R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3928411 SPv2	
Contact:	s9(2)(a)	**Date Received:**	01-Jul-2025	
	C/- Beca Limited	**Date Reported:**	14-Jul-2025	**(Amended)**
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

		Sample Name:	MRS1_SS357_0.0 01-Jul-2025	MRS1_SS358_0.0 01-Jul-2025	MRS1_SS359_0.0 01-Jul-2025	MRS1_SS360_0.0 01-Jul-2025	MRS1_SS361_0.0 01-Jul-2025
		Lab Number:	3928411.1	3928411.4	3928411.7	3928411.10	3928411.13
Heavy Metals with Mercury, Screen Level							
Total Recoverable Arsenic	mg/kg dry wt		3	9	5	22	4
Total Recoverable Cadmium	mg/kg dry wt		< 0.10	0.28	0.23	0.27	0.17
Total Recoverable Chromium	mg/kg dry wt		14	23	22	27	23
Total Recoverable Copper	mg/kg dry wt		9	16	32	18	19
Total Recoverable Lead	mg/kg dry wt		33	39	68	27	30
Total Recoverable Mercury	mg/kg dry wt		0.11	0.14	0.12	0.17	0.13
Total Recoverable Nickel	mg/kg dry wt		6	7	16	14	21
Total Recoverable Zinc	mg/kg dry wt		43	59	111	58	65

		Sample Name:	MRS1_SS345_0.0 01-Jul-2025	MRS1_SS355_0.0 01-Jul-2025	MRS1_SS356_0.0 01-Jul-2025	MRS1_SS348_0.0 01-Jul-2025	MRS1_SS349_0.0 01-Jul-2025
		Lab Number:	3928411.15	3928411.20	3928411.25	3928411.35	3928411.40
Individual Tests							
Dry Matter	g/100g as rcvd		-	76	78	77	79
Heavy Metals with Mercury, Screen Level							
Total Recoverable Arsenic	mg/kg dry wt		3	4	5	< 2	4
Total Recoverable Cadmium	mg/kg dry wt		< 0.10	< 0.10	< 0.10	< 0.10	0.13
Total Recoverable Chromium	mg/kg dry wt		24	46	47	13	28
Total Recoverable Copper	mg/kg dry wt		9	19	21	< 2	15
Total Recoverable Lead	mg/kg dry wt		8.7	8.8	9.7	6.0	24
Total Recoverable Mercury	mg/kg dry wt		< 0.10	< 0.10	< 0.10	< 0.10	0.14
Total Recoverable Nickel	mg/kg dry wt		18	54	56	3	22
Total Recoverable Zinc	mg/kg dry wt		22	47	50	6	54
Polycyclic Aromatic Hydrocarbons Screening in Soil*							
Total of Reported PAHs in Soil	mg/kg dry wt		-	< 0.4	< 0.3	< 0.4	< 0.3
1-Methylnaphthalene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
2-Methylnaphthalene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Acenaphthylene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Acenaphthene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Anthracene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Benzo[a]anthracene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Benzo[a]pyrene (BAP)	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt		-	< 0.032	< 0.031	< 0.031	< 0.030
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt		-	< 0.032	< 0.031	< 0.031	< 0.030
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013
Benzo[e]pyrene	mg/kg dry wt		-	< 0.014	< 0.013	< 0.013	< 0.013

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil						
Sample Name:		MRS1_SS345_0.0 01-Jul-2025	MRS1_SS355_0.0 01-Jul-2025	MRS1_SS356_0.0 01-Jul-2025	MRS1_SS348_0.0 01-Jul-2025	MRS1_SS349_0.0 01-Jul-2025
Lab Number:		3928411.15	3928411.20	3928411.25	3928411.35	3928411.40
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Benzo[g,h,i]perylene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Benzo[k]fluoranthene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Chrysene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Dibenzo[a,h]anthracene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Fluoranthene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Fluorene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Naphthalene	mg/kg dry wt	-	< 0.07	< 0.07	< 0.07	< 0.07
Perylene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Phenanthrene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013
Pyrene	mg/kg dry wt	-	< 0.014	< 0.013	< 0.013	< 0.013

Sample Name:		MRS1_SS350_0.0 01-Jul-2025	MRS1_SS346_0.0 01-Jul-2025
Lab Number:		3928411.45	3928411.53
Individual Tests			
Dry Matter	g/100g as rcvd	76	77
Heavy Metals with Mercury, Screen Level			
Total Recoverable Arsenic	mg/kg dry wt	4	4
Total Recoverable Cadmium	mg/kg dry wt	< 0.10	< 0.10
Total Recoverable Chromium	mg/kg dry wt	41	38
Total Recoverable Copper	mg/kg dry wt	18	18
Total Recoverable Lead	mg/kg dry wt	9.4	10.3
Total Recoverable Mercury	mg/kg dry wt	< 0.10	0.11
Total Recoverable Nickel	mg/kg dry wt	50	48
Total Recoverable Zinc	mg/kg dry wt	41	43
Polycyclic Aromatic Hydrocarbons Screening in Soil*			
Total of Reported PAHs in Soil	mg/kg dry wt	< 0.4	< 0.3
1-Methylnaphthalene	mg/kg dry wt	< 0.013	< 0.013
2-Methylnaphthalene	mg/kg dry wt	< 0.013	< 0.013
Acenaphthylene	mg/kg dry wt	< 0.013	< 0.013
Acenaphthene	mg/kg dry wt	< 0.013	< 0.013
Anthracene	mg/kg dry wt	< 0.013	< 0.013
Benzo[a]anthracene	mg/kg dry wt	< 0.013	< 0.013
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.013	< 0.013
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	< 0.032	< 0.031
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.032	< 0.030
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	< 0.013	< 0.013
Benzo[e]pyrene	mg/kg dry wt	< 0.013	< 0.013
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.013	< 0.013
Benzo[k]fluoranthene	mg/kg dry wt	< 0.013	< 0.013
Chrysene	mg/kg dry wt	< 0.013	< 0.013
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.013	< 0.013
Fluoranthene	mg/kg dry wt	< 0.013	< 0.013
Fluorene	mg/kg dry wt	< 0.013	< 0.013
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.013	< 0.013
Naphthalene	mg/kg dry wt	< 0.07	< 0.07
Perylene	mg/kg dry wt	< 0.013	< 0.013
Phenanthrene	mg/kg dry wt	< 0.013	< 0.013
Pyrene	mg/kg dry wt	< 0.013	< 0.013

Analyst's Comments

Amended Report: This certificate of analysis replaces report '3928411-SPv1' issued on 07-Jul-2025 at 2:33 pm.
Reason for amendment: Additional testing added as per clients request.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Environmental Solids Sample Drying*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1, 4, 7, 10, 13, 15, 20, 25, 35, 40, 45, 53
Total of Reported PAHs in Soil	Sonication extraction, GC-MS/MS analysis. In-house based on US EPA 8270.	0.03 mg/kg dry wt	20, 25, 35, 40, 45, 53
Heavy Metals with Mercury, Screen Level	Dried sample, < 2mm fraction. Nitric/Hydrochloric acid digestion US EPA 200.2. Complies with NES Regulations. ICP-MS screen level, interference removal by Kinetic Energy Discrimination if required.	0.10 - 4 mg/kg dry wt	1, 4, 7, 10, 13, 15, 20, 25, 35, 40, 45, 53
Polycyclic Aromatic Hydrocarbons Screening in Soil*	Sonication extraction, GC-MS/MS analysis. Tested on as received sample. In-house based on US EPA 8270.	0.010 - 0.05 mg/kg dry wt	20, 25, 35, 40, 45, 53
Dry Matter	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed). US EPA 3550.	0.10 g/100g as rcvd	20, 25, 35, 40, 45, 53
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	BaP Potency Equivalence calculated from; Benzo(a)anthracene x 0.1 + Benzo(b)fluoranthene x 0.1 + Benzo(j)fluoranthene x 0.1 + Benzo(k)fluoranthene x 0.1 + Benzo(a)pyrene x 1.0 + Chrysene x 0.01 + Dibenzo(a,h)anthracene x 1.0 + Fluoranthene x 0.01 + Indeno(1,2,3-c,d)pyrene x 0.1. Ministry for the Environment. 2011. Methodology for Deriving Standards for Contaminants in Soil to Protect Human Health. Wellington: Ministry for the Environment.	0.024 mg/kg dry wt	20, 25, 35, 40, 45, 53
Benzo[a]pyrene Toxic Equivalence (TEF)*	Benzo[a]pyrene Toxic Equivalence (TEF) calculated from; Benzo[a]pyrene x 1.0 + Benzo(a)anthracene x 0.1 + Benzo(b) fluoranthene x 0.1 + Benzo(k)fluoranthene x 0.1 + Chrysene x 0.01 + Dibenzo(a,h)anthracene x 1.0 + Indeno(1,2,3-c,d)pyrene x 0.1. Guidelines for assessing and managing contaminated gasworks sites in New Zealand (GMG) (MfE, 1997).	0.024 mg/kg dry wt	20, 25, 35, 40, 45, 53

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 03-Jul-2025 and 14-Jul-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

s9(2)(a)

Client Services Manager - Environmental

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3929413	SPv1
Contact:	s9(2)(a)	**Date Received:**	02-Jul-2025	
	C/- Beca Limited	**Date Reported:**	09-Jul-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name:		MRS1_SS362_0.0 02-Jul-2025	MRS1_SS364_0.0 02-Jul-2025	MRS1_SS365_0.0 02-Jul-2025	MRS1_SS366_0.0 02-Jul-2025	MRS1_SS367_0.0 02-Jul-2025
Lab Number:		3929413.1	3929413.4	3929413.5	3929413.6	3929413.7
Individual Tests						
Dry Matter	g/100g as rcvd	69	65	73	65	69
Heavy Metals with Mercury, Screen Level						
Total Recoverable Arsenic	mg/kg dry wt	5	17	41	5	10
Total Recoverable Cadmium	mg/kg dry wt	0.38	0.18	0.13	0.12	0.18
Total Recoverable Chromium	mg/kg dry wt	17	27	16	29	23
Total Recoverable Copper	mg/kg dry wt	17	24	28	20	19
Total Recoverable Lead	mg/kg dry wt	41	54	46	32	34
Total Recoverable Mercury	mg/kg dry wt	0.16	0.15	< 0.10	0.14	0.15
Total Recoverable Nickel	mg/kg dry wt	8	16	8	21	14
Total Recoverable Zinc	mg/kg dry wt	83	140	87	63	60
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Total of Reported PAHs in Soil	mg/kg dry wt	< 0.4	< 0.4	< 0.4	< 0.4	0.7
1-Methylnaphthalene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
2-Methylnaphthalene	mg/kg dry wt	< 0.03	< 0.016	< 0.014	< 0.015	< 0.014
Acenaphthylene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Acenaphthene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Anthracene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Benzo[a]anthracene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	0.067
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.015	< 0.016	0.019	0.015	0.056
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	< 0.035	< 0.038	< 0.032	< 0.036	0.085
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.035	< 0.038	< 0.032	< 0.036	0.084
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	< 0.015	0.017	0.024	0.017	0.073
Benzo[e]pyrene	mg/kg dry wt	< 0.015	< 0.016	0.015	< 0.015	0.032
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.015	< 0.016	0.014	< 0.015	0.023
Benzo[k]fluoranthene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	0.026
Chrysene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	0.056
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Fluoranthene	mg/kg dry wt	< 0.015	0.023	0.020	0.028	0.141
Fluorene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.015	< 0.016	0.014	< 0.015	0.028
Naphthalene	mg/kg dry wt	< 0.08	< 0.08	< 0.07	< 0.08	< 0.07
Perylene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	< 0.015	< 0.014
Phenanthrene	mg/kg dry wt	< 0.015	< 0.016	< 0.014	0.022	0.049
Pyrene	mg/kg dry wt	< 0.015	0.025	0.025	0.029	0.133

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil						
Sample Name:		MRS1_SS362_0.0 02-Jul-2025	MRS1_SS364_0.0 02-Jul-2025	MRS1_SS365_0.0 02-Jul-2025	MRS1_SS366_0.0 02-Jul-2025	MRS1_SS367_0.0 02-Jul-2025
Lab Number:		3929413.1	3929413.4	3929413.5	3929413.6	3929413.7
Total Petroleum Hydrocarbons in Soil						
C7 - C9	mg/kg dry wt	< 30	< 30	< 20	< 30	< 20
C10 - C14	mg/kg dry wt	< 20	< 20	< 20	< 20	< 20
C15 - C36	mg/kg dry wt	< 40	< 40	< 40	< 40	< 40
Total hydrocarbons (C7 - C36)	mg/kg dry wt	< 90	< 90	< 80	< 90	< 80

Sample Name:		MRS1_SS368_0.0 02-Jul-2025	MRS1_SS369_0.0 02-Jul-2025	MRS1_SS370_0.0 02-Jul-2025	MRS1_SS371_0.0 02-Jul-2025	MRS1_SS372_0.0 02-Jul-2025
Lab Number:		3929413.8	3929413.9	3929413.10	3929413.11	3929413.12
Individual Tests						
Dry Matter	g/100g as rcvd	66	60	69	66	68
Heavy Metals with Mercury, Screen Level						
Total Recoverable Arsenic	mg/kg dry wt	4	26	5	4	4
Total Recoverable Cadmium	mg/kg dry wt	0.15	0.20	0.25	0.17	< 0.10
Total Recoverable Chromium	mg/kg dry wt	16	42	13	13	11
Total Recoverable Copper	mg/kg dry wt	15	38	16	11	16
Total Recoverable Lead	mg/kg dry wt	25	33	55	22	24
Total Recoverable Mercury	mg/kg dry wt	0.13	0.15	0.15	< 0.10	< 0.10
Total Recoverable Nickel	mg/kg dry wt	16	22	5	6	7
Total Recoverable Zinc	mg/kg dry wt	46	109	60	110	44
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Total of Reported PAHs in Soil	mg/kg dry wt	1.5	< 0.4	< 0.4	< 0.4	< 0.4
1-Methylnaphthalene	mg/kg dry wt	< 0.015	< 0.017	< 0.015	< 0.015	< 0.015
2-Methylnaphthalene	mg/kg dry wt	< 0.015	< 0.017	< 0.015	< 0.03	< 0.03
Acenaphthylene	mg/kg dry wt	< 0.015	< 0.017	< 0.015	< 0.015	< 0.015
Acenaphthene	mg/kg dry wt	< 0.015	< 0.017	< 0.015	< 0.015	< 0.015
Anthracene	mg/kg dry wt	0.019	< 0.017	< 0.015	< 0.015	< 0.015
Benzo[a]anthracene	mg/kg dry wt	0.131	0.022	< 0.015	< 0.015	0.019
Benzo[a]pyrene (BAP)	mg/kg dry wt	0.128	0.023	< 0.015	< 0.015	0.018
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	0.195	< 0.040	< 0.036	< 0.035	< 0.036
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	0.192	< 0.039	< 0.036	< 0.035	< 0.036
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	0.158	0.031	0.018	< 0.015	0.024
Benzo[e]pyrene	mg/kg dry wt	0.077	< 0.017	< 0.015	< 0.015	< 0.015
Benzo[g,h,i]perylene	mg/kg dry wt	0.066	< 0.017	< 0.015	< 0.015	< 0.015
Benzo[k]fluoranthene	mg/kg dry wt	0.067	< 0.017	< 0.015	< 0.015	< 0.015
Chrysene	mg/kg dry wt	0.116	0.023	< 0.015	< 0.015	0.015
Dibenzo[a,h]anthracene	mg/kg dry wt	0.020	< 0.017	< 0.015	< 0.015	< 0.015
Fluoranthene	mg/kg dry wt	0.28	0.056	0.022	0.015	0.042
Fluorene	mg/kg dry wt	< 0.015	< 0.017	< 0.015	< 0.015	< 0.015
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	0.070	< 0.017	< 0.015	< 0.015	< 0.015
Naphthalene	mg/kg dry wt	< 0.08	< 0.09	< 0.08	< 0.08	< 0.08
Perylene	mg/kg dry wt	0.026	< 0.017	< 0.015	< 0.015	< 0.015
Phenanthrene	mg/kg dry wt	0.081	0.025	< 0.015	< 0.015	< 0.015
Pyrene	mg/kg dry wt	0.24	0.047	0.020	0.015	0.037
Total Petroleum Hydrocarbons in Soil						
C7 - C9	mg/kg dry wt	< 30	< 30	< 30	< 30	< 30
C10 - C14	mg/kg dry wt	< 20	< 20	< 20	< 20	< 20
C15 - C36	mg/kg dry wt	< 40	94	54	< 40	42
Total hydrocarbons (C7 - C36)	mg/kg dry wt	< 90	95	< 90	< 90	< 90

