30	100.0
HR003B	19.20	56.70	24.10	100.0

The results indicate an approximate yield of the desired size band in the range of 39-57%.

### 7.1.2 Analyses – Raw Material Size Fractions

Assays of the individual size fractions are presented in Appendix 2.

The low readings for iron (<10ppm) and chromium (generally<1ppm) in the target +38-250 micron fraction in sample HR003B are encouraging. However, the elevated levels of alkali metals, especially Al, Ca and Mg, are a cause for concern and require further investigation, as well as the higher concentrations of TiO<sub>2</sub>.

As was the case with the previous samples, the results show a general tendency for impurity levels to increase in the -38 micron fraction. This trend is particularly notable with respect to Al<sub>2</sub>O<sub>3</sub>, Cr<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub> and TiO<sub>2</sub>.

### 7.1.3 Sample Processing and Analyses

The sample processing method is described in Section 7.1 above, with a process flow sheet presented in Appendix 1.

The procedure resulted in four samples for assay for each bulk sample:

- Head sample 1 - original unsized raw material (202001)
- Head sample 2 - +38-250 micron fraction before attrition wash (202011)
- Sample BM - +38-250 micron fraction after attrition wash (202012)
- Sample NM - +38-250 micron non-magnetic fraction after WHIMS (HR003B-NM)

The assay results for the washed, non-magnetic sample HR003B-NM (See Appendix 2) are very encouraging with respect to the low levels of iron and chromium. TiO<sub>2</sub> levels are, however, significantly higher than those for the samples from the northern half of the project.

The table below provides a comparison of the assay results of the processed final product from the northern, central and southern parts of the prospect:

Sample	Al <sub>2</sub> O <sub>3</sub> %	CaO %	Cr <sub>2</sub> O <sub>3</sub> %	Fe <sub>2</sub> O <sub>3</sub> %	K <sub>2</sub> O %	MgO %	MnO %	Na <sub>2</sub> O %	P <sub>2</sub> O <sub>5</sub> %	TiO <sub>2</sub> %	V <sub>2</sub> O <sub>5</sub> %	LOI% %	Comment
HR001B-NM	0.076	0.049	<1	0.003	0.002	0.020	<0.001	0.004	<0.001	0.002	<0.001	0.26	Middle
HR002B-NM	0.025	0.064	<1	0.003	0.001	0.034	<0.001	0.003	<0.002	0.002	<0.001	0.20	North End
HR003B-NM	0.028	0.063	<1	<0.001	0.001	0.028	<0.001	0.003	<0.001	0.010	<0.001	N/A	South End

Most of the values are of the same order, with the exception of higher Al<sub>2</sub>O<sub>3</sub> (X 3) in sample HR001B-NM and higher TiO<sub>2</sub> (X 5) in sample HR003B-NM.

Microscope examination of the end products and magnetic residues of two of the three small bulk samples has been set in train to determine, if possible, the cause of the high levels of Al, Ca, Mg and Ti respectively and to investigate possible methods to reduce them. This work has progressed very slowly due to the consultant's work overload.

Sizing data for the attrition washed (pre-WHIMS) samples show that a relatively fine grained end product can be achieved from the silica raw material at this prospect:

Sample No.	d(0.1) micron	d (0.5) micron	d (0.9) micron
HR001B-BM*	37	85	205
HR002B-BM	49	102	224
HR003B-BM	30	70	170

\*Note: BM – Before magnetic treatment

These results were obtained using a MALVERN Mastersizer 2000 at the University of Ballarat. Details are shown in Appendix 3.

## 8. ENVIRONMENTAL & REHABILITATION ACTIVITIES

Ground disturbance during test sample collection was insignificant and no rehabilitation was necessary.

## **9. CONCLUSIONS**

- 9.1** The low levels of iron and chromium reporting in the silica flour end product of laboratory scale processing of the small bulk sample processed this year are encouraging.
- 9.2** Notwithstanding the elevated levels of alkali metals remaining in these end-products, investigations into the potential of the comparatively small resource at this prospect should continue.
- 9.3** These investigations should also address the source and possible reduction of the contamination by alkali metals of the silica flour end products.

## **10. RECOMMENDATIONS**

- 10.1** Continue investigations into the extent and quality of the Hedgehog Ridge silica sand deposit in the light of generally encouraging results to date and fast market acceptance of the end product.
- 10.2** Investigate the source of the contamination of the deposit by alkali metals and, if possible, identify and test methods for their reduction or removal.

