029001

012688

ANNUAL REPORT

DECEMBER 1992

EL 15/91 - SCOTTSDALE

PREPARED BY:

STORNOWAY HEWITT PTY LTD

AMG REFERENCE POINTS ADDED

The area covered by EL 15/91 is considered to be a potential source of high purity silica sand.

It is to be explored to establish quantities and grades of sand for used in glass making and other industry.

Important factors to be determined are:

1. Overall quantities available.
2. Relative content of silica and other minerals .
3. Grain size.

CONCLUSIONS

The area surveyed indicated an adequate deposit with a purity suitable for glass sand but only some 30% of total product was in the required size range.

FUTURE EXPLORATION

This will extend the area currently surveyed to establish total quantities and to explore for more suitable gradings.

029003

STORNOWAY HEWITT PTY. LTD.

Sand Supplies

Relbia R.D. 245
Launceston 7250
Tasmania, Australia
Telephone (003) 44 7250

Beauty Point, Sand Wash (003) 83 4277
After Hours : R. J. Hewitt (003) 94 7209

ENVIRONMENTAL LICENCE 15/91

ANNUAL REPORT 1991/92

During the year mechanical digging was carried out on the area now occupied by ML 11M/91.

41 pits were excavated on a 100 metre grid over an area of 42 hectares. (Area plan attached) Pits were excavated to the base of sand deposits and one sample taken from each pit, being representative of material at all depths of the deposit.

Samples were individually tested for grading and purity.

Expenditure to 31/12/91		Nil
to 30/06/92		$9,468.00
Comprising	Field works	$1,392.50
	Freight and analysis	$5,587.50
	Office & Administration	$2,488.00
		$9,468.00
Proposed expenditure 1992/93 ✓		$5,000.00

029004

I Alan Gardner of Stornoway, RSD 245 Relbia, Tasmania being a director of Stornoway Hewitt Pty. Ltd., do solemnly and sincerely declare that the foregoing information is to the best of my knowledge and belief correct, and I make this solemn declaration consciously believing the same to be true and by virtue of the provisions of an Act of the Parliament of Tasmania rendering persons making a false declaration punishable for wilful and corrupt perjury.

Declared at RELBIA ...in the State of Tasmania

this 10TH day of November 1992

before me ...G. R. McGrath-Kerr... J.P.
A Justice of the Peace

Signed.....