Sample Name:		MRS1_SS373_0.0 02-Jul-2025	MRS1_SS374_0.0 02-Jul-2025	MRS1_SS375_0.0 02-Jul-2025	MRS1_SS376_0.0 02-Jul-2025	MRS1_SS377_0.0 02-Jul-2025
Lab Number:		3929413.13	3929413.16	3929413.18	3929413.19	3929413.20

Sample Type: Soil						
Sample Name:		MRS1_SS373_0.0 02-Jul-2025	MRS1_SS374_0.0 02-Jul-2025	MRS1_SS375_0.0 02-Jul-2025	MRS1_SS376_0.0 02-Jul-2025	MRS1_SS377_0.0 02-Jul-2025
Lab Number:		3929413.13	3929413.16	3929413.18	3929413.19	3929413.20
Individual Tests						
Dry Matter	g/100g as rcvd	67	66	74	67	64
Heavy Metals with Mercury, Screen Level						
Total Recoverable Arsenic	mg/kg dry wt	5	4	7	5	4
Total Recoverable Cadmium	mg/kg dry wt	0.18	0.21	0.23	0.17	0.17
Total Recoverable Chromium	mg/kg dry wt	18	20	28	36	25
Total Recoverable Copper	mg/kg dry wt	14	10	57	25	18
Total Recoverable Lead	mg/kg dry wt	25	25	220	64	40
Total Recoverable Mercury	mg/kg dry wt	0.12	0.10	< 0.10	0.10	0.18
Total Recoverable Nickel	mg/kg dry wt	7	11	32	17	12
Total Recoverable Zinc	mg/kg dry wt	49	43	184	119	50
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Total of Reported PAHs in Soil	mg/kg dry wt	0.6	< 0.4	< 0.4	< 0.4	< 0.4
1-Methylnaphthalene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
2-Methylnaphthalene	mg/kg dry wt	< 0.015	< 0.03	< 0.013	< 0.015	< 0.016
Acenaphthylene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Acenaphthene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Anthracene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Benzo[a]anthracene	mg/kg dry wt	0.038	0.017	0.013	< 0.015	< 0.016
Benzo[a]pyrene (BAP)	mg/kg dry wt	0.055	0.020	0.016	< 0.015	< 0.016
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	0.084	< 0.036	< 0.032	< 0.035	< 0.037
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	0.083	< 0.036	< 0.032	< 0.035	< 0.037
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	0.072	0.028	0.023	< 0.015	< 0.016
Benzo[e]pyrene	mg/kg dry wt	0.037	< 0.015	0.014	< 0.015	< 0.016
Benzo[g,h,i]perylene	mg/kg dry wt	0.038	< 0.015	< 0.013	< 0.015	< 0.016
Benzo[k]fluoranthene	mg/kg dry wt	0.031	< 0.015	< 0.013	< 0.015	< 0.016
Chrysene	mg/kg dry wt	0.043	0.017	< 0.013	< 0.015	< 0.016
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Fluoranthene	mg/kg dry wt	0.084	0.049	0.031	0.016	< 0.016
Fluorene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	0.039	0.015	< 0.013	< 0.015	< 0.016
Naphthalene	mg/kg dry wt	< 0.08	< 0.08	< 0.07	< 0.08	< 0.08
Perylene	mg/kg dry wt	< 0.015	< 0.015	< 0.013	< 0.015	< 0.016
Phenanthrene	mg/kg dry wt	0.023	0.024	0.014	< 0.015	< 0.016
Pyrene	mg/kg dry wt	0.083	0.040	0.036	0.017	< 0.016
Total Petroleum Hydrocarbons in Soil						
C7 - C9	mg/kg dry wt	< 30	< 30	< 20	< 20	< 30
C10 - C14	mg/kg dry wt	< 20	< 20	< 20	< 20	< 20
C15 - C36	mg/kg dry wt	63	< 40	118	41	< 40
Total hydrocarbons (C7 - C36)	mg/kg dry wt	< 90	< 90	129	< 80	< 90

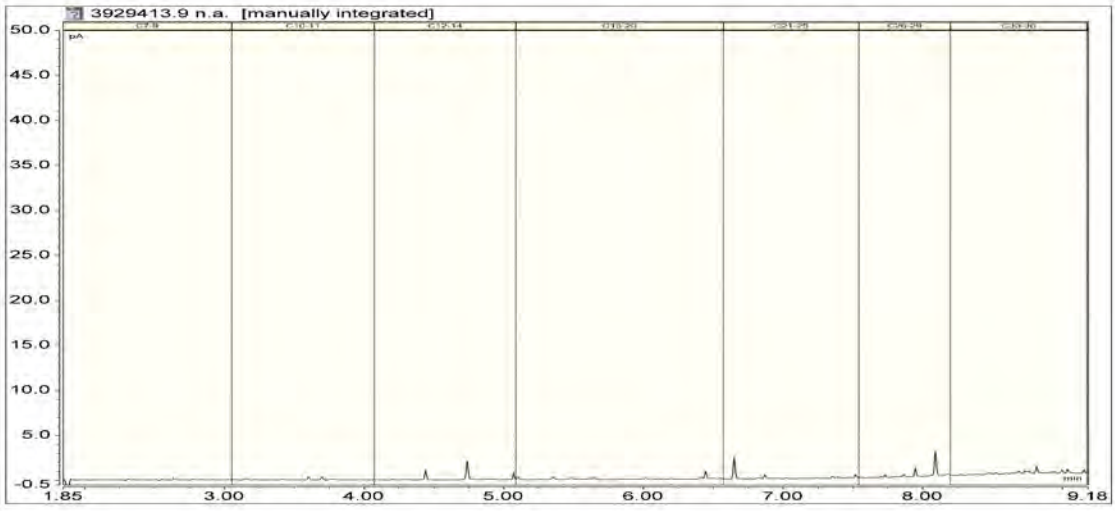
Sample Name:		MRS1_SS378_0.0 02-Jul-2025	MRS1_SS379_0.0 02-Jul-2025	MRS1_SS380_0.0 02-Jul-2025	MRS1_SS381_0.0 02-Jul-2025	MRS1_SS382_0.0 02-Jul-2025
Lab Number:		3929413.21	3929413.23	3929413.24	3929413.25	3929413.27
Individual Tests						
Dry Matter	g/100g as rcvd	69	71	62	64	67
Heavy Metals with Mercury, Screen Level						
Total Recoverable Arsenic	mg/kg dry wt	3	4	8	6	3
Total Recoverable Cadmium	mg/kg dry wt	0.26	< 0.10	0.22	< 0.10	0.39
Total Recoverable Chromium	mg/kg dry wt	13	13	24	16	16
Total Recoverable Copper	mg/kg dry wt	7	8	62	39	7
Total Recoverable Lead	mg/kg dry wt	17.7	22	106	33	13.4
Total Recoverable Mercury	mg/kg dry wt	< 0.10	< 0.10	0.10	0.11	< 0.10
Total Recoverable Nickel	mg/kg dry wt	4	4	23	17	5

Sample Type: Soil						
Sample Name:		MRS1_SS378_0.0 02-Jul-2025	MRS1_SS379_0.0 02-Jul-2025	MRS1_SS380_0.0 02-Jul-2025	MRS1_SS381_0.0 02-Jul-2025	MRS1_SS382_0.0 02-Jul-2025
Lab Number:		3929413.21	3929413.23	3929413.24	3929413.25	3929413.27
Heavy Metals with Mercury, Screen Level						
Total Recoverable Zinc	mg/kg dry wt	34	90	191	72	39
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Total of Reported PAHs in Soil	mg/kg dry wt	< 0.4	< 0.4	< 0.4	0.7	< 0.4
1-Methylnaphthalene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
2-Methylnaphthalene	mg/kg dry wt	< 0.014	< 0.03	< 0.016	< 0.03	< 0.03
Acenaphthylene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Acenaphthene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Anthracene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Benzo[a]anthracene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	0.058	< 0.015
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.014	0.019	< 0.016	0.060	< 0.015
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	< 0.034	< 0.033	< 0.038	0.094	< 0.035
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.034	< 0.033	< 0.038	0.092	< 0.035
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	< 0.014	0.024	0.018	0.078	< 0.015
Benzo[e]pyrene	mg/kg dry wt	< 0.014	0.014	< 0.016	0.038	< 0.015
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.014	0.017	< 0.016	0.038	< 0.015
Benzo[k]fluoranthene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	0.031	< 0.015
Chrysene	mg/kg dry wt	< 0.014	0.017	< 0.016	0.053	< 0.015
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Fluoranthene	mg/kg dry wt	< 0.014	0.039	0.017	0.125	< 0.015
Fluorene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.014	0.017	< 0.016	0.040	< 0.015
Naphthalene	mg/kg dry wt	< 0.07	< 0.07	< 0.08	< 0.08	< 0.08
Perylene	mg/kg dry wt	< 0.014	< 0.014	< 0.016	< 0.016	< 0.015
Phenanthrene	mg/kg dry wt	< 0.014	0.025	< 0.016	0.038	< 0.015
Pyrene	mg/kg dry wt	< 0.014	0.041	0.019	0.108	< 0.015
Total Petroleum Hydrocarbons in Soil						
C7 - C9	mg/kg dry wt	< 20	< 20	< 30	< 30	< 30
C10 - C14	mg/kg dry wt	< 20	< 20	< 20	< 20	< 20
C15 - C36	mg/kg dry wt	< 40	< 40	44	< 40	< 40
Total hydrocarbons (C7 - C36)	mg/kg dry wt	< 80	< 80	< 90	< 90	< 90

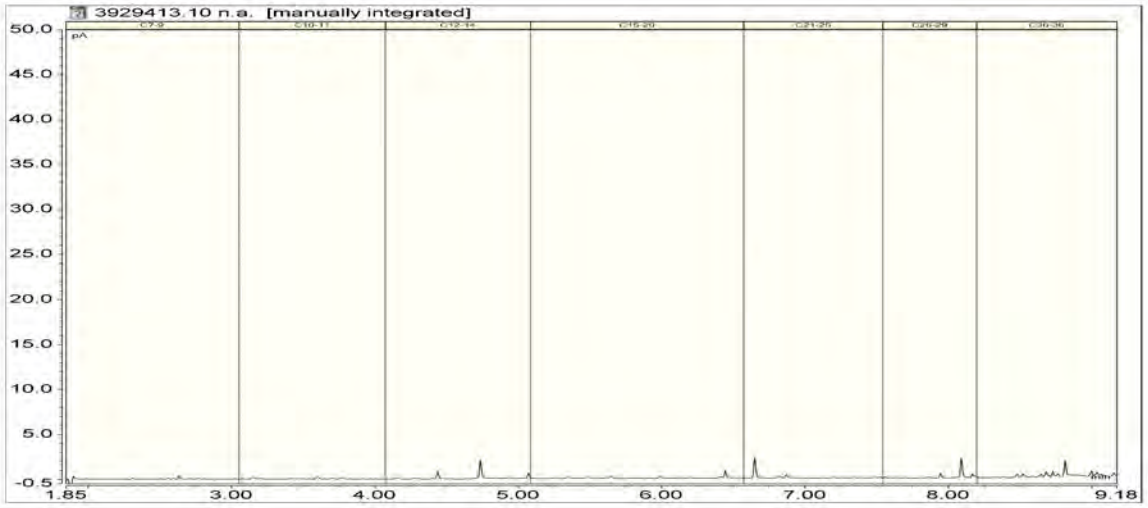
Sample Name:		MRS1_SS382_0.3 02-Jul-2025	MRS1_SS382_0.5 02-Jul-2025	MRS1_QA25 02-Jul-2025	MRS1_QA26 02-Jul-2025	MRS1_QA27 02-Jul-2025
Lab Number:		3929413.28	3929413.29	3929413.30	3929413.31	3929413.32
Individual Tests						
Dry Matter	g/100g as rcvd	76	78	65	69	74
Heavy Metals with Mercury, Screen Level						
Total Recoverable Arsenic	mg/kg dry wt	4	2	4	3	5
Total Recoverable Cadmium	mg/kg dry wt	0.25	< 0.10	0.16	0.40	0.28
Total Recoverable Chromium	mg/kg dry wt	21	17	16	19	37
Total Recoverable Copper	mg/kg dry wt	4	3	12	8	26
Total Recoverable Lead	mg/kg dry wt	9.9	7.3	23	14.0	63
Total Recoverable Mercury	mg/kg dry wt	0.13	0.14	0.10	0.10	0.10
Total Recoverable Nickel	mg/kg dry wt	5	4	6	5	18
Total Recoverable Zinc	mg/kg dry wt	25	13	45	44	118
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Total of Reported PAHs in Soil	mg/kg dry wt	< 0.4	< 0.3	0.6	< 0.4	< 0.4
1-Methylnaphthalene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
2-Methylnaphthalene	mg/kg dry wt	< 0.014	< 0.019	< 0.03	< 0.015	< 0.014
Acenaphthylene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Acenaphthene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Anthracene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Benzo[a]anthracene	mg/kg dry wt	< 0.014	< 0.013	0.044	< 0.015	< 0.014

Sample Type: Soil						
Sample Name:		MRS1_SS382_0.3 02-Jul-2025	MRS1_SS382_0.5 02-Jul-2025	MRS1_QA25 02-Jul-2025	MRS1_QA26 02-Jul-2025	MRS1_QA27 02-Jul-2025
Lab Number:		3929413.28	3929413.29	3929413.30	3929413.31	3929413.32
Polycyclic Aromatic Hydrocarbons Screening in Soil*						
Benzo[a]pyrene (BAP)	mg/kg dry wt	< 0.014	< 0.013	0.055	< 0.015	< 0.014
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	mg/kg dry wt	< 0.032	< 0.030	0.086	< 0.035	< 0.033
Benzo[a]pyrene Toxic Equivalence (TEF)*	mg/kg dry wt	< 0.032	< 0.030	0.086	< 0.034	< 0.032
Benzo[b]fluoranthene + Benzo[j]fluoranthene	mg/kg dry wt	< 0.014	< 0.013	0.073	< 0.015	< 0.014
Benzo[e]pyrene	mg/kg dry wt	< 0.014	< 0.013	0.036	< 0.015	< 0.014
Benzo[g,h,i]perylene	mg/kg dry wt	< 0.014	< 0.013	0.043	< 0.015	< 0.014
Benzo[k]fluoranthene	mg/kg dry wt	< 0.014	< 0.013	0.031	< 0.015	< 0.014
Chrysene	mg/kg dry wt	< 0.014	< 0.013	0.039	< 0.015	< 0.014
Dibenzo[a,h]anthracene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Fluoranthene	mg/kg dry wt	< 0.014	< 0.013	0.089	< 0.015	0.013
Fluorene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Indeno(1,2,3-c,d)pyrene	mg/kg dry wt	< 0.014	< 0.013	0.045	< 0.015	< 0.014
Naphthalene	mg/kg dry wt	< 0.07	< 0.07	< 0.08	< 0.08	< 0.07
Perylene	mg/kg dry wt	< 0.014	< 0.013	< 0.015	< 0.015	< 0.014
Phenanthrene	mg/kg dry wt	< 0.014	< 0.013	0.025	< 0.015	< 0.014
Pyrene	mg/kg dry wt	< 0.014	< 0.013	0.087	< 0.015	0.015
Total Petroleum Hydrocarbons in Soil						
C7 - C9	mg/kg dry wt	< 20	< 20	< 30	< 20	< 20
C10 - C14	mg/kg dry wt	< 20	< 20	< 20	< 20	< 20
C15 - C36	mg/kg dry wt	< 40	< 40	< 40	< 40	56
Total hydrocarbons (C7 - C36)	mg/kg dry wt	< 80	< 80	< 90	< 80	< 80