## **11. PROPOSED FUTURE ACTIVITIES**

- 11.1** Continue microscope examination of the end products to determine the possible source of the high levels of Al, Ca, Mg and Ti, and investigate possible methods to reduce them.
- 11.2** Subject to positive outcomes from 11.1 above, and availability of a line cutting/gridding crew, limited fill-in line cutting and gridding for mapping to assist better resource definition.
- 11.3** Assess optimal methods to obtain information on the depth extent of the deposit, with due regard to the topography, thick vegetation and sensitivity of the area of interest.
- 11.4** If warranted, undertake depth tests, sampling and assaying as appropriate.

## 12. REFERENCES

- |                              |      |  |
|------------------------------|------|--|
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**APPENDIX 1**

**HEDGEHOG RIDGE PROSPECT**

**SIZINGS – RAW MATERIAL SAMPLES**

**Burnie** RESEARCH LABORATORY  
TESTWORK FLOWSHEET

CLIENT	MAYDNA SANDS	PROJECT	T0202
STATUS	SILICA SANDS SIZINGS	DATE	27-Feb-07

Receive one sample  
HR003B

Be EXTREMELY careful of contamination

Weigh Sample as received      4222g

Dry well away from other samples

Weigh sample once dried      4038g

Split out 300g

Wet Screen @ 20um

Dry Screen on the following  
plastic screens:  
600,430,250,150,105,75,38,20um

Dispatch all fractions  
(including <20um) to:  
Attn: G Krummei  
Maydena Sands  
Suite 28, 487 St Kilda Rd  
Melbourne Vic 3004

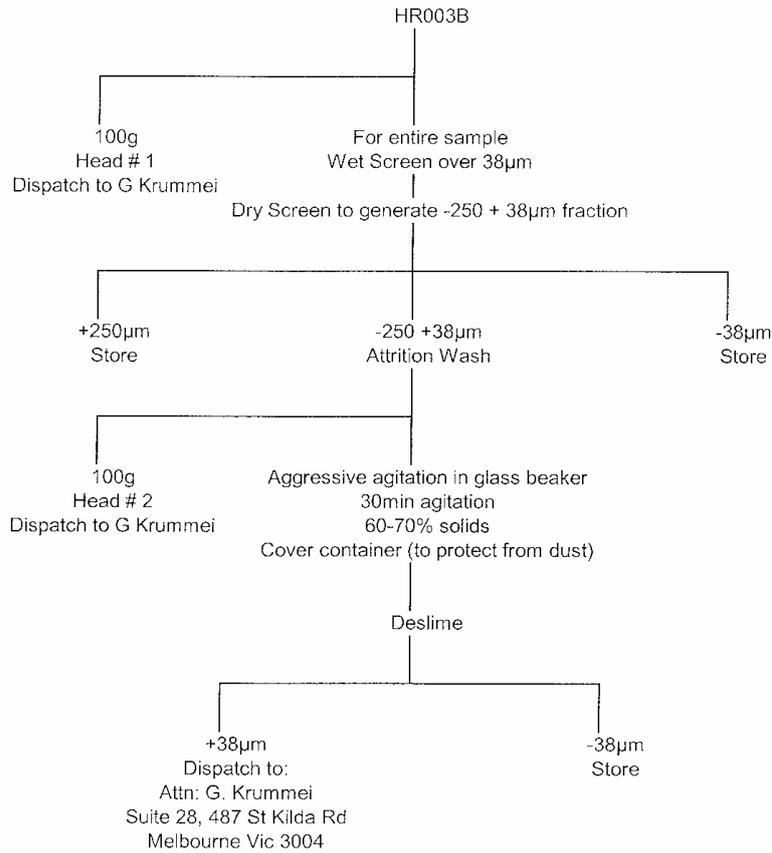
**Burns** RESEARCH LABORATORY  
TESTWORK FLOWSHEET