MINES		
FILE REF.		
15 DEC 1992		
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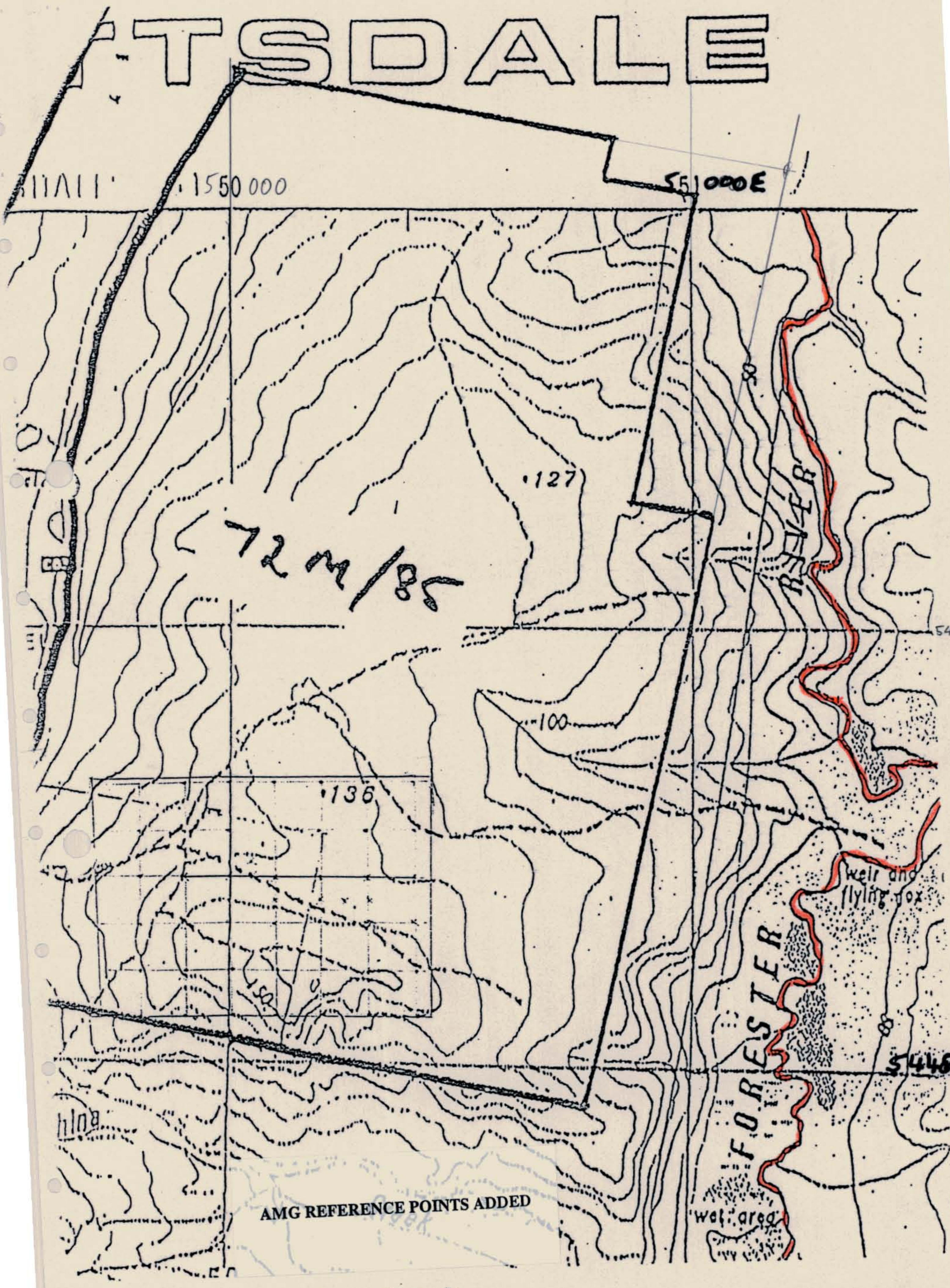
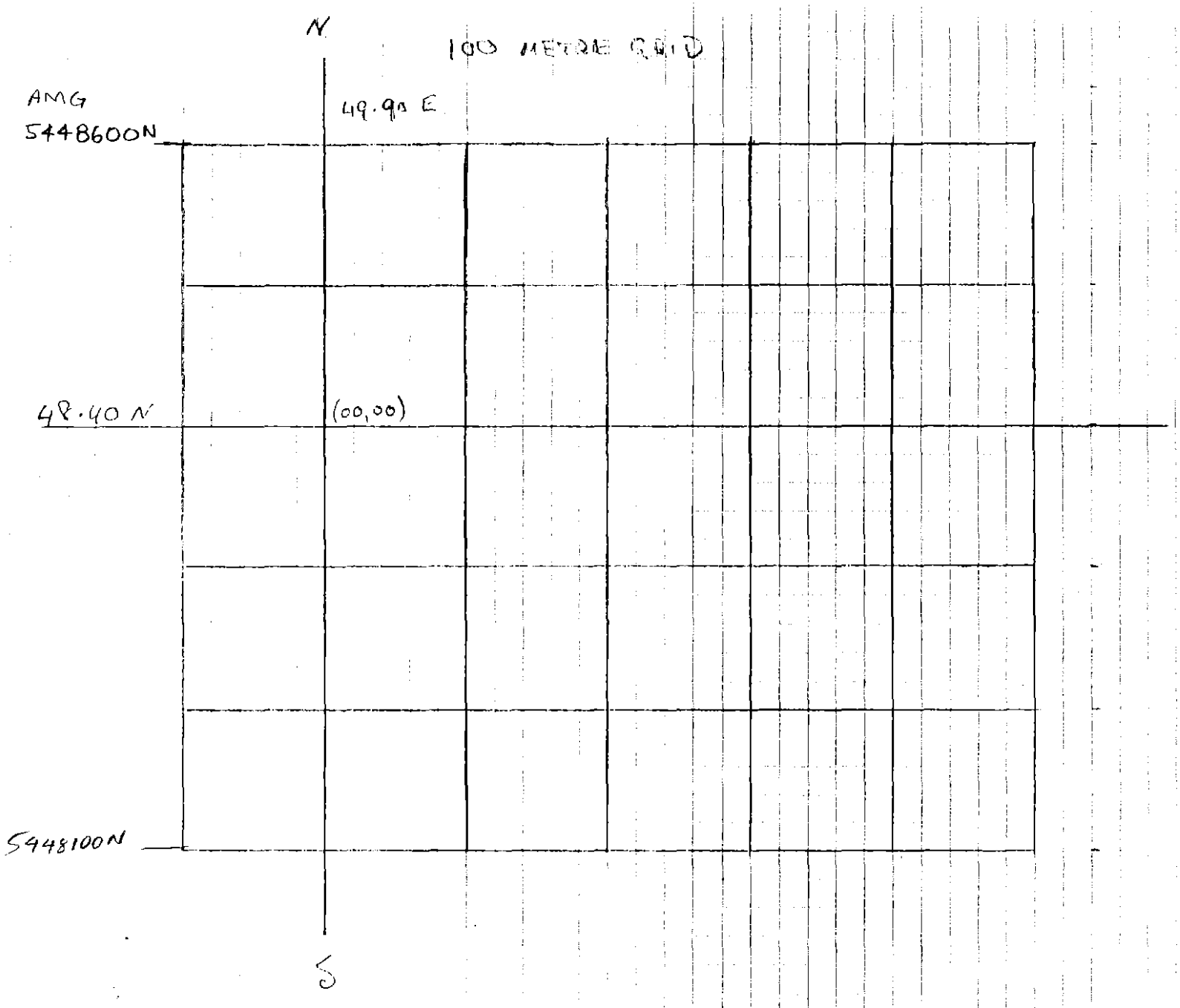
FORESTER