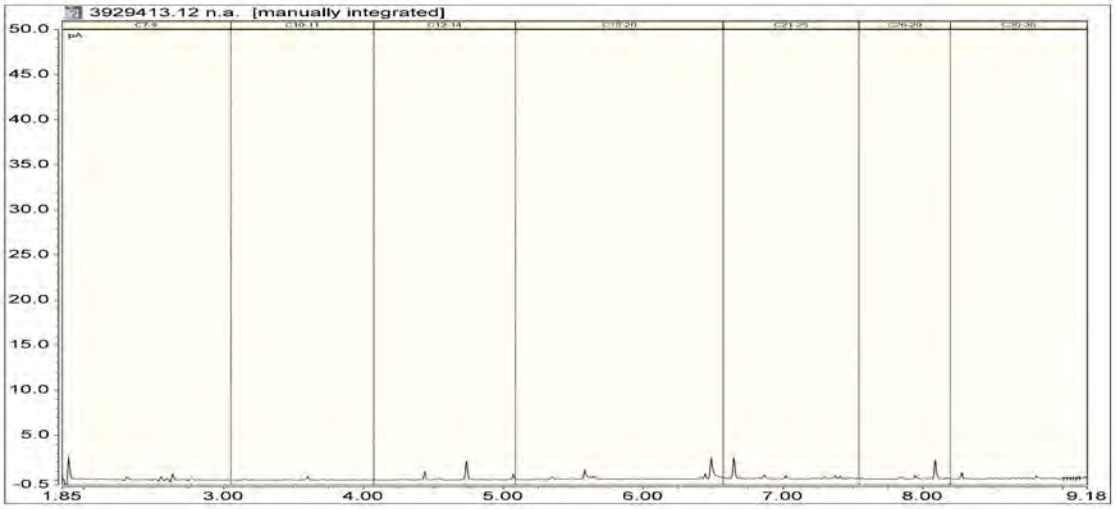
3929413.9
MRS1_SS369_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



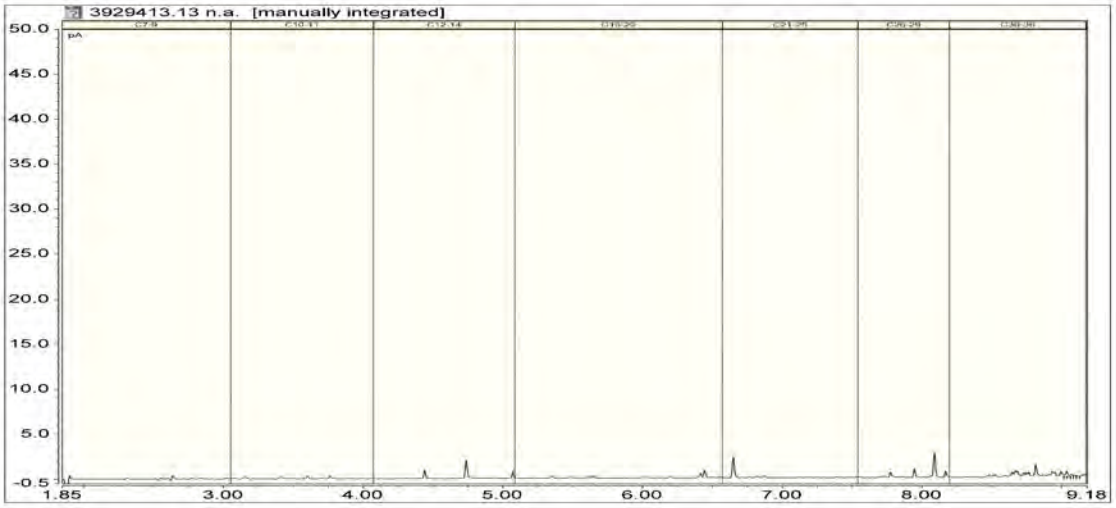
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MRS1_SS370_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



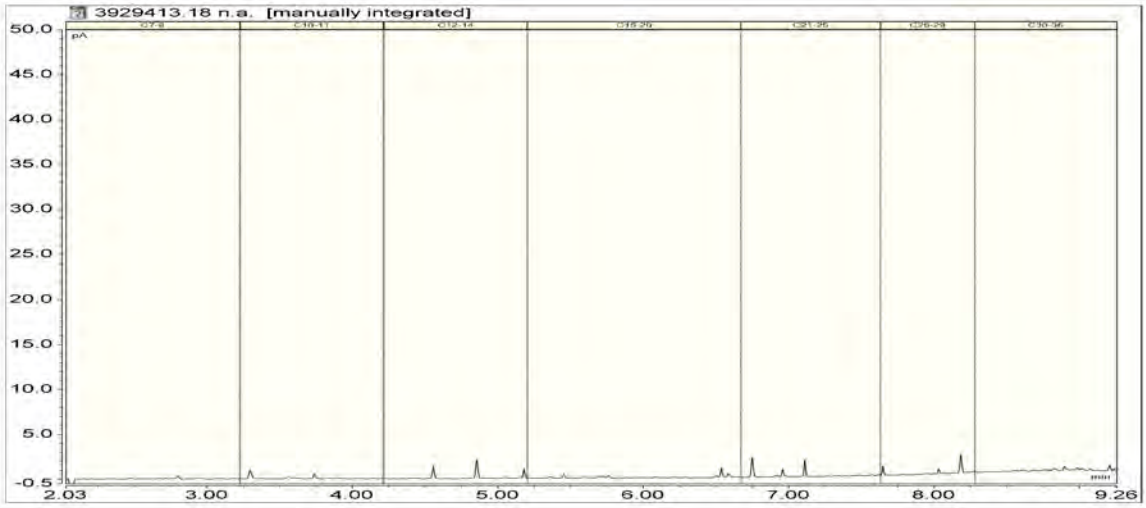
3929413.12
MRS1_SS372_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



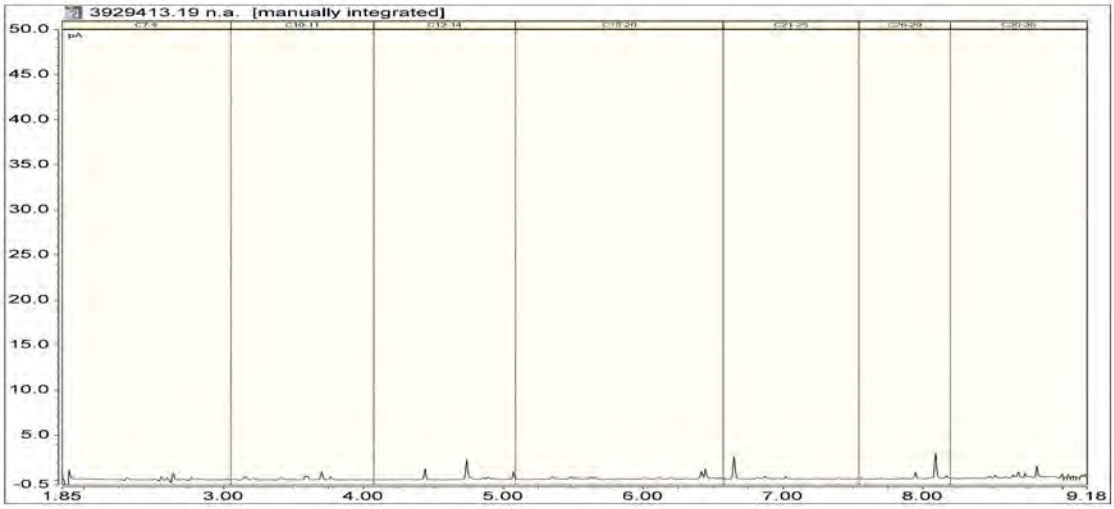
3929413.13
MRS1_SS373_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



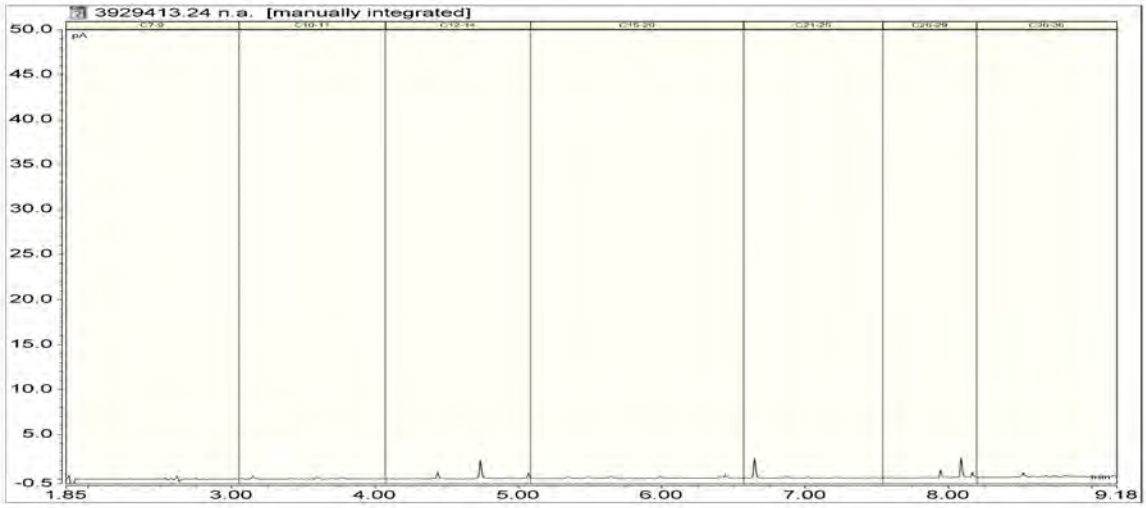
3929413.18
MRS1_SS375_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



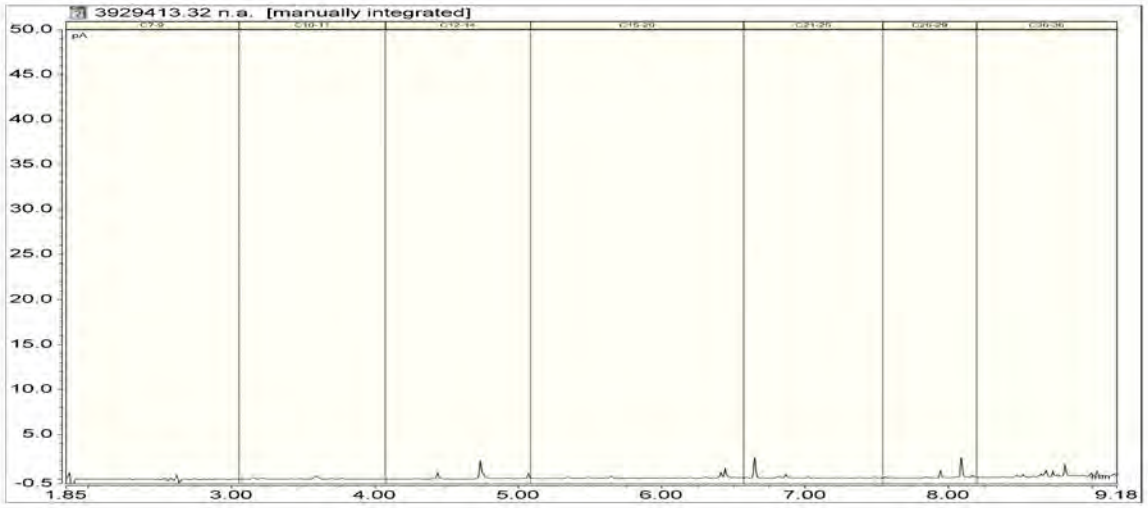
3929413.19
MRS1_SS376_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



3929413.24
MRS1_SS380_0.0 02-Jul-2025
Client Chromatogram for TPH by FID



3929413.32
MRS1_QA27 02-Jul-2025
Client Chromatogram for TPH by FID



Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Individual Tests			
Environmental Solids Sample Drying*	Air dried at 35°C Used for sample preparation. May contain a residual moisture content of 2-5%. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed).	-	1, 4-13, 16, 18-21, 23-25, 27-32
Total of Reported PAHs in Soil	Sonication extraction, GC-MS/MS analysis. In-house based on US EPA 8270.	0.03 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
Dry Matter	Dried at 103°C for 4-22hr (removes 3-5% more water than air dry) , gravimetry. (Free water removed before analysis, non-soil objects such as sticks, leaves, grass and stones also removed). US EPA 3550.	0.10 g/100g as rcvd	1, 4-13, 16, 18-21, 23-25, 27-32
Benzo[a]pyrene Potency Equivalency Factor (PEF) NES*	BaP Potency Equivalence calculated from; Benzo(a)anthracene x 0.1 + Benzo(b)fluoranthene x 0.1 + Benzo(j)fluoranthene x 0.1 + Benzo(k)fluoranthene x 0.1 + Benzo(a)pyrene x 1.0 + Chrysene x 0.01 + Dibenzo(a,h)anthracene x 1.0 + Fluoranthene x 0.01 + Indeno(1,2,3-c,d)pyrene x 0.1. Ministry for the Environment. 2011. Methodology for Deriving Standards for Contaminants in Soil to Protect Human Health. Wellington: Ministry for the Environment.	0.024 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
Benzo[a]pyrene Toxic Equivalence (TEF)*	Benzo[a]pyrene Toxic Equivalence (TEF) calculated from; Benzo[a]pyrene x 1.0 + Benzo(a)anthracene x 0.1 + Benzo(b) fluoranthene x 0.1 + Benzo(k)fluoranthene x 0.1 + Chrysene x 0.01 + Dibenzo(a,h)anthracene x 1.0 + Indeno(1,2,3-c,d)pyrene x 0.1. Guidelines for assessing and managing contaminated gasworks sites in New Zealand (GMG) (MfE, 1997).	0.024 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
TPH Oil Industry Profile + PAHscreen	Sonication extraction, GC-FID and GC-MS/MS analysis. Tested on as received sample. In-house based on US EPA 8015 and US EPA 8270.	0.010 - 70 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
Heavy Metals with Mercury, Screen Level	Dried sample, < 2mm fraction. Nitric/Hydrochloric acid digestion US EPA 200.2. Complies with NES Regulations. ICP-MS screen level, interference removal by Kinetic Energy Discrimination if required.	0.10 - 4 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
Total Petroleum Hydrocarbons in Soil			
Client Chromatogram for TPH by FID	Small peaks associated with QC compounds may be visible in chromatograms with low TPH concentrations. QC peaks are as follows: one peak in the C12 - 14 band, the C21 - 25 band and the C30 - 36 band. All QC peaks are corrected for in the reported TPH concentrations.	-	9-10, 12-13, 18-19, 24, 32

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
C7 - C9	Solvent extraction, GC-FID analysis. Tested on as received sample. In-house based on US EPA 8015.	20 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
C10 - C14	Solvent extraction, GC-FID analysis. Tested on as received sample. In-house based on US EPA 8015.	20 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
C15 - C36	Solvent extraction, GC-FID analysis. Tested on as received sample. In-house based on US EPA 8015.	40 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32
Total hydrocarbons (C7 - C36)	Calculation: Sum of carbon bands from C7 to C36. In-house based on US EPA 8015.	70 mg/kg dry wt	1, 4-13, 16, 18-21, 23-25, 27-32

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 03-Jul-2025 and 09-Jul-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

s9(2)(a)

Client Services Manager - Environmental

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

Job No: **390 1013**
Date Recv: 27-May-25 18:11

s9(2)(a)

Received by: s9(2)(a)

Quote No | **Lab Order No** ~~677555~~

Primary Contact	s9(2)(a)	310251
Submitted By		310251
Client Name	Beca Limited	76225
Address	PO Box 6345 Wellesley Street, Auckland 1141	
Phone	s9(2)(a) *Mobile*	
Email		
Charge To	Beca Limited	~~76225~~
Client Reference		
Additional Client Ref		
Order No	Supplied Items	

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☑ Email Primary Contact ☐ Email Submitter ☐ Email Client
☑ Email Other s9(2)(a)
☐ Other

Dates of testing are not routinely included in the Certificates of Analysis. Please inform the laboratory if you would like this information reported.