CLIENT MAYDNA SANDS

PROJECT T0202

STATUS SILICA SANDS ATTRITIONING

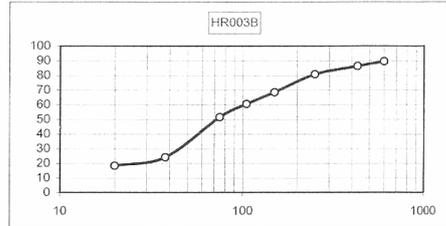
DATE 27-Feb-07



**Burnie** RESEARCH LABORATORY  
SIZING AND SIZE ANALYSIS REPORT SHEET

PROJECT	T0202
TEST NO	SIZING
DATE	23/03/2007
TECHNICIAN	KLG

SIZING		SIZE um	WEIGHTS			
HR003B			g	(%)	(%)PASS	
P80	244	600	31.80	10.53	89.5	
		430	9.30	3.08	86.4	
		250	17.00	5.63	80.8	
		150	36.80	12.19	68.6	
		105	24.20	8.01	60.6	
		75	27.10	8.97	51.6	
		38	82.90	27.45	24.1	
		20	17.40	5.76	18.4	
		SUB		55.50	18.38	0.0
		TOTAL		302.00	100.00	



\*\* For Sample HR003B, grossly oversized rocks ranging from ~10mm to ~50mm were removed before sampling. These rocks accounted for approximately 2.7% of the initial sample.



**APPENDIX 2**

**HEDGEHOG RIDGE PROSPECT**

**ASSAY RESULTS - RAW MATERIAL SIZINGS**  
**AND END PRODUCT**

Page: 2 - A  
 Total # Pages: 2 (A)  
 Finalized Date: 15-MAY-2007  
 Account: MCDSON

**CERTIFICATE OF ANALYSIS BR07040502**

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Sample Description	Method Analyte Units LOR	ME-ICPMS ARCS %	ME-ICPMS CuO %	ME-ICPMS Cr2O3 ppm	ME-ICPMS Fe2O3 %	ME-ICPMS MnO %	ME-ICPMS NiO %	ME-ICPMS PbO %	ME-ICPMS TiO2 %	ME-ICPMS V2O5 %
202001		0.025	0.052	<1	<0.001	0.018	0.003	0.001	0.025	<0.001
202002		0.034	0.027	<1	<0.001	0.012	0.001	0.001	0.043	<0.001
202003		0.040	0.039	<1	<0.001	0.015	0.005	0.020	0.020	<0.001
202004		0.032	0.038	<1	<0.001	0.015	0.004	0.013	0.013	<0.001
202005		0.028	0.043	<1	<0.001	0.018	0.004	0.012	0.012	<0.001
202006		0.021	0.052	<1	<0.001	0.020	0.005	0.012	0.012	<0.001
202007		0.023	0.062	4	0.001	0.025	0.003	0.013	0.013	<0.001
202008		0.032	0.070	<1	0.001	0.036	0.003	0.013	0.013	<0.001
202009		0.036	0.073	<1	0.002	0.038	0.003	0.015	0.015	<0.001
202010		0.050	0.067	4	0.005	0.032	0.004	0.080	0.080	<0.001
202011		0.038	0.080	<1	<0.001	0.032	0.003	0.018	0.018	<0.001
202012		0.032	0.063	1	0.002	0.030	0.003	0.012	0.012	<0.001
THROUGH-NM		0.028	0.053	<1	0.001	0.028	0.003	0.010	0.010	<0.001