029005



SURVEY GR.F



STORNOWAY HEWITT P/L 1/4/92

ML11/91 SCOTTSDALE 100 METRE GRID SURVEY

		-100	00	100	200	300	400	500
200 N	T'soil	0.2	0.2	0.3	0.3	0.3	0.3	0.3
	Sand	1.4	1.3	1	0	2	0.6	1.4
	Base	Black S	H Pan	H Pan	H Pan	Clay	H Pan	Clay
100 N	T'soil	0.3	0.3	0.3	0.3	0.3	0.3	0.3
	Sand	0	0.3	1.8	0.4	1.7	0.4	2.8
	Base	Clay	H Pan	Clay	Clay	Clay	H Pan	Yellow S
00	T'soil	0.3	0.3	0.3	0.5	0.3	0.3	
	Sand	0.7	0.8	2.3	0	1.1	0	
	Base		H Pan	H Pan	HP/Clay	H Pan	Clay	
100 S	T'soil	0.2	0.3	0.2	0.4	0.3	0.4	0.3
	Sand	1.4	2	0.3	1.3	0.4	3.3	1.8
	Base	H Pan	Yellow S	H Pan	H Pan	H Pan	H Pan	H Pan
200 S	T'soil	0.3	0.3	0.4	0.3	0.4	0.4	0.4
	Sand	1.7	1.7	1.2	0.9	0.7	1.2	3.1
	Base	H Pan	Clay Int	Clay	Yellow S	Yellow S	Clay	Black S
300 S	T'soil	0.3	0.3	0.3	0.4	0.3	0.4	0.3
	Sand	0.4	1.3	1.3	0.9	1.2	0.8	0.9
	Base	H Pan	H Pan	H Pan	Yellow S	Yellow S	H Pan	Black S

LEGEND.

Black S - Black Sand

H Pan - Hardpan

Yellow S - Yellow Sand.