CHAIN OF CUSTODY RECORD

Sent to Hill Labs
☑ *Tick if you require COC to be emailed back*
Date & Time: 27/5/25
Name: s9(2)(a)
Signature:

Received at Hill Labs
Date & Time:
Name:
Signature:

Condition ☐ Room Temp ☐ Chilled ☐ Frozen
Temp: 7.6

☐ Sample & Analysis details checked
Signature:

ADDITIONAL INFORMATION / KNOWN HAZARDS

Asbestos P/A to proceed to semi-quant analysis if asbestos detected
Quote Number 138144

Priority ☐ Low ☐ Normal ☑ High
☐ **Urgent** (ASAP, *extra charge applies, please contact lab first*)

Requested Reporting Date:

Quoted Sample Types

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
1	MRS1_SS01-0.0 ~~@MRS4_SS01~~	27/5/25	Soils	HM7, Asbestos P/A
2	MRS1_SS01-0.3			Hold Cold
3	MRS1_SS01-0.5			" "
4	MRS1_SS02-0.0			HM
5	MRS1_SS02-0.3			Hold Cold
6	MRS1_SS02_0.5			" "
7	MRS1_SS02_0.0			HM7, Asbestos PA
8	MRS1_SS03_0.3			Hold Cold
9	MRS1_SS03_0.5			" "

No.	Sample Name	Sample Date/Time	Sample Type	Tests Required
10	MRS1_SS04_0.0	25-05-25	Soils	HM7, Asbestos PA
11	MRS1_SS04_0.3			Hold cold
12	MRS1_SS04_0.5			" "
13	MRS1_SS05_0.0			HM7, Asbestos PA
14	MRS1_SS05_0.3			Hold cold
15	MRS1_SS05_0.5			" "
16	MRS1_SS06_0.0			HM7, Asbesto PA
17	MRS1_SS06_0.3			Hold cold
18	MRS1_SS06_0.5			" "
19	MRS1_SS07_0.0			HM7, Asbestos PA
20	MRS1_SS07_0.3			Hold cold
21	MRS1_SS07_0.5			~~HM7~~ " "
22	MRS1_SS08_0.0			HM7, Abestos PA
23	MRS1_SS09_0.0			HM7, Asbestos PA
24	MRS1_SS09_0.3			Hold cold
25	MRS1_SS09_0.5			" "
26	MRS1_SS10_0.0			HM7, Asbestos PA
27	MRS1_SS10_0.3			Hold cold
28	MRS1_SS10_0.5			" "
29	MRS1_SS11_0.0			HM7, Asbestos PA
30	MRS1_SS11_0.3			Hold cold
31	MRS1_SS11_0.5			" "
32	MRS1_SS12_0.0			HM7, Asbestos PA
33	MRS1_SS12_0.3			Hold cold
34	MRS1_SS12_0.5			" "

Sample name	Sample Date	Sample Type	Test Required
MRS1_SS03_0.0	27/5/25	Soil	HM7, Asbestos PA
MRS1_SS13_0.3			Hold Cold
MRS1_SS13_0.5			" "
MRS1_SS14_0.0			HM7, Asbesto PA
MRS1_SS14_0.3			Hold Cold
MRS1_SS14_0.5			" "
MRS1_SS16_0.0			HM7, Asbestos PA
MRS1_SS16_0.3			Hold Cold
MRS1_SS16_0.5			" "
MRS1_SS17_0.0			HM7, Asbestos PA
MRS1_SS17_0.3			Cold Cold
MRS1_SS17_0.5			" "
MRS1_SS18_0.0			HM7, Asbestos PA
MRS1_SS18_0.3			Hold cold
MRS1_SS18_0.5			" "
MRS1_SS19_0.0			HM7, Asbestos PA
MRS1_SS19_0.3			Hold Cold
MRS1_SS19_0.5			" "
MRS1_SS20_0.0			HM7, Asbestos PA
MRS1_SS20_0.3			Hold Cold
MRS1_SS20_0.5			" "
MRS1_SS21_0.0			HM7, Asbestos PA
MRS1_SS21_0.3			Hold Cold
MRS1_SS21_0.5			" "

Sample Name	Sample Date	Sample type	Tests requd.
MRS1_SS38_0.0	25/5/25	soils	HM7, Asbestos PA
MRS1_SS-38_0.3			Hold Cold
MRS1_SS38_0.5			" "
MRS1_SS39_0.0			HM7, Asbestos PA
MRS1_SS39_0.3			Hold Cold
MRS1_SS39_0.5			" "
MRS1_SS40_0.0			HM7, Asbestos PA
MRS1_SS40_0.3			Hold Cold
MRS1_SS40_0.5			" "
MRS1_SS44_0.0			HM7, Asbestos PA
MRS1_SS44_0.3			Hold Cold
MRS1_SS44_0.5			" "
MRS1_SS45_0.0			HM7, Asbestos PA
MRS1_SS45_0.3			Hold Cold
MRS1_SS45_0.5			" "
MRS1_SS46_0.0			HM7, Asbestos PA
MRS1_SS46_0.3			Hold Cold
MRS1_SS46_0.5			" "
MRS1_SS47_0.0			HM7, Asbestos PA
MRS1_SS47_0.3			Hold Cold
MRS1_SS47_0.5			" "
QA01			HM7, ~~Asbestos PA~~
QA02			~~Hold Cold~~
QA03			" "

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3901013
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	28-May-2025 12:25 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	03-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS01 0 0 27 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS02 0 0 27 May 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS03_0.0 27-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS04_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS05 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS06 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS07_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS08_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS09 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS10 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS11_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS12_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS13_0.0 27-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS14 0 0 27 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1 SS16 0 0 27 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS17_0.0 27-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1_SS18_0.0 27-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS19 0 0 27 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS20 0 0 27 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS21_0.0 27-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS38_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1 SS39 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1 SS40 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1_SS44_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
25	MRS1_SS45_0.0 25-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
26	MRS1 SS46 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1 SS47 0 0 25 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 27
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 27
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-27
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-27
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-27
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 27
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-27

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 27

HillLabs

ANALYSIS REQUEST

Quote No 138144

Primary Contac [redacted]

Submitted By [redacted]

Client Name Beca Ltd

Address

Postcode

Phone Mobile [redacted]

Email [redacted]

Charge To Beca Ltd

Client Reference ~~333~~ 3011550/2001/2.1

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☑ Email Other [redacted]

☐ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

[redacted]

Job No: 390 2932

Date Recv: 29-May-25 11:56

Received by: [redacted]

3139029320

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 28/5/25 6:30

Name: [redacted]

Signature: [redacted]

☑ Tick if you require COC to be emailed back

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please infon retained and analysed at the site of

Received at Hill Laboratories

Date & T

Name:

Signatun

Temperature On Arriva

8.9 °C

Temperature was measured on one o more arbitrarily chosen samples in this batch

ADDITIONAL INFORMATION

PA to NZG

Also report to Beca Es Dat

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS22_0.0	Soil		28/5/25	HM7 PA to NZG
2	MRS1_SS22_0.3				Hold Cold
3	MRS1_SS22_0.5				" "
4	RRS1_SS23_0.0				HM7, PA to NZG.
5	MRS1_SS23_0.3				HOLD COLD
6	MRS1_SS23_0.5				" "
7	MRS1_SS24_0.0				HM7, PA to NZG
8	MRS1_SS24_0.3				HOLD COLD
9	MRS1_SS24_0.5				" "
10	MRS1_SS25_0.0				HM7, PA to NZG
11	MRS1_SS25_0.3				HOLD COLD
12	MRS1_SS25_0.5				" "
13	MRS1_SS26_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1 - SS26 - 0.3	Soil		29/5/25	HOLD COLD
15	MRS1 - SS26 - 0.5				" "
16	MRS1 _ SS27 _ 0.0				HM7, Asbestos PA
17	MRS1 _ SS27 _ 0.3				HOLD COLD
18	MRS1 - SS27 _ 0.5				" "
19	MRS1 - SS28 _ 0.0				HM7, Asbestos PA
20	MRS1 _ SS28 _ 0.3				HOLD Cold
21	MRS1 _ SS28 _ 0.5				" "
22	MRS1 - SS29 _ 0.0				HM7, Asbestos PA
23	MRS1 _ SS30 - 0.0				HM7, Asbestos PA ~~HOLD Cold~~
24	MRS1 - SS30 - 0.3				Hold Cold
25	MRS1 _ SS30 _ 0.5				" "
26	MRS1 - SS31 _ 0.0				HM7, Asbestos PA ~~HOLD COLD~~
27	MRS1 - SS31 _ 0.3				Hold Cold
28	MRS1 _ SS31 - 0.5				" "
29	MRS1 - SS32 _ 0.0				HM7, Asbestos PA
30	MRS1 _ SS32 _ 0.3				Hold Cold
31	MRS1 _ SS32 - 0.5				" "
32	MRS1 _ SS33 _ 0.0				HM7, Asbestos PA
33	MRS1 _ SS33 _ 0.3				HM7, Asbestos PA
34	MRS1 _ SS33 _ 0.5				" "
35	MRS1 _ SS34 _ 0.0				HM7, Asbestos PA
36	MRS1 _ SS34 _ 0.3				HOLD COLD ~~HM7, Asbestos PA~~
37	MRS1 _ SS34 _ 0.5				HOLD COLD
38	MRS1 _ SS35 _ 0.0				Hold Cold
39	MRS1 _ SS36 _ 0.0				HM7, Asbestos PA
40	MRS1 _ SS36 _ 0.3				HOLD COLD
41	MRS1 _ SS36 - 0.5				" "

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI - SS37 - 0.0	Soil		28/5/25	HM7, PA to N2G
15	MRSI - SS37 - 0.3				Hold Cold
16	MRSI - SS37 - 0.5				" "
17	MRSI - SS48 - 0.0				HM7, PA to N2G
18	MRSI - SS48 - 0.3				Hold Cold
19	MRSI - SS48 - 0.5				" "
20	MRSI - SS49 - 0.0				HM7, PA to N2G
21	MRSI - SS49 - 0.3				Hold Cold
22	MRSI - SS49 - 0.5				" "
23	MRSI - SS50 - 0.0				HM7, PA to N2G
24	MRSI - SS50 - 0.3				Hold Cold
25	MRSI - SS50 - 0.5				" "
26	MRSI - SS51 - 0.0				HM7, PA to N2G
27	MRSI - SS51 - 0.3				Hold Cold
28	MRSI - SS51 - 0.5				" "
29	MRSI - SS52 - 0.0				HM7, PA to N2G
30	MRSI - SS52 - 0.3				Hold Cold
31	MRSI - SS52 - 0.5				" "
32	MRSI - SS53 - 0.0				HM7, PA to N2G
33	MRSI - SS53 - 0.0				" "
34	MRSI - SS53 - 0.3				Hold Cold
35	MRSI - SS54 - 0.5				" "
36	MRSI - SS55 - 0.0				HM7, PA to N2G
37	MRSI - SS55 - 0.3				Hold Cold
38	MRSI - SS55 - 0.5				" "
39	MRSI - SS56 - 0.0				HM7, PA to N2G
40	MRSI - SS56 - 0.3				Hold Cold
41	MRSI - SS56 - 0.5				" "

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS57_0.0	Soil		28/5/25	HM7, PA to N2G
15	MRSI-SS57-0.3				Hold Cold
16	MRSI_SS57_0.5				" "
17	MRSI-SS58-0.0				HM7, PA to N2G
18	MRSI-SS58-0.3				HOLD COLL
19	MRSI-SS58_0.5				" "
20	MRSI_SS59_0.0				HM7, PA to N2G
21	MRSI-SS59_0.3				Hold Cold
22	MRSI_SS59-0.5				" "
23	MRSI-SS60_00				HM7, PA to N2G
24	MRSI_SS60-0.3				Hold Cold
25	MRSI_SS61_0.0				HM7, PA to N2G
26	MRSI_SS61-0.3				HOLD Cold
27	MRSI_SS61_0.5				" "
28	MRSI_SS62-0.0				HM7, PA to N2G
29	MRSI_SS62_0.3				HOLD Cold
30	MRSI_SS62_0.5				" "
31	MRSI_SS63_0.0				HM7, PA to N2G
32	MRSI_SS63_0.3				HOLD Cold
33	MRSI_SS63_0.5				" "
34	MRSI_QA04				HM7
35	MRSI_QA05				" "
36	MRSI_QA06				" "
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3902932
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	29-May-2025 1:39 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	03-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS22_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS23 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS24 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS25_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS26_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS27 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS28 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS29_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS30 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS31 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS32_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS33_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS34 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS35 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Hold
15	MRS1_SS36_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1_SS37_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
17	MRS1_SS48_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS49 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS50 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS51_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS52_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1 SS53 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1 SS54 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1_SS55_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
25	MRS1_SS56_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
26	MRS1 SS57 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1 SS58 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
28	MRS1_SS59_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
29	MRS1_SS60_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
30	MRS1 SS61 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
31	MRS1 SS62 0 0 28 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
32	MRS1_SS63_0.0 28-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 13, 15 32
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 13, 15 32
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-13, 15-32

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 13, 15 32
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1 13, 15 32
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 13, 15 32
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-13, 15-32
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 13, 15 32

1/4

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **390 3445** Date Recv: 29-May-25 17:45

Received by: s9(2)(a)

3139034458

Quote No 138144

Primary Contac s9(2)(a)

Submitted By

Client Name Beca Ltd

Address

Postcode

Phone *Mobile*

Email

Charge To Beca Ltd

Client Reference 3611550 / 200 / 2.1

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☐ Email Other s9(2)(a)

☐ Other

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 29/5/25 6:30

Name: s9(2)(a)

☐ *Tick if you require COC to be emailed back*

Signature: s9(2)(a)

Samples will be processed at a H capability and capacity. Please in retained and analysed at the site

Received at Hill Laboratories

Date

Nam

Signa

Temperature On Arrival

8.3 °C

Temperature was measured on one o more arbitrarily chosen samples in this batch

ADDITIONAL INFORMATION

Please email Beca Gsdat R

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRSI_SS64_0.0	SOIL		29/5/25	HM7, PA to NZG
2	MRSI_SS64_0.3				Hold Cold
3	MRSI_SS64_0.5				" "
4	MRSI_SS65_0.0				HM7, PA to NZG
5	MRSI_SS65_0.3				Hold Cold
6	MRSI_SS65_0.5				" "
7	MRSI_SS66_0.0				HM7, PA to NZG
8	MRSI_SS66_0.3				Hold Cold
9	MRSI_SS66_0.5				" "
10	MRSI_SS67_0.0				HM7, PA to NZG
11	MRSI_SS67_0.3				Hold Cold
12	MRSI_SS67_0.5				" "
13	MRSI_SS68_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS68_0.3	Soil		27/5/25	Hold cold
15	MRSI_SS68_0.5	"		"	"
16	MRSI_SS69_0.0				HM7, PA to NZG
17	MRSI_SS69_0.3				Hold Cold
18	MRSI_SS69_0.5				"
19	MRSI_SS70_0.0				HM7, PA to NZG
20	MRSI_SS70_0.3				Hold Cold
21	MRSI_SS70_0.5				"
22	MRSI_SS71_0.0				HM7, PA to NZG
23	MRSI_SS71_0.3				Hold Cold
24	MRSI_SS71_0.5				"
25	MRSI_SS72_0.0				HM7, PA to NZG
26	MRSI_SS72_0.3				Hold Cold
27	MRSI_SS72_0.5				"
28	MRSI_SS73_0.0				HM7, PA to NZG
29	MRSI_SS73_0.3				Hold Cold
30	MRSI_SS73_0.5				"
31	MRSI_SS74_0.0				HM7, PA to NZG
32	MRSI_SS74_0.3				Hold Cold
33	MRSI_SS74_0.5				"
34	MRSI_SS75_0.0				HM7, PA to NZG
35	MRSI_SS75_0.3				Hold Cold
36	MRSI_SS75_0.5				"
37	MRSI_SS76_0.0				HM7, PA to NZG
38	MRSI_SS76_0.3				Hold Cold
39	MRSI_SS76_0.5				"
40	MRSI_SS77_0.0				HM7, PA to NZG
41	MRSI_SS77_0.3				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI-SS77_0.5	Soil		29/5/25	Hold Cold
15	MRSI-SS76_0.0				HM7, PA to NZG
16	MRSI-SS78-0.3				Hold Cold
17	MRSI_SS78-0.5				" "
18	MRSI-SS79-0.0				HM7, PA to NZG
19	MRSI-SS79_0.3				Hold Cold
20	MRSI_SS79_0.5				" "
21	MRSI_SS80-0.0				HM7, PA to NZG
22	MRSI_SS80-0.3				Hold Cold
23	MRSI_SS80-0.5				" "
24	MRSI_SS81-0.0				HM7, PA to NZG
25	MRSI_SS81-0.3				Hold Cold
26	MRSI_SS81-0.5				" "
27	MRSI-SS82-0.0				HM7, PA to NZG
28	MRSI_SS82_0.3				Hold Cold
29	MRSI_SS82-0.5				" "
30	MRSI-SS84-0.0				HM7, PA to NZG
31	MRSI-SS84-0.3				Hold Cold
32	MRSI-SS84_0.5				" "
33	MRSI_SS85_0.0				HM7, PA to NZG
34	MRSI_SS85_0.3				Hold Cold
35	MRSI_SS85-0.5				" "
36	MRSI_SS86_0.0				HM7, PA to NZG
37	MRSI_SS86_0.3				Hold Cold
38	MRSI_SS86_0.5				" "
39	MRSI-SS87_0.0				HM7, PA to NZG
40	MRSI-SS87_0.3				Hold Cold
41	MRSI_SS87_0.5				" "