**APPENDIX 3**

**HEDGEHOG RIDGE PROSPECT**

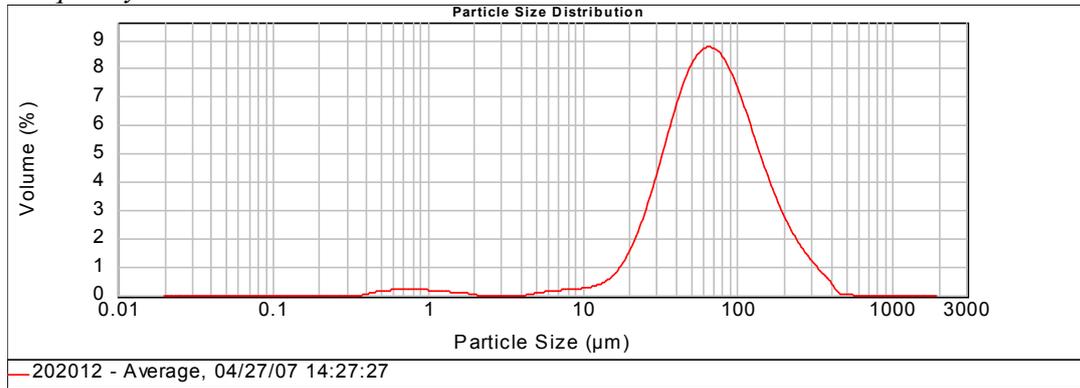
**SIZING DATA – WASHED PRODUCT**

202012 - Average

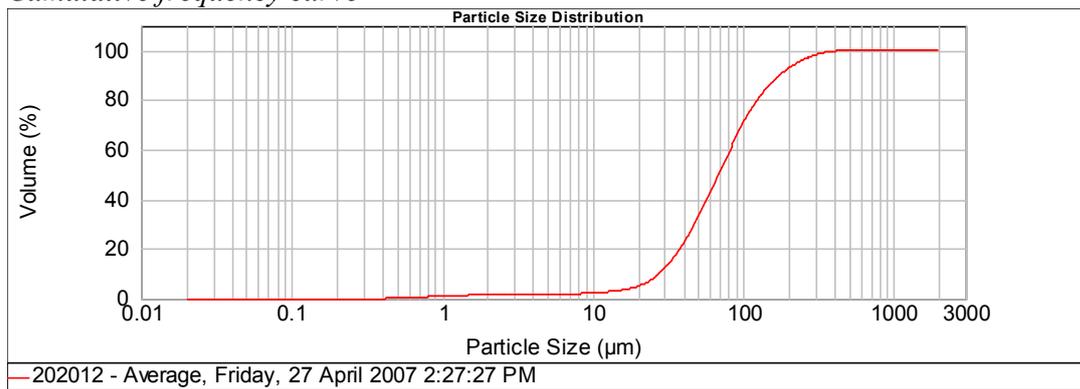
Stephen Carey 04/27/07 14:27:27

Result is the average of three virtually identical measurements performed on sample 202012. Following ultrasonication of one minute, the measurements were almost identical to those without.

*Frequency curve*



*Cumulative frequency curve*



*Data table*

Size (µm)	Volume In %										
0.010	0.00	0.105	0.00	1.096	0.14	11.482	0.31	120.226	5.01	1258.925	0.00
0.011	0.00	0.120	0.00	1.259	0.11	13.183	0.44	138.038	4.13	1445.440	0.00
0.013	0.00	0.138	0.00	1.445	0.09	15.136	0.68	158.489	3.33	1659.587	0.00
0.015	0.00	0.158	0.00	1.660	0.06	17.378	1.07	181.970	2.62	1905.461	0.00
0.017	0.00	0.182	0.00	1.905	0.00	19.953	1.63	208.930	2.04	2187.762	0.00
0.020	0.00	0.209	0.00	2.188	0.00	22.909	2.38	239.883	1.55	2511.886	0.00
0.023	0.00	0.240	0.00	2.512	0.00	26.303	3.29	275.423	1.16	2884.032	0.00
0.026	0.00	0.275	0.00	2.884	0.00	30.200	4.31	316.228	0.81	3311.311	0.00
0.030	0.00	0.316	0.00	3.311	0.00	34.674	5.36	363.078	0.51	3801.894	0.00
0.035	0.00	0.363	0.00	3.802	0.00	39.811	6.34	416.869	0.10	4365.158	0.00
0.040	0.00	0.417	0.09	4.365	0.00	45.709	7.14	478.630	0.00	5011.872	0.00
0.046	0.00	0.479	0.13	5.012	0.03	52.481	7.67	549.541	0.00	5754.399	0.00
0.052	0.00	0.550	0.16	5.754	0.10	60.256	7.89	630.957	0.00	6606.934	0.00
0.060	0.00	0.631	0.18	6.607	0.15	69.183	7.78	724.436	0.00	7585.776	0.00
0.069	0.00	0.724	0.18	7.586	0.18	79.433	7.36	831.764	0.00	8709.636	0.00
0.079	0.00	0.832	0.18	8.710	0.20	91.201	6.71	954.993	0.00	10000.000	0.00
0.091	0.00	0.955	0.18	10.000	0.24	104.713	5.89	1096.478	0.00		
0.105	0.00	1.096	0.16	11.482		120.226		1258.925	0.00		

# ILLUSTRATIONS