STORNOWAY HEWITT ML11/91 SCOTTSDALE SANDS - GRID SURVEY 1/4/92

	100 100N	200 100N	300 100N	400 100N	100 00	200 00
+0.425mm MATERIAL						
% +0.425mm by wt.	87.2	74.5	69.9	80.4		
SiO2 (bal)	99.94	99.93	99.95	99.95		
Na2O	<0.01	<0.01	<0.01	<0.01		
K2O	<0.01	<0.01	<0.01	<0.01		
CaO	<0.01	<0.01	<0.01	<0.01		
MgO	<0.01	<0.01	<0.01	<0.01		
Al2O3	0.01	0.02	0.01	0.01		
TiO2	0.04	0.04	0.03	0.03		
Fe2O3	0.005	0.008	0.005	0.008		
Cr2O3	0.0001	0.0003	0.0001	0.0002		
-0.425mm MATERIAL						
% -0.425mm by wt.	12.8	25.5	30.1	19.6		
SiO2 (bal)	99.29	99.39	99.56	99.32		
Na2O	<0.01	<0.01	<0.01	0.01		
K2O	<0.01	<0.01	<0.01	<0.01		
CaO	<0.01	<0.01	<0.01	<0.01		
MgO	<0.01	<0.01	<0.01	<0.01		
Al2O3	0.07	0.12	0.05	0.06		
TiO2	0.45	0.33	0.24	0.41		
Fe2O3	0.095	0.090	0.054	0.109		
Cr2O3	0.0017	0.0012	0.0016	0.0013		
SCREEN (mm) wt%						
	+3.250	12.4	7.9	6.6	11.2	
-3.250	+2.000	22.0	11.2	11.0	19.3	
-2.000	+1.000	30.4	20.4	23.3	28.9	
-1.000	+0.600	17.4	21.3	19.6	14.4	
-0.600	+0.425	5.0	13.8	9.5	6.7	
-0.425	+0.250	3.7	11.4	12.2	7.9	
-0.250	+0.150	1.9	4.1	6.3	4.2	
-0.150	+0.106	1.0	2.1	2.6	2.1	
-0.106	+0.075	2.0	1.4	2.2	1.3	
-0.075		4.3	6.5	6.8	4.2	

STORNOWAY HEWITT

	300 00	400 00	100 100S	200 100S	300 100S	400 400S
+0.425mm MATERIAL						
% +0.425mm by wt.			89.3		78.2	
SiO2 (bal)			99.95		99.95	
Na2O			<0.01		<0.01	
K2O			<0.01		<0.01	
CaO			<0.01		<0.01	
MgO			<0.01		<0.01	
Al2O3			0.01		0.01	
TiO2			0.03		0.04	
Fe2O3			0.005		0.004	
Cr2O3			0.0002		0.0001	
-0.425mm MATERIAL						
% -0.425mm by wt.			10.7		21.8	
SiO2 (bal)			99.43		99.71	
Na2O			<0.01		<0.01	
K2O			<0.01		<0.01	
CaO			<0.01		<0.01	
MgO			<0.01		<0.01	
Al2O3			0.06		0.04	
TiO2			0.35		0.17	
Fe2O3			0.086		0.039	
Cr2O3			0.0016		0.0008	
SCREEN (mm) wt%						
+3.250			7.4		10.0	
-3.250 +2.000			17.4		23.1	
-2.000 +1.000			33.9		2.7	
-1.000 +0.600			23.3		28.7	
-0.600 +0.425			7.4		13.8	
-0.425 +0.250			4.1		12.3	
-0.250 +0.150			2.0		4.3	
-0.150 +0.106			0.8		1.7	
-0.106 +0.075			0.7		0.9	
-0.075			3.1		2.6	

STORNOWAY HEWITT

	100 200S	200 200S	300 200S	400 200S
+0.425mm MATERIAL				
% +0.425mm by wt.	77.9	80.7	62.2	72.7
SiO2 (bal)	99.95	99.95	99.93	99.92
Na2O	<0.01	<0.01	<0.01	<0.01
K2O	<0.01	<0.01	<0.01	<0.01
CaO	<0.01	<0.01	<0.01	<0.01
MgO	<0.01	<0.01	<0.01	<0.01
Al2O3	0.01	0.01	0.02	0.01
TiO2	0.03	0.04	0.05	0.06
Fe2O3	0.005	0.005	0.006	0.006
Cr2O3	0.0002	0.0001	0.0005	0.0002
-0.425mm MATERIAL				
% -0.425mm by wt.	22.1	19.3	37.8	27.3
SiO2 (bal)	99.55	99.62	99.64	99.51
Na2O	0.02	<0.01	<0.01	<0.01
K2O	<0.01	<0.01	<0.01	<0.01
CaO	<0.01	<0.01	<0.01	<0.01
MgO	<0.01	<0.01	<0.01	<0.01
Al2O3	0.05	0.05	0.05	0.04
TiO2	0.26	0.22	0.21	0.28
Fe2O3	0.053	0.047	0.040	0.053
Cr2O3	0.0012	0.0014	0.0017	0.0011
SCREEN (mm) wt%				
+3.250	9.4	7.9	2.3	6.4
-3.250 +2.000	18.6	14.2	9.0	13.2
-2.000 +1.000	27.0	29.5	21.2	24.5
-1.000 +0.600	15.5	21.5	18.8	19.6
-0.600 +0.425	7.4	7.7	12.9	9.1
-0.425 +0.250	8.0	5.8	16.2	10.0
-0.250 +0.150	5.2	3.3	8.0	6.4
-0.150 +0.106	2.2	2.0	4.2	3.2
-0.106 +0.075	2.8	2.0	2.5	1.9
-0.075	4.0	6.3	6.9	5.8