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_~~SS78~~ SS88_0.0	SOIL		29/5/25	HM7, PA to NZG
15	MRSI_SS89_0.0				" "
16	MRSI_SS89_0.3				Hold Cold
17	MRSI_SS89_0.5				" "
18	MRSI_SS90_0.0				HM7, PA to NZG
19	MRSI_SS90_0.3				Hold Cold
20	MRSI_SS91_0.0				HM7, PA to NZG
21	MRSI_SS91_0.3				Hold Cold
22	MRSI_SS91_0.5				~~PA~~ " "
23	MRSI_SS92_0.0				HM7, PA to NZG
24	MRSI_SS92_0.3				Hold Cold
25	MRSI_SS92_0.5				" "
26	MRSI_QA01				HM7, ~~PA to NZ~~
27	MRSI_QA08				HM7
28					
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3903445
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	30-May-2025 11:32 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 29/05/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	06-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS87_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS88 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS89 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS90_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS91_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS92 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS64 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS65_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS66 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS67 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS68_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS69_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS70 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS71 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS72_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS73_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS74 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS75 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1_SS76_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS77_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1 SS78 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1 SS79 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1_SS80_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1_SS81_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
25	MRS1 SS82 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
26	MRS1 SS84 0 0 29 May 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1_SS85_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
28	MRS1_SS86_0.0 29-May-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-28
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 28
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-28
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-28
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1 28
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 28
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 28
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28

Hill Labs

ANALYSIS REQUEST

Quote No 138144

Primary Contact s9(2)(a)

Submitted By

Client Name Beca Ltd

Address

Postcode

Phone *Mobile*

Email s9(2)(a)

Charge To Beca Ltd

Client Reference 3611550 / 200 / 2.1

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ *Email Primary Contact* ☐ *Email Submitter* ☐ *Email Client*

☑ *Email Other* s9(2)(a)

☐ *Other*

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

s9(2)(a)

Job No: **390 7095** Date Recv: 03-Jun-25 16:48

Received by: s9(2)(a)

3139070959

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 3/6/25 5pm

Name:

☐ *Tick if you require COC to be emailed back*

Signature: s9(2)(a)

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform [illegible] retained and analysed at the site o[illegible]

Received at Hill Laboratories

Date &

Name:

Signatu[illegible]

Temperature On Arrival

7.1 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch

Priority ☐ Low ☒ Normal ☐ High

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

ADDITIONAL INFORMATION

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1 - SS93 - 0.0	Soil		3/6/25	HM7, PA to NZG
2	MRS1 - SS93 - 0.3				Hold Cold
3	MRS1 - SS93 - 0.5				" "
4	MRS1 - SS94 - 0.0				HM7, PA to NZG
5	MRS1 - SS94 - 0.3				Hold Cold
6	MRS1 - SS94 - 0.5				" "
7	MRS1 - SS96 - 0.0				HM7, PA to NZG
8	MRS1 - SS96 - 0.3				Hold Cold
9	MRS1 - SS96 - 0.5				" "
10	MRS1 - SS97 - 0.0				HM7, PA to NZG
11	MRS1 - SS97 - 0.3				Hold Cold
12	MRS1 - SS97 - 0.5				" "
13	MRS1 - SS98 - 0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS98_0.3	Soil		3/6/25	Hold Old
15	MRS1_SS98_0.5				" "
16	MRS1_SS99_0.0				HM7, PA to NZG
17	MRS1_SS99_0.3				Hold Old
18	MRS1_SS99_0.5				" "
19	MRS1_SS100_0.0				HM7, PA to NZG
20	MRS1_SS100_0.3				Hold Old
21	MRS1_SS100_0.5				" "
22	MRS1_SS101_0.0				HM7, PA to NZG
23	MRS1_SS101_0.3				Hold Old
24	MRS1_SS101_0.5				" "
25	MRS1_SS102_0.0				HM7, PA to NZG
26	MRS1_SS102_0.3				Hold Old
27	MRS1_SS102_0.5				" "
28	MRS1_SS103_0.0				HM7, PA to NZG
29	MRS1_SS103_0.3				Hold Old
30	MRS1_SS103_0.5				" "
31	MRS1_SS105_0.0				HM7, PA to NZG
32	MRS1_SS105_0.3				Hold Old
33	MRS1_SS105_0.5				" "
34	MRS1_SS106_0.0				HM7, PA to NZG
35	MRS1_SS106_0.3				Hold Old
36	MRS1_SS106_0.5				" "
37	MRS1_SS107_0.0				HM7, PA to NZG
38	MRS1_SS107_0.3				Hold Old
39	MRS1_SS107_0.5				" "
40	MRS1_SS108_0.0				HM7, PA to NZG
41	MRS1_SS108_0.3				Hold Old

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS108-0.5	Soil		3/6/25	Hold Cld
15	MRS1_SS109_0.0				HM7, PA + NZG
16	MRS1_SS109_0.3				Hold Cld
17	MRS1_SS109_0.5				" "
18	MRS1_SS112_0.0				HM7, PA + NZG
19	MRS1_SS112_0.3				Hold Cld
20	MRS1_SS112_0.5				" "
21	MRS1_SS113_0.0				HM7, PA + NZG
22	MRS1_SS113_0.3				Hold Cld
23	MRS1_SS113_0.5				" "
24	MRS1_SS114_0.0				HM7, PA + NZG
25	MRS1_SS114_0.3				Hold Cld
26	MRS1_SS114_0.5				" "
27	MRS1_SS115_0.0				HM7, PA + NZG
28	MRS1_SS115_0.3				Hold Cld
29	MRS1_SS115_0.5				" "
30	MRS1_SS116_0.0				HM7, PA + NZG
31	MRS1_SS116_0.3				Hold Cld
32	MRS1_SS116_0.5				" "
33	MRS1_QA09				HM7
34	MRS1_QA10				HM7
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3907095
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	04-Jun-2025 1:35 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 03/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	09-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS100 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS101_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS102_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS103 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS105 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS106_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS107_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS108 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS109 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS112_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS113_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS114 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS115_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS116_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 14
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-14
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-14
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 14
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 14
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 14
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 14
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-14

HillLabs

ANALYSIS REQUEST

Quote No 138144

Primary Contac s9(2)(a)

Submitted By

Client Name Beca

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To Beca Ltd,

Client Reference 3011550 / 200 / 2.1

Order No

R J Hill Laboratories Limited
Ground Floor, 28 Heather Stre
Parnell
Auckland 1052, New Zealand

Job No: 390 9517

Date Recv: 05-Jun-25 17:00

s9(2)(a)

Received by: s9(2)(a)

3139095178

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 5/6/25 Spm

Name: s9(2)(a)

☑ Tick if you require COC to be emailed back

Signature

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform the lab if you wish samples to be retained and analysed at the site

Received at Hill Laboratories

Date

Nam

Signa

Temperature On Arrival

14.0 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ Email Primary Contact ☑ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☑ Other

ADDITIONAL INFORMATION

Email results to Beca ESDAT

Priority ☐ Low

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS135_0.0	Soil		5/6/25	HM7, PA to NZG
2	MRS1_SS136_0.0				
3	MRS2_SS137_0.0				
4	MRS1_SS138_0.0				
5	MRS1_SS139_0.0				
6	MRS1_SS139_0.3				Hold Cold
7	MRS1_SS139_0.5				" "
8	MRS1_SS139_1.0				" "
9	MRS1_SS140_0.0				HM7, PA to NZG
10	MRS1_SS140_0.3				Hold Cold
11	MRS1_SS140_0.5				" "
12	MRS2_SS140_1.0				" "
13	MRS1_SS141_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS141_0.3	Soil		5/6/25	Hold Old
15	MRS1_SS141_0.5				" "
16	MRS1_SS141_1.0				" "
17	MRS1_SS142_0.0				HM7, PA to N2G
18	MRS1_SS142_0.3				Hold Old
19	MRS1_SS142_0.5				" "
20	MRS1_SS142_1.0				" "
21	MRS1_SS143_0.0				HM7, PA to N2G
22	MRS1_SS143_0.3				Hold Old
23	MRS1_SS143_0.5				" "
24	MRS1_SS143_1.0				" "
25	MRS1_SS167_0.0				HM7, PA to N2G
26	MRS1_SS167_0.3				Hold Old
27	MRS1_SS167_0.5				" "
28	MRS1_SS168_0.0				HM7, PA to N2G
29	MRS1_SS168_0.3				Hold Old
30	MRS1_SS168_0.5				" "
31	MRS1_SS169_0.0				HM7, PA to N2G
32	MRS1_SS169_0.3				Hold Old
33	MRS1_SS169_0.5				" "
34	MRS1_SS170_0.0				HM7, PA to N2G
35	MRS1_SS170_0.3				Hold Old
36	MRS1_SS170_0.5				" "
37	MRS1_SS171_0.0				HM7, PA to N2G
38	MRS1_SS171_0.3				Hold Old
39	MRS1_SS171_0.5				" "
40	MRS1_SS172_0.0				HM7, PA to N2G
41	MRS1_SS172_0.3				Hold Old

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS172_0.5	Soil		5/6/25	Hold Cold
15	MRS1_SS172_0.0				HM7, PA + N2G
16	MRS1_SS173_0.3				Hold Cold
17	MRS1_SS173_0.5				" "
18	MRS1-QA12				HM7
19	MRS1_QA13				"
20	MRS1_QA14				"
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26					
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R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3909517
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	06-Jun-2025 12:29 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	13-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS135_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS136 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS137 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS138_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS139_0.0 05-Jun-2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS140 0 0 05 Jun 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS141 0 0 05 Jun 2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS142_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS143 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS167 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS168_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS169_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS170 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS171 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS172_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS173_0.0 05-Jun-2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS174 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS175 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1 18
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-18
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 18
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 18
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 18

HillLabs

ANALYSIS REQUEST

Quote No 138144

Primary Conta s9(2)(a)

Submitted By

Client Name Beca

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To Beca Ltd,

Client Reference 3011550 / 200 / 2.1

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☑ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☑ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Stre
Parnell
Auckland 1052, New Zealand

Job No: 390 9517

Date Recv: 05-Jun-25 17:00

s9(2)(a)

Received by: s9(2)(a)

3139095178

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories Date & Time: 5/6/25 Spm

☑ Tick if you require COC to be emailed back

Name: s9(2)(a)

Signatur

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform the lab if you wish samples to be retained and analysed at the site

Received at Hill Laboratories Date

Nam

Signa

Temperature On Arrival

14.0 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

ADDITIONAL INFORMATION

Email results to Beca ESDAT

Priority ☐ Low

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS135_0.0	Soil		5/6/25	HM7, PA to NZG
2	MRS1_SS136_0.0				
3	MRS2_SS137_0.0				
4	MRS1_SS138_0.0				
5	MRS1_SS139_0.0				
6	MRS1_SS139_0.3				Hold Cold
7	MRS1_SS139_0.5				" "
8	MRS1_SS139_1.0				" "
9	MRS1_SS140_0.0				HM7, PA to NZG
10	MRS1_SS140_0.3				Hold Cold
11	MRS1_SS140_0.5				" "
12	MRS2_SS140_1.0				" "
13	MRS1_SS141_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS141_0.3	Soil		5/6/25	Hold Old
15	MRS1_SS141_0.5				" "
16	MRS1_SS141_1.0				" "
17	MRS1_SS142_0.0				HM7, PA to N2G
18	MRS1_SS142_0.3				Hold Old
19	MRS1_SS142_0.5				" "
20	MRS1_SS142_1.0				" "
21	MRS1_SS143_0.0				HM7, PA to N2G
22	MRS1_SS143_0.3				Hold Old
23	MRS1_SS143_0.5				" "
24	MRS1_SS143_1.0				" "
25	MRS1_SS167_0.0				HM7, PA to N2G
26	MRS1_SS167_0.3				Hold Old
27	MRS1_SS167_0.5				" "
28	MRS1_SS168_0.0				HM7, PA to N2G
29	MRS1_SS168_0.3				Hold Old
30	MRS1_SS168_0.5				" "
31	MRS1_SS169_0.0				HM7, PA to N2G
32	MRS1_SS169_0.3				Hold Old
33	MRS1_SS169_0.5				" "
34	MRS1_SS170_0.0				HM7, PA to N2G
35	MRS1_SS170_0.3				Hold Old
36	MRS1_SS170_0.5				" "
37	MRS1_SS171_0.0				HM7, PA to N2G
38	MRS1_SS171_0.3				Hold Old
39	MRS1_SS171_0.5				" "
40	MRS1_SS172_0.0				HM7, PA to N2G
41	MRS1_SS172_0.3				Hold Old

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS172_0.5	Soil		5/6/25	Hold Cold
15	MRS1_SS172_0.0				HM7, PA + N2G
16	MRS1_SS173_0.3				Hold Cold
17	MRS1_SS173_0.5				" "
18	MRS1-QA12				HM7
19	MRS1_QA13				"
20	MRS1_QA14				"
21					
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26					
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R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3909517
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	06-Jun-2025 12:29 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	13-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS135_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS136 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS137 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS138_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS139_0.0 05-Jun-2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS140 0 0 05 Jun 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS141 0 0 05 Jun 2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS142_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS143 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS167 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS168_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS169_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS170 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS171 0 0 05 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS172_0.0 05-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS173_0.0 05-Jun-2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS174 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS175 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1 18
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-18
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 18
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 18
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 18

Hill Labs

ANALYSIS REQUEST

Quote No 138144

Primary Contac s9(2)(a)

Submitted By

Client Name Beca Ltd

Address

Postcode

Phone *Mobile*

Email s9(2)(a)

Charge To Beca Ltd

Client Reference 3611550 / 200 / 2.1

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ *Email Primary Contact* ☐ *Email Submitter* ☐ *Email Client*

☑ *Email Other* s9(2)(a)

☐ *Other*

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

s9(2)(a)

Job No: **390 7095**

Date Recv: 03-Jun-25 16:48

Received by: s9(2)(a)

3139070959

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 3/6/25 5pm

Name: s9(2)(a)

☐ *Tick if you require COC to be emailed back*

Signature

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform [illegible] retained and analysed at the site o[illegible]

Received at Hill Laboratories

Date &

Name:

Signatu[illegible]