TEST PIT NO.	100-00	150-30N	300-00	300-50S	300-200S	350-50s	400-100s	500-100s	500-200S	AVERAGE
4.75	2.2%	0.2%	1.7%	5.8%	0.0%	2.0%	0.8%	0.6%	9.2%	2.5%
2.36	12.0%	4.4%	11.8%	21.3%	8.6%	13.2%	8.8%	20.5%	23.0%	13.8%
1.18	22.6%	12.4%	26.8%	30.8%	21.3%	26.4%	24.4%	29.6%	27.9%	24.7%
0.600	26.2%	14.7%	24.0%	25.8%	20.9%	22.7%	29.3%	16.6%	20.2%	22.3%
0.425	9.5%	14.6%	11.0%	5.8%	12.0%	7.2%	9.8%	4.7%	5.5%	8.9%
0.300	7.8%	20.0%	7.6%	2.9%	11.2%	6.6%	6.6%	4.7%	3.6%	7.9%
0.212	5.2%	10.1%	3.9%	1.5%	6.6%	4.4%	3.6%	4.2%	2.2%	4.6%
0.150	3.4%	6.7%	2.7%	0.9%	4.7%	2.9%	2.6%	3.3%	1.4%	3.2%
0.075	3.3%	7.2%	3.5%	0.9%	5.6%	2.8%	3.1%	4.2%	1.4%	3.6%
PAN	7.8%	9.7%	7.0%	4.3%	9.0%	11.8%	11.0%	11.7%	5.5%	8.7%
	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
										WEIGHTED AV.
4.75	2.2%	0.2%	1.7%	5.8%	0.0%	2.0%	0.8%	0.6%	9.2%	3.2%
2.36	12.0%	4.4%	11.8%	21.3%	8.6%	13.2%	8.8%	20.5%	23.0%	15.1%
1.18	22.6%	12.4%	26.8%	30.8%	21.3%	26.4%	24.4%	29.6%	27.9%	26.0%
0.600	26.2%	14.7%	24.0%	25.8%	20.9%	22.7%	29.3%	16.6%	20.2%	23.0%
0.300	17.3%	34.5%	18.5%	8.7%	23.2%	13.8%	16.4%	9.4%	9.1%	14.4%
0.150	8.6%	16.8%	6.7%	2.3%	11.2%	7.3%	6.2%	7.5%	3.6%	6.5%
0.075	3.3%	7.2%	3.5%	0.9%	5.6%	2.8%	3.1%	4.2%	1.4%	3.0%
PAN	7.8%	9.7%	7.0%	4.3%	9.0%	11.8%	11.0%	11.7%	5.5%	8.8%
					***				**	

*** FINEST

** COARSEST 00-200N SIMILAR

STORNOWAY HEWITT PTY. LTD.

Sand Supplies

Reibia R.D. 245
Launceston 7250
Tasmania, Australia
Telephone (003) 44 7250
Beauty Point, Sand Wash (003) 83 4277
After Hours: R. J. Hewitt (003) 94 7209

A.C.N. 009 558 936 Fax: (003) 43 0920

36

FACSIMILE TRANSMISSION

TO: DEPARTMENT OF MINES

ATTENTION: THE EXECUTIVE OFFICER

FROM: ALAN GARDNER

DATE: 17/3/93 No. PAGES INCLUSIVE: 1

SUBJECT:

MINES		
FILE REF. EL 15/91		
17 MAR 1993		
DOC. REF. 21075		
OFFICER	FOR ACTION	FOR INFO.
JGO	✓	
RESUBMIT TO	DATE	

MESSAGE:-

RE. ANNUAL REPORT EL 15/91

YOUR LETTER 18/2/93

IN REPLY.

CHEMICAL ANALYSIS WAS CARRIED OUT BY ACL SYDNEY BY X RAY FLOURESCENCE.

SIZING WAS CARRIED OUT BOTH BY ACL IN ASSOCIATION WITH CHEMICAL ANALYSIS, AND IN OUR OWN LABORATORY.

Alan Gardner

FAX No. (002) 44 2117