Temperature On Arrival

7.1 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch

Priority ☐ Low ☒ Normal ☐ High

☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

ADDITIONAL INFORMATION

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS93_0.0	Soil		3/6/25	HM7, PA to NZG
2	MRS1_SS93_0.3				Hold Cold
3	MRS1_SS93_0.5				" "
4	MRS1_SS94_0.0				HM7, PA to NZG
5	MRS1_SS94_0.3				Hold Cold
6	MRS1_SS94_0.5				" "
7	MRS1_SS96_0.0				HM7, PA to NZG
8	MRS1_SS96_0.3				Hold Cold
9	MRS1_SS96_0.5				" "
10	MRS1_SS97_0.0				HM7, PA to NZG
11	MRS1_SS97_0.3				Hold Cold
12	MRS1_SS97_0.5				" "
13	MRS1_SS98_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS98_0.3	Soil		3/6/25	Hold Old
15	MRS1_SS98_0.5				" "
16	MRS1_SS99_0.0				HM7, PA to NZG
17	MRS1_SS99_0.3				Hold Old
18	MRS1_SS99_0.5				" "
19	MRS1_SS100_0.0				HM7, PA to NZG
20	MRS1_SS100_0.3				Hold Old
21	MRS1_SS100_0.5				" "
22	MRS1_SS101_0.0				HM7, PA to NZG
23	MRS1_SS101_0.3				Hold Old
24	MRS1_SS101_0.5				" "
25	MRS1_SS102_0.0				HM7, PA to NZG
26	MRS1_SS102_0.3				Hold Old
27	MRS1_SS102_0.5				" "
28	MRS1_SS103_0.0				HM7, PA to NZG
29	MRS1_SS103_0.3				Hold Old
30	MRS1_SS103_0.5				" "
31	MRS1_SS105_0.0				HM7, PA to NZG
32	MRS1_SS105_0.3				Hold Old
33	MRS1_SS105_0.5				" "
34	MRS1_SS106_0.0				HM7, PA to NZG
35	MRS1_SS106_0.3				Hold Old
36	MRS1_SS106_0.5				" "
37	MRS1_SS107_0.0				HM7, PA to NZG
38	MRS1_SS107_0.3				Hold Old
39	MRS1_SS107_0.5				" "
40	MRS1_SS108_0.0				HM7, PA to NZG
41	MRS1_SS108_0.3				Hold Old

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS108-0.5	Soil		3/6/25	Hold Cld
15	MRS1_SS109_0.0				HM7, PA + NZG
16	MRS1_SS109_0.3				Hold Cld
17	MRS1_SS109_0.5				" "
18	MRS1_SS112_0.0				HM7, PA + NZG
19	MRS1_SS112_0.3				Hold Cld
20	MRS1_SS112_0.5				" "
21	MRS1_SS113_0.0				HM7, PA + NZG
22	MRS1_SS113_0.3				Hold Cld
23	MRS1_SS113_0.5				" "
24	MRS1_SS114_0.0				HM7, PA + NZG
25	MRS1_SS114_0.3				Hold Cld
26	MRS1_SS114_0.5				" "
27	MRS1_SS115_0.0				HM7, PA + NZG
28	MRS1_SS115_0.3				Hold Cld
29	MRS1_SS115_0.5				" "
30	MRS1_SS116_0.0				HM7, PA + NZG
31	MRS1_SS116_0.3				Hold Cld
32	MRS1_SS116_0.5				" "
33	MRS1_QA09				HM7
34	MRS1_QA10				HM7
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3907095
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	04-Jun-2025 1:35 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 03/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	09-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS100 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS101_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS102_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS103 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS105 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS106_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS107_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS108 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS109 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS112_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS113_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS114 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS115_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS116_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1 SS93 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS94_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS96 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS97 0 0 03 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1_SS98_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS99_0.0 03-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 20
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 20
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-20
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 20
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-20
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 20
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20

HillLabs

ANALYSIS REQUEST

Quote No 138144

Primary Contact s9(2)(a)

Submitted By

Client Name Beca

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To Beca Ltd

Client Reference

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☑ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☑ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather St
Parnell
Auckland 1052, New Zealand

Job No: **391 1446**

Date Recv: 09-Jun-25 11:36

s9(2)(a)

Received by: s9(2)(a)

3139114460

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

☐ Tick if you require COC to be emailed back

Date & Time: 6/6/25

Name: s9(2)(a)

Signature:

Samples will be processed at a l capability and capacity. Please l retained and analysed at the site

Received at Hill Laboratories

Date

Name

Signatu

Temperature On Arrival

11.0 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

ADDITIONAL INFORMATION

Email results to Beca Esdat.

Priority ☐ Low ☒ Normal ☐ High ☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS149_0.0	Soil		6/6/25	HM7, PA + NZG
2	MRS1_SS149_0.3				Hold Cold
3	MRS1_SS150_0.0				HM7, PA + NZG
4	MRS1_SS150_0.3				Hold Cold
5	MRS1_SS151_0.0				HM7, PA + NZG
6	MRS1_SS151_0.3				Hold Cold
7	MRS1_SS152_0.0				HM7, PA + NZG
8	MRS1_SS152_0.3				Hold Cold
9	MRS1_SS152_0.5				" "
10	MRS1_SS153_0.0				HM7, PA + NZG
11	MRS1_SS153_0.3				Hold Cold
12	MRS1_SS153_0.5				" "
13	MRS1_SS154_0.0				HM7, PA + NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS154_0.3	Soil		6/6/25	Hold Cld
15	MRS1_SS155_0.0				HM7, PA + NZG
16	MRS1_SS155_0.3				Hold Cld
17	MRS1_SS156_0.0				HM7, PA + NZG
18	MRS1_SS156_0.3				Hold Cld
19	MRS1_SS157_0.0				HM7, PA + NZG
20	MRS1_SS157_0.3				Hold Cld
21	MRS1_SS158_0.0				HM7, PA + NZG
22	MRS1_SS158_0.3				Hold Cld
23	MRS1_SS159_0.0				HM7, PA + NZG
24	MRS1_SS159_0.3				Hold Cld
25	MRS1_SS160_0.0				HM7, PA + NZG
26	MRS1_SS160_0.3				Hold Cld
27	MRS1_SS161_0.0				HM7, PA + NZG
28	MRS1_SS161_0.3				Hold Cld
29	MRS1_SS161_0.5				" "
30	MRS1_SS162_0.0				HM7, PA + NZG
31	MRS1_SS162_0.3				Hold Cld
32	MRS1_SS162_0.5				" "
33	MRS1_QA15				HM7
34	MRS1_QA16				" "
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3911446
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	09-Jun-2025 12:05 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	12-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS149 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS150_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS151_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS152 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS153 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS154_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS155_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS156 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS157 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS158_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS159_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS160 0 0 06 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS161_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS162_0.0 06-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 14
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-14
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-14
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 14
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 14
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 14
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 14
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-14

HillLabs

ANALYSIS REQUEST

Quote No Beca Bty Quote.

Primary Contact s9(2)(a)

Submitted By

Client Name Beca Ltd.

Address

Postcode

Phone Mobile s9(2)(a)

Email s9(2)(a)

Charge To

Client Reference 30 115 50 / 200 / 2-1

Order No As above.

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☐ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: 391 3064

Date Recv: 10-Jun-25 18:22

Received by: s9(2)(a)

3139130641

s9(2)(a)

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 10/6/25

Name: s9(2)(a)

☑ Tick if you require COC to be emailed back

Signature:

Samples will be processed at a Hill capability and capacity. Please info retained and analysed at the site of

Temperature On Arrival

16.4 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

Received at Hill Laboratories

Date &

Name:

Signatur

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS209_0.0	Soil		10/06/25	Hms, PA to NZG
2	MRS1_SS209_0.3				Hold cold
3	MRS1_SS209_0.5				Hold cold
4	MRS1_SS210_0.0				Hms, PA to NZG
5	MRS1_SS210_0.3				Hold cold
6	MRS1_SS210_0.5				〃
7	MRS1_SS211_0.0				Hms, PA to NZG
8	MRS1_SS211_0.3				Hold cold
9	MRS1_SS211_0.5				〃
10	MRS1_SS212_0.0				Hms, PA to NZG
11	MRS1_SS212_0.3				Hold cold
12	~~MRS1_SS212_0.5~~				〃
13	MRS1_SS213_0.0				Hms, PA to NZG.

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS213_0.3	soil	~~10/6/25~~	10/6/25	HOLD COLD
15	MRS1_SS213_0.5				HOLD COLD
16	MRS1_SS214_0.0				HMs, PA to IVZG
17	MRS1_SS214_0.3				HOLD COLD
18	MRS1_SS214_0.5				HOLD COLD
19	MRS1_SS215_0.0				HMs, PA to IVZG
20	MRS1_SS215_0.3				HOLD COLD
21	MRS1_SS215_0.5				HOLD COLD
22	MRS1_SS216_0.0				HMs, PA to IVZG
23	MRS1_SS216_0.3				HOLD COLD
24	MRS1_SS216_0.5				HOLD COLD
25	MRS1_SS217_0.0				HMs PA to IVZG
26	MRS1_SS217_0.3				HOLD COLD
27	MRS1_SS217_0.5				HOLD COLD
28	MRS1_SS301_0.0				HMs, TPHOIPAH PA to IVZG
29	MRS1_SS301_0.3				HMs, TPHOIPAH
30	MRS1_SS301_0.5				HOLD COLD
31	~~MRS1_SS302_0.0~~				
32	~~MRS1_SS302_0.3~~				
33	~~MRS1_SS302_0.5~~				
34	MRS1_SS303_0.0				HMs, TPHOIPAH, PA to IVZ
35	MRS1_SS303_0.3				HMs, TPHOIPAH
36	~~MRS1_SS303_0.5~~				HOLD COLD.
37	MRS1_SS304_0.0				HMs, TPHOIPAH PA to IVZ
38	MRS1_SS304_0.3				HMs, TPHOIPAH, ~~PA to~~
39	MRS1_SS304_0.5				HOLD COLD.
40	MRS1_SS305_0.0				HMs, TPHOIPAH, PA to
41	MRS1_SS305_0.3				HMs, TPHOI PAH.

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS305_0.5				Hold cold
15	MRS1_SS306_0.0				HMS, PA to NZG
16	MRS1_SS306_0.3				Hold cold,
17	MRS1_SS306_0.5				Hold cold
18	MRS1_SS307_0.0				HMS, PA to NZG
19	MRS1_SS307_0.3				Hold cold
20	MRS1_SS307_0.5				Hold cold
21	MRS1_SS308_0.0				HMS, PA to NZG
22	MRS1_SS308_0.3				Hold cold,
23	MRS1_SS308_0.5				Hold cold
24	MRS1_SS309_0.0				HMS, PA to NZG
25	MRS1_SS309_0.3				Hold cold,
26	MRS1_SS309_0.5				Hold cold
27	MRS1_SS310_0.0				HMS, PA to NZG
28	MRS1_SS310_0.3				Hold cold
29	MRS1_SS310_0.5				Hold cold
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3913064
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	11-Jun-2025 11:23 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	13-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS209_0.0 10-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS210 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS211 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS212_0.0 10-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS213_0.0 10-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS214 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS215 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS216_0.0 10-Jun-2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS217 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS301 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS303_0.0 10-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS304_0.0 10-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS305 0 0 10 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS306 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS307_0.0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS308_0.0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS309 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS310 0 0	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-18
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-18
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1 18
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-18
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-18
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 18
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **391 4256**

Date Recv: 11-Jun-25 17:37

Received by s9(2)(a)

3138142560

Quote No

Primary Contact s9(2)(a)

Submitted By s9(2)(a)

Client Name Beca Limited

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To Beca

Client Reference 3011550/200/2.1

Order No 3011550/200/2.1

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☑ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☐ Other

ADDITIONAL INFORMATION

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 11/06/25

Name: s9(2)(a)

Signature: s9(2)(a)

☑ Tick if you require COC to be emailed back

Samples will be processed at a Hill ... capability and capacity. Please info... retained and analysed at the site of...

Received at Hill Laboratories

Date & T...

Name:

Signature:

Temperature On Arrival

13.2 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS218_0.0	Soil		11/6/25	HMS PA to NZG TPH OI PAH
2	MRS1_SS218_0.3				Hold cold
3	MRS1_SS218_0.5				"
4	MRS1_SS219_0.0				HMS, PA to NZG TPH OI PA...
5	MRS1_SS219_0.3				Hold cold
6	MRS1_SS219_0.5				"
7	MRS1_SS220_0.0				HMS PA to NZG TPH OI PAH
8	MRS1_SS220_0.3				Hold cold
9	MRS1_SS220_0.5				"
10	MRS1_SS221_0.0				HMS, PA to NZG TPH OI PA...
11	MRS1_SS221_0.3				Hold cold
12	MRS1_SS221_0.5				"
13	MRS1_SS222_0.0				HMS PA to NZG TPH OI PA...

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS22_0.3	Soil		11/6/25	HOLD COLD
15	MRS1_SS22_0.5				HOLD COLD
16	MRS1_SS23_0.0				HMS PA to NZG
17	MRS1_SS23_0.3				HOLD COLD
18	MRS1_SS23_0.5				"
19	MRS1_SS24_0.0				HMS PA to NZG
20	MRS1_SS24_0.3				HOLD COLD
21	MRS1_SS24_0.5				"
22	MRS1_SS25_0.0				HMS PA to NZG
23	MRS1_SS25_0.3				HOLD COLD
24	MRS1_SS25_0.5				"
25	MRS1_SS26_0.0				HMS PA to NZG
26	MRS1_SS26_0.3				HOLD COLD
27	MRS1_SS26_0.5				"
28	MRS1_SS27_0.0				HMS PA to NZG
29	MRS1_SS27_0.3				HOLD COLD
30	MRS1_SS27_0.5				"
31	MRS1_SS28_0.0				HMS PA to NZG
32	MRS1_SS28_0.3				HOLD COLD
33	MRS1_SS28_0.5				"
34	MRS1_SS33_0.0				HMS PA to NZG
35	MRS1_SS33_0.3				HOLD COLD
36	MRS1_SS33_0.5				"
37	MRS1_SS34_0.0				HMS PA to NZG
38	MRS1_SS34_0.3				HOLD COLD
39	MRS1_SS34_0.5				"
40	MRS1_SS35_0.0				HMS PA to NZG
41	MRS1_SS35_0.3				HOLD COLD

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS325_0.5	Soil		11/6/25	HOLD COLD
15	MRS1_SS326_0.0				HMS PA to N2G
16	MRS1_SS326_0.3				HOLD COLD
17	MRS1_SS326_0.5				"
18	MRS1_SS327_0.0				HMS PA to N2G
19	MRS1_SS327_0.3				HOLD COLD
20	MRS1_SS327_0.5				"
21	MRS1_SS328_0.0				HMS PA to N2G
22	MRS1_SS328_0.3				HOLD COLD
23	MRS1_SS328_0.5				"
24	MRS1_SS329_0.0				HMS PA to N2G
25	MRS1_SS329_0.3				HOLD COLD
26	MRS1_SS329_0.5				HOLD COLD
27	MRS1_SS181_0.0				HMS PA to N2G
28	MRS1_SS181_0.3				HOLD COLD
29	MRS1_SS181_0.5				"
30	MRS1_SS182_0.0				HMS PA to N2G
31	MRS1_SS182_0.3				HOLD COLD
32	MRS1_SS182_0.5				"
33	MRS1_SS183_0.0				HMS PA to N2G
34	MRS1_SS183_0.3				HOLD COLD
35	MRS1_SS183_0.5				"
36	MRS1_SS184_0.0				HMS PA to N2G
37	MRS1_SS184_0.3				HOLD COLD
38	MRS1_SS184_0.5				"
39	MRS1_SS185_0.0				HMS PA to N2G
40	MRS1_SS185_0.3				HOLD COLD
41	MRS1_SS185_0.5				"

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	~~MRS1_SS186_0.0~~				
15	~~MRS1_SS186_0.3~~				
16	~~MRS1_SS186_0.5~~				
17	MRS1_SS187_0.0	Soil		11/6/25	HMS PA to NZG
18	MRS1_SS187_0.3	↓		↓	HOLD COLD
19	MRS1_SS187_0.5				〃
20	MRS1_SS188_0.0				HMS PA to NZG
21	MRS1_SS188_0.3				HOLD COLD
22	MRS1_SS188_0.5				〃
23	MRS1_SS189_0.0				HMS PA to NZG
24	MRS1_SS189_0.3				HOLD COLD
25	MRS1_SS189_0.5				〃
26	MRS1_SS190_0.0				HMS PA to NZG
27	MRS1_SS190_0.3				HOLD COLD
28	MRS1_SS190_0.5				〃
29	MRS1_SS191_0.0				HMS PA to NZG
30	MRS1_SS191_0.3				HOLD COLD
31	MRS1_SS191_0.5				〃
32	MRS1_SS192_0.0				HMS PA to NZG
33	MRS1_SS192_0.3				HOLD COLD
34	MRS1_SS192_0.5				〃
35	MRS1_QA_17				HMS.
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3914256
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	12-Jun-2025 11:31 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	16-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS218_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS219_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS220 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS221 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS222_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS223_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS224 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS225 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS226 0 0 11 Jun 2025	Soil	cPSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS227_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS228_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS323 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS324 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS325_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS326_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1 SS327 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
17	MRS1_SS328_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1_SS329_0.0 11-Jun-2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS181 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1 SS182 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS183_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1_SS184_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1 SS185 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1 SS187 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
25	MRS1_SS188_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
26	MRS1_SS189_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1 SS190 0 0 11 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
28	MRS1 SS191 0 0 11 Jun 2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
29	MRS1_SS192_0.0 11-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 29
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 29
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1 29
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-29
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-29
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 29

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 29
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-29

HillLabs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **391 5679**
Date Recv: 13-Jun-25 09:22
Received by: s9(2)(a)

3139156798

Quote No
Primary Contact s9(2)(a)
Submitted By
Client Name Beca Hel
Address
Postcode
Phone *Mobile*
Email s9(2)(a)
Charge To
Client Reference
Order No

s9(2)(a)

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories
Date & Time:
Name:
Signature:

☐ *Tick if you require COC to be emailed back*

Samples will be processed at a Hill La capability and capacity. Please inform retained and analysed at the site of re

Temperature On Arrival
9.7 °C
Temperature was measured on one or more arbitrarily chosen samples in this batch.

Received at Hill Laboratories
Date & Tim
Name:
Signature:

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ *Email Primary Contact* ☐ *Email Submitter* ☐ *Email Client*
☐ *Email Other* s9(2)(a)
☐ *Other*

ADDITIONAL INFORMATION

Priority ☐ **Low** ☒ **Normal** ☐ **High**
☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRSI_SS193_0.0	Soil		12/6/25	HMS. PA to NZG
2	MRSI_SS193_0.3				Hold cold
3	MRSI_SS193_0.5				"
4	MRSI_SS194_0.0				HMS PA to NZG
5	MRSI_SS194_0.3				Hold cold
6	MRSI_SS194_0.5				"
7	MRSI_SS195_0.0				HMS PA to NZG
8	MRSI_SS195_0.3				Hold cold
9	MRSI_SS195_0.5				"
10	MRSI_SS196_0.0				HMS PA to NZG
11	MRSI_SS197_0.0				HMS PA to NZG
12	MRSI_SS198_0.0				HMS PA to NZG
13	MRSI_SS198_0.3				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS198_0.5	Soil		2/6/25	HOLD COLD
15	MRSI_SS199_0.0				HMS PA to NZG
16	MRSI_SS199_0.3				HOLD COLD
17	MRSI_SS199_0.5				"
18	MRSI_SS200_0.0				HMS, PA to NZG
19	MRSI_SS200_0.3				HOLD COLD
20	MRSI_SS200_0.5				"
21	MRSI_SS201_0.0				HMS, PA to NZG
22	~~MRSI_SS201_0.3~~				HOLD COLD
23	~~MRSI_SS201_0.5~~				"
24	MRSI_SS202_0.0				HMS, PA to NZG
25	MRSI_SS202_0.3				HOLD COLD
26	MRSI_SS202_0.5				"
27	MRSI_SS203_0.0				HMS PA to NZG
28	MRSI_SS203_0.3				HOLD COLD
29	MRSI_SS203_0.5				"
30	MRSI_SS229_0.0				HMS PA to NZG
31	MRSI_SS229_0.3				HOLD COLD
32	MRSI_SS229_0.5				"
33	MRSI_SS230_0.0				HMS PA to NZG
34	MRSI_SS230_0.3				HOLD COLD
35	MRSI_SS230_0.5				"
36	MRSI_SS231_0.0				HMS PA to NZG
37	MRSI_SS231_0.3				HOLD COLD
38	MRSI_SS231_0.5				"
39	MRSI_SS232_0.0				HMS PA to NZG
40	MRSI_SS232_0.3				HOLD COLD
41	MRSI_SS232_0.5				"

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI-SS233-0.0	Soil		12/6/25	HMS PFAS to NZ
15	MRSI_SS233_0.3				HOLD COLD
16	MRSI_SS233_0.5				"
17	MRSI_SS235_0.0				HMS PFAS to NZ
18	MRSI_SS235_0.3				HOLD COLD
19	MRSI_SS235_0.5				"
20	MRSI_SS236_0.0				HMS PFAS to NZ
21	MRSI_SS236_0.3				HOLD COLD
22	MRSI_SS236_0.5				"
23	MRSI_SS237_0.0				HMS PFAS to NZ
24	MRSI_SS237_0.3				HOLD COLD
25	MRSI_SS237_0.5				"
26	MRSI_SS238_0.0				HMS PFAS to NZ
27	MRSI_SS238_0.3				HOLD COLD
28	MRSI_SS238_0.5				"
29	MRSI_SS239_0.0				HMS PFAS to NZ
30	MRSI_SS239_0.3				HOLD COLD
31	MRSI_SS239_0.5				"
32	MRSI_SS240_0.0				HMS PFAS to NZ
33	MRSI_SS240_0.3				HOLD COLD
34	MRSI_SS240_0.5				"
35	MRSI_SS241_0.0				HMS PFAS to NZ
36	MRSI_SS241_0.3				HOLD COLD
37	MRSI_SS241_0.5				"
38	MRSI_SS242_0.0				HMS PFAS to NZ
39	MRSI_SS242_0.3				HOLD COLD
40	MRSI_SS242_0.5				"
41	MRSI_SS243_0.0				HMS PFAS to NZ

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI-SS243-0.3	Soil		12/6/25	Hold COLD
15	MRSI-SS243-0.5				"
16	MRSI-SS244-0.0				HM8 PAH & NZ
17	MRSI-SS244-0.3				Hold COLD
18	MRSI-SS244-0.5				"
19	MRSI-SS245-0.0				HM8 PAH & NZ
20	MRSI-SS245-0.3				Hold COLD
21	MRSI-SS245-0.5				"
22	MRSI-SS246-0.0				HM8, PAH & NZ
23	MRSI-SS246-0.3				Hold COLD
24	MRSI-SS246-0.5				"
25	MRSI-SS247-0.0				HM8 PAH & NZ
26	MRSI-SS247-0.3				Hold COLD
27	MRSI-SS247-0.5				"
28	MRSI-QA 18				HM8
29	MRSI-QA 19				HM8
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3915679
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	13-Jun-2025 11:04 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 12/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	18-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS193 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS194_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS195_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS197 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS198 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS199_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS200_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS201 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS202 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS203_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS229_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS230 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS231_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS232_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1 SS233 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS235_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1 SS236 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS237 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1_SS238_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS239_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1 SS240 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1 SS241 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1_SS242_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1_SS243_0.0 12-Jun-2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
25	MRS1 SS244 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
26	MRS1 SS245 0 0 12 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1_SS246_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
28	MRS1_SS247_0.0 12-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-28
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 28
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-28
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-28
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-28
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 28
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 28
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28

HillLabs

ANALYSIS REQUEST

Quote No

Primary Contac s9(2)(a)

Submitted By

Client Name Beca Limited

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To

Client Reference 3011550

Order No 3011550

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☒ Email Submitter ☐ Email Client

☒ Email Other s9(2)(a)

☐ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: 391 6219

Date Recv: 13-Jun-25 17:21

s9(2)(a)

Received by: s9(2)(a)

3139162194

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 13/06

Name: s9(2)(a)

☐ Tick if you require COC to be emailed back

Signature: s9(2)(a)

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform th ...ab if you wish samples to be retained and analysed at the site of rec

Received at Hill Laboratories

Date & Ti

Name:

Signat

Temperature On Arrival 12.3 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

ADDITIONAL INFORMATION

Priority ☐ Low

☐ Urgent (ASAP, extra charge applies)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS250_0.0	Soil		13/06	HM8, PA NZG
2	MRS1_SS250_0.3				Hold cold
3	MRS1_SS250_0.5				Hold cold
4	MRS1_SS251_0.0				HM8, PA NZG
5	MRS1_SS251_0.3				Hold cold
6	MRS1_SS251_0.5				Hold cold
7	MRS1_SS252_0.0				HM8, PA NZG
8	~~MRS1_SS252_0.3~~				~~Hold cold~~
9	~~MRS1_SS252_0.5~~				~~Hold cold~~
10	MRS1_SS253_0.0				HM8, PA NZG
11	MRS1_SS253_0.3				Hold cold
12	MRS1_SS253_0.5				Hold cold
13					

Surface, 0.5, 1m, surface f HM8, TPH OT PAH, PA NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS254_0.0	Soil		13/6	HMS, TPH, OI, PAH, PA, NZ
15	MRS1_SS254_0.3				Hold Cold
16	MRS1_SS254_0.5				" "
17	MRS1_SS255_0.0				HMS, TPH OI, PAH, PA, NZ
18	MRS1_SS255_0.3				Hold Cold
19	MRS1_SS255_0.5				HMS, TPH OI, PAH, PA, NZ
20	MRS1_SS255_0.8				Hold Cold
21	MRS1_SS255_1.0				HMS, TPH OI, PAH, PA, NZ
22	MRS1_SS256_0.0				" "
23	MRS1_SS256_0.3				Hold Cold
24	MRS1_SS256_0.5				" "
25	MRS1_SS257_0.0				HMS, TPH OI, PAH, PA, NZ
26	MRS1_SS257_0.3				Hold Cold
27	MRS1_SS257_0.5				" "
28	MRS1_SS258_0.0				HMS, TPH OI, PAH, PA, NZ
29	MRS1_SS258_0.3				Hold Cold
30	MRS1_SS258_0.5				HMS, TPH OI, PAH, PA, NZ
31	MRS1_SS258_0.8				Hold Cold
32	MRS1_SS258_1.0				HMS, TPH OI, PAH, PA, NZ
33	MRS1_SS259_0.0				" "
34	MRS1_SS259_0.3				Hold Cold
35	MRS1_SS259_0.5				" "
36	MRS1_SS260_0.0				HMS, TPH OI, PAH, PA, NZ
37	MRS1_SS260_0.3				Hold Cold
38	MRS1_SS260_0.5				" "
39	MRS1_SS261_0.0				HMS, TPH OI, PAH, PA, NZ
40	MRS1_SS261_0.3				Hold Cold
41	MRS1_SS261_0.5				" "

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS262_0.0	Soil		13/6	HM8, TPH OI PAH, PA NZG
15	MRS1_SS262_0.3				Hold cold
16	MRS1_SS262_0.5				Hold cold
17	MRS1_SS176_0.0				HM8, PA NZG
18	MRS1_SS176_0.3				Hold cold
19	MRS1_SS177_0.0				HM8, PA NZG
20	MRS1_SS177_0.3				Hold cold
21	MRS1_SS178_0.0				HM8, PA NZG
22	MRS1_SS178_0.3				Hold cold
23	MRS1_SS179_0.0				HM8, PA NZG
24	MRS1_SS179_0.3				Hold cold
25	MRS1_SS180_0.0				HM8, PA NZG
26	MRS1_SS180_0.3				Hold cold
27	MRS1_SS204_0.0				HM8, PA NZG
28	MRS1_SS204_0.3				Hold cold
29	MRS1_SS248_0.0				HM8, PA NZG
30	MRS1_SS248_0.3				Hold cold
31	MRS1_SS249_0.0				HM8, PA NZG
32	MRS1_SS249_0.3				Hold cold
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3916219
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	16-Jun-2025 12:28 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 13/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	23-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS250_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS251_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS252_0.0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS253_0.0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS254_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS254_0.3 13-Jun-2025	Soil	PSoil125Asb	Hold
7	MRS1_SS254_0.5 13-Jun-2025	Soil	PSoil125Asb	Hold
8	MRS1_SS255_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1_SS255_0.3 13 Jun 2025	Soil	PSoil125Asb	Hold
10	MRS1_SS255_0.5 13 Jun 2025	Soil	PSoil125Asb	Asbestos in Soil, Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS255_0.8 13 Jun 2025	Soil	PSoil125Asb	Hold
12	MRS1_SS255_1.0 13-Jun-2025	Soil	PSoil125Asb	Asbestos in Soil, Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS256_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS257_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS258_0.0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1_SS258_0.3 13 Jun 2025	Soil	PSoil125Asb	Hold
17	MRS1_SS258_0.8 13-Jun-2025	Soil	PSoil125Asb	Hold
18	MRS1_SS258_1.0 13-Jun-2025	Soil	PSoil125Asb	Asbestos in Soil, Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1_SS259_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS259_0.3 13 Jun 2025	Soil	PSoil125Asb	Hold
21	MRS1_SS260_0.0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
22	MRS1_SS261_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1_SS262_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1 SS262 0 3 13 Jun 2025	Soil	PSoil125Asb	Hold
25	MRS1 SS262 0 5 13 Jun 2025	Soil	PSoil125Asb	Hold
26	MRS1 SS176 0 0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
27	MRS1_SS177_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
28	MRS1_SS177_0.3 13-Jun-2025	Soil	PSoil125Asb	Hold
29	MRS1_SS178_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
30	MRS1 SS178 0 3 13 Jun 2025	Soil	PSoil125Asb	Hold
31	MRS1 SS179 0 0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
32	MRS1 SS179 0 3 13 Jun 2025	Soil	PSoil125Asb	Hold
33	MRS1_SS180_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
34	MRS1_SS180_0.3 13-Jun-2025	Soil	PSoil125Asb	Hold
35	MRS1_SS204_0.0 13-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
36	MRS1 SS248 0 0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
37	MRS1 SS249 0 0 13 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-5, 8, 10, 12-15, 18 19, 21-23, 26-27, 29, 31, 33, 35-37

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37
New Zealand Guidelines Semi Quantitative Asbestos in Soil			
As Received Weight	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	5, 29
Dry Weight	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	5, 29
Moisture	Sample dried at 100 to 105°C. Calculation = (As received weight - Dry weight) / as received weight x 100.	1 %	5, 29
Sample Fraction >10mm	Sample dried at 100 to 105°C, 10mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Sample Fraction <10mm to >2mm	Sample dried at 100 to 105°C, 10mm and 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Sample Fraction <2mm	Sample dried at 100 to 105°C, 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Asbestos Presence / Absence	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	5, 29
Description of Asbestos Form	Description of asbestos form and/or shape if present.	-	5, 29
Weight of Asbestos in ACM (Non-Friable)	Measurement on analytical balance, from the >10mm Fraction. Weight of asbestos based on assessment of ACM form. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos in ACM as % of Total Sample	Calculated from weight of asbestos in ACM and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Weight of Asbestos as Fibrous Asbestos (Friable)	Measurement on analytical balance, from the >10mm Fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos as Fibrous Asbestos as % of Total Sample	Calculated from weight of fibrous asbestos and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Weight of Asbestos as Asbestos Fines (Friable)	Measurement on analytical balance, from the <10mm Fractions. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos as Asbestos Fines as % of Total Sample	Calculated from weight of asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample	Calculated from weight of fibrous asbestos plus asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-5, 8, 10, 12-15, 18 19, 21-23, 26-27, 29, 31, 33, 35-37

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 5, 8, 10, 12 15, 18-19, 21 23, 26 27, 29, 31, 33, 35 37

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **391 8846**
Date Recv: 18-Jun-25 09:46

s9(2)(a)

Received by: s9(2)(a)

3139188466

Quote No

Primary Contact s9(2)(a)

Submitted By s9(2)(a)

Client Name Beca Limited

Address

Postcode

Phone *Mobile*

Email s9(2)(a)

Charge To 3011550

Client Reference 3011550

Order No

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☒ Email Other s9(2)(a)

☐ Other

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 18/06

Name: s9(2)(a)

☐ Tick if you require COC to be emailed back

Signature: s9(2)(a)

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform the lab if you wish samples to be retained and analysed at the site of receipt.

Received at Hill Laboratories

Date & Time:

Name:

Signature:

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge ... contact lab first)

Requested Reporting Date:

Please ensure all asbestos **double bagged** upon sub

Temperature On Arrival

4.1 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

No.	Sample Name	Sample Material	Sample Location	Sample Date	(if not as ...)
1	MRS1_SS263_0.0	Soil		17/06	HM8, PA NZG
2	MRS1_SS263_0.3				Hold cold
3	MRS1_SS263_0.5				Hold cold
4	MRS1_SS264_0.0				HM8, PA NZG
5	MRS1_SS264_0.3				Hold cold
6	MRS1_SS264_0.5				Hold cold
7	MRS1_SS265_0.0				HM8, PA NZG
8	MRS1_SS265_0.3				Hold cold
9	MRS1_SS265_0.5				Hold cold
10	MRS1_SS266_0.0				HM8, PA NZG
11	MRS1_SS266_0.3				Hold cold
12	MRS1_SS266_0.5				Hold cold
13	MRS1_SS267_0.0				HM8, PA NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS267_0.3	Soil		17/06	Hold cold
15	MRS1_SS267_0.5				Hold cold
16	MRS1_SS268_0.0				HM8, PA NZG
17	MRS1_SS268_0.3				Hold cold
18	MRS1_SS268_0.5				Hold cold
19	MRS1_SS275_0.0				HM8, PA NZG
20	MRS1_SS275_0.3				Hold cold
21	MRS1_SS275_0.5				Hold cold
22	MRS1_SS276_0.0				HM8, PA NZG
23	MRS1_SS276_0.3				Hold cold
24	MRS1_SS276_0.5				Hold cold
25	MRS1_SS277_0.0				HM8, PA NZG
26	MRS1_SS277_0.3				Hold cold
27	MRS1_SS277_0.5				Hold cold
28	MRS1_SS278_0.0				HM8, PA NZG
29	MRS1_SS278_0.3				Hold cold
30	MRS1_SS278_0.5				Hold cold
31	MRS1_SS279_0.0				HM8, PA NZG
32	MRS1_SS279_0.3				Hold cold
33	MRS1_SS279_0.5				Hold cold
34	MRS1_SS280_0.0				HM8, PA NZG
35	MRS1_SS280_0.3				Hold cold
36	MRS1_SS280_0.5				Hold cold
37	MRS1_SS281_0.0				HM8, PA NZG
38	MRS1_SS281_0.3				Hold cold
39	MRS1_SS281_0.5				Hold cold
40	MRS1_SS282_0.0				HM8, PA NZG
41	MRS1_SS282_0.3				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS282_0.5	Soil		17/06	Hold cold
15	MRS1_SS283_0.0				HMS, PA NZG
16	MRS1_SS283_0.3				Hold cold
17	MRS1_SS283_0.5				Hold cold
18	MRS1_SS284_0.0				HMS, PA NZG
19	MRS1_SS284_0.3				Hold cold
20	MRS1_SS284_0.5				Hold cold
21	MRS1_SS285_0.0				HMS, PA NZG
22	MRS1_SS285_0.3				Hold cold
23	MRS1_SS285_0.5				Hold cold
24	MRS1_SS286_0.0				HMS, PA NZG
25	MRS1_SS286_0.3				Hold cold
26	MRS1_SS286_0.5				Hold cold
27	MRS1_SS292_0.0				HMS, PA NZG
28	MRS1_SS292_0.3				Hold cold
29	MRS1_SS292_0.5				Hold cold
30	MRS1_SS293_0.0				HMS, PA NZG
31	MRS1_SS293_0.3				Hold cold
32	MRS1_SS293_0.5				Hold cold
33	MRS1_SS294_0.0				HMS, PA NZG
34	MRS1_SS294_0.3				Hold cold
35	MRS1_SS294_0.5				Hold cold
36	MRS1_SS295_0.0				HMS, PA NZG
37	MRS1_SS295_0.3				Hold cold
38	MRS1_SS295_0.5				Hold cold
39	MRS1_SS296_0.0				HMS, PA NZG
40	MRS1_SS296_0.3				Hold cold
41	MRS1_SS296_0.5				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS297_0.0	Soil		17/06	HMS, PA NZG
15	MRSI_SS297_0.3	↓		↓	Hold cold
16	MRSI_SS297_0.5	↓		↓	Hold cold
17					
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41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3918846
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	18-Jun-2025 1:13 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550
		Client Reference:	3011550
		Add. Client Ref:	Sampled 17/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	23-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS263_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS264_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS265 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS266 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS267_0.0 17-Jun-2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS268_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS275 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS276 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS277 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS278_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS279_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS280 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS281 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS282_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS283_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1 SS284 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
17	MRS1_SS285_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1_SS286_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS292 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1 SS293 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS294_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1_SS295_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1 SS296 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1 SS297 0 0 17 Jun 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 24
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 24
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-24
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 24
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24

HillLabs

ANALYSIS REQUEST

Quote No

Primary Contact s9(2)(a)

Submitted By s9(2)(a)

Client Name Beca Limited

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To 3011550

Client Reference 3011550

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☒ Email Other s9(2)(a)

☐ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

s9(2)(a)

Job No: 391 8846

Date Recv: 18-Jun-25 09:46

Received by: s9(2)(a)

3139188466

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 18/06

Name: s9(2)(a)

Signature: s9(2)(a)

☐ Tick if you require COC to be emailed back

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform the lab if you wish samples to be retained and analysed at the site of receipt.

Received at Hill Laboratories

Date & Time:

Name:

Signature:

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge ... contact lab first)

Requested Reporting Date:

Please ensure all asbestos **double bagged** upon sub

Temperature On Arrival 4.1 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

No.	Sample Name	Sample Material	Sample Location	Sample Date	(if not as ...)
1	MRS1_SS263_0.0	Soil		17/06	HM8, PA NZG
2	MRS1_SS263_0.3				Hold cold
3	MRS1_SS263_0.5				Hold cold
4	MRS1_SS264_0.0				HM8, PA NZG
5	MRS1_SS264_0.3				Hold cold
6	MRS1_SS264_0.5				Hold cold
7	MRS1_SS265_0.0				HM8, PA NZG
8	MRS1_SS265_0.3				Hold cold
9	MRS1_SS265_0.5				Hold cold
10	MRS1_SS266_0.0				HM8, PA NZG
11	MRS1_SS266_0.3				Hold cold
12	MRS1_SS266_0.5				Hold cold
13	MRS1_SS267_0.0				HM8, PA NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS267_0.3	Soil		17/06	Hold cold
15	MRS1_SS267_0.5				Hold cold
16	MRS1_SS268_0.0				HM8, PA NZG
17	MRS1_SS268_0.3				Hold cold
18	MRS1_SS268_0.5				Hold cold
19	MRS1_SS275_0.0				HM8, PA NZG
20	MRS1_SS275_0.3				Hold cold
21	MRS1_SS275_0.5				Hold cold
22	MRS1_SS276_0.0				HM8, PA NZG
23	MRS1_SS276_0.3				Hold cold
24	MRS1_SS276_0.5				Hold cold
25	MRS1_SS277_0.0				HM8, PA NZG
26	MRS1_SS277_0.3				Hold cold
27	MRS1_SS277_0.5				Hold cold
28	MRS1_SS278_0.0				HM8, PA NZG
29	MRS1_SS278_0.3				Hold cold
30	MRS1_SS278_0.5				Hold cold
31	MRS1_SS279_0.0				HM8, PA NZG
32	MRS1_SS279_0.3				Hold cold
33	MRS1_SS279_0.5				Hold cold
34	MRS1_SS280_0.0				HM8, PA NZG
35	MRS1_SS280_0.3				Hold cold
36	MRS1_SS280_0.5				Hold cold
37	MRS1_SS281_0.0				HM8, PA NZG
38	MRS1_SS281_0.3				Hold cold
39	MRS1_SS281_0.5				Hold cold
40	MRS1_SS282_0.0				HM8, PA NZG
41	MRS1_SS282_0.3				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS282_0.5	Soil		17/06	Hold cold
15	MRS1_SS283_0.0				HMS, PA NZG
16	MRS1_SS283_0.3				Hold cold
17	MRS1_SS283_0.5				Hold cold
18	MRS1_SS284_0.0				HMS, PA NZG
19	MRS1_SS284_0.3				Hold cold
20	MRS1_SS284_0.5				Hold cold
21	MRS1_SS285_0.0				HMS, PA NZG
22	MRS1_SS285_0.3				Hold cold
23	MRS1_SS285_0.5				Hold cold
24	MRS1_SS286_0.0				HMS, PA NZG
25	MRS1_SS286_0.3				Hold cold
26	MRS1_SS286_0.5				Hold cold
27	MRS1_SS292_0.0				HMS, PA NZG
28	MRS1_SS292_0.3				Hold cold
29	MRS1_SS292_0.5				Hold cold
30	MRS1_SS293_0.0				HMS, PA NZG
31	MRS1_SS293_0.3				Hold cold
32	MRS1_SS293_0.5				Hold cold
33	MRS1_SS294_0.0				HMS, PA NZG
34	MRS1_SS294_0.3				Hold cold
35	MRS1_SS294_0.5				Hold cold
36	MRS1_SS295_0.0				HMS, PA NZG
37	MRS1_SS295_0.3				Hold cold
38	MRS1_SS295_0.5				Hold cold
39	MRS1_SS296_0.0				HMS, PA NZG
40	MRS1_SS296_0.3				Hold cold
41	MRS1_SS296_0.5				Hold cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS297_0.0	Soil		17/06	HMS, PA NZG
15	MRSI_SS297_0.3	↓		↓	Hold cold
16	MRSI_SS297_0.5	↓		↓	Hold cold
17					
18					
19					
20					
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37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3918846
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	18-Jun-2025 1:13 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550
		Client Reference:	3011550
		Add. Client Ref:	Sampled 17/06/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	23-Jun-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS263_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS264_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS265 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS266 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS267_0.0 17-Jun-2025	Soil	PSoil125Asb, cPSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS268_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS275 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS276 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS277 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS278_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS279_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS280 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS281 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS282_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS283_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1 SS284 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
17	MRS1_SS285_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1_SS286_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS292 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1 SS293 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS294_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
22	MRS1_SS295_0.0 17-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
23	MRS1 SS296 0 0 17 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
24	MRS1 SS297 0 0 17 Jun 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 24
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 24
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-24
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 24
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24

1/3

HillLabs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **391 9435**
Date Recv: 18-Jun-25 18:26
Received by: s9(2)(a)

Quote No
Primary Contact s9(2)(a)
Submitted By s9(2)(a)
Client Name Beca Limited
Address
Postcode
Phone *Mobile*
Email s9(2)(a)
Charge To
Client Reference 3011550
Order No 3011550

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ Email Primary Contact ☒ Email Submitter ☐ Email Client
☒ Email Other s9(2)(a)
☐ Other

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories
Date & Time: 18/06
Name: s9(2)(a)
Signature: s9(2)(a)
☐ *Tick if you require COC to be emailed back*

Samples will be processed at a Hill L capability and capacity. Please infon retained and analysed at the site of

Received at Hill Laboratories
Date & T
Name:
Signature

Temperature On Arrival
13.1 °C
Temperature was measured on one or more arbitrarily chosen samples in this batch

ADDITIONAL INFORMATION

Priority ☐ Low ~~☒ Normal~~ ☒ High
☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS169_0.0	Soil		18/06	HMS, PA NZG
2	MRS1_SS169_0.3				Hold cold.
3	MRS1_SS169_0.5				//
4	MRS1_SS170_0.0				HMS, PA NZG
5	MRS1_SS170_0.3				Hold cold
6	MRS1_SS170_0.5				//
7	MRS1_SS171_0.0				HMS PA NZG
8	MRS1_SS171_0.3				Hold cold
9	MRS1_SS171_0.5				//
10	MRS1_SS172_0.0				HMS PA NZG
11	MRS1_SS172_0.3				Hold cold
12	MRS1_SS172_0.5				//
13	MRS1_SS173_0.0				HMS, PA NZG

continued

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS173_0.3	Soil		18/6/25	Hold cold
15	MRS1_SS173_0.5				//
16	MRS1_SS174_0.0				HM8, PAN2G
17	MRS1_SS174_0.3				Hold cold
18	MRS1_SS174_0.5				//
19	MRS1_SS287_0.0				HM8, PAN2G
20	MRS1_SS287_0.3				Hold cold
21	MRS1_SS287_0.5				//
22	MRS1_SS288_0.0				HM8, PAN2G
23	MRS1_SS288_0.3				Hold cold
24	MRS1_SS288_0.5				//
25	MRS1_SS289_0.0				HM8, PAN2G
26	MRS1_SS289_0.3				Hold cold
27	MRS1_SS289_0.5				//
28	MRS1_SS290_0.0				HM8, PAN2G
29	MRS1_SS290_0.3				Hold cold
30	MRS1_SS290_0.5				//
31	MRS1_SS291_0.0				HM8, PAN2G
32	MRS1_SS291_0.3				Hold cold
33	MRS1_SS291_0.5				//
34					
35					
36					
37					
38					
39					
40					
41					

Continued

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSL_SS311_0.0	Soil		18/6/25	HM8, PA NZG
15	MRSL_SS311_0.3	↓		↓	Hold Cold
16	MRSL_SS311_0.5				//
17	MRSL_SS312_0.0				HM8, PA NZG
18	MRSL_SS312_0.3				Hold Cold
19	MRSL_SS312_0.5				//
20	MRSL_SS313_0.0				HM8, PA NZG
21	MRSL_SS313_0.3				Hold cold
22	MRSL_SS313_0.5				//
23	MRSL_SS314_0.0				HM8, PA NZG
24	MRSL_SS314_0.3				Hold cold
25	MRSL_SS314_0.5				//
26	MRSL_SS315_0.0				HM8, PA NZG
27	MRSL_SS315_0.3				Hold cold
28	MRSL_SS315_0.5	↓		↓	//
29					
30					
31					
32					
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3919435
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	19-Jun-2025 10:50 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	25-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS269 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS270 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS271_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS272_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS273 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS274 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS287_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS288_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS289 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS290 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS291_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS311_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS312_0.0 18-Jun-2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS313 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1 SS314 0 0 18 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS315_0.0 18-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-16
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1 16
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1 16
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 16
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 16
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 16
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 16
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 16

Hill Labs

ANALYSIS REQUEST

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

s9(2)(a)

Job No: **392 1265**

Date Recv: 23-Jun-25 10:12

Received by: s9(2)(a)

3139212658

Quote No

Primary Contact s9(2)(a)

Submitted By s9(2)(a)

Client Name Beca Limited

Address

Postcode

Phone

Email s9(2)(a)

Charge To

Client Reference 3011550

Order No 3011550

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 19/06

Name:

☐ *Tick if you require COC to be emailed back*

Signature: s9(2)(a)

Samples will be processed at a Hill Labs site with the appropriate testing capability and capacity. Please inform the lab if you wish samples to be retained and analysed at the site of receipt.

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*

☒ *Email Primary Contact* ☒ *Email Submitter* ☐ *Email Client*

☒ *Email Other* s9(2)(a)

☐ *Other*

Received at Hill Laboratories

Date &

Name:

Signature:

Temperature On Arrival 8.1 °C

ADDITIONAL INFORMATION

Priority ☐ **Low** ☒ Temperature was measured on one or more arbitrarily chosen samples in this batch.

☐ **Urgent** (ASAP, extra ch... contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS339_0.0	Soil		19/06	HMS, PANZG
2	MRS1-SS339_0.3				Hold cold
3	MRS1_SS339_0.5				11
4	MRS1-SS340_0.0				HMS, PANZG
5	MRS1_SS340_0.3				Hold cold
6	MRS1_SS340-0.5				11
7	MRS1_SS341-0.0				HMS, PANZG
8	MRS1_SS341_0.3				Hold cold
9	MRS1_SS341-0.5				11
10	MRS1_SS342_0.0				HMS, PANZG
11	MRS1_SS342-0.3				Hold cold
12	MRS1_SS342_0.5				11
13	MRS1_SS343-0.0				HMS, PANZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS343_0.3	Soil		19/06	Hold cold
15	MRS1_SS343_0.5				//
16	MRS1_SS344_0.0				HMS, PA NZG
17	MRS1_SS344_0.3				Hold cold
18	MRS1_SS344_0.5				//
19	MRS1_SS317_0.0				HMS, PA NZG
20	MRS1_SS317_0.3				Hold cold
21	MRS1_SS317_0.5				//
22	MRS1_SS318_0.0				HMS, PA NZG
23	MRS1_SS318_0.3				Hold cold
24	MRS1_SS318_0.5				//
25	MRS1_SS319_0.0				HMS, PA NZG
26	MRS1_SS319_0.3				Hold cold
27	MRS1_SS319_0.5				//
28	MRS1_SS320_0.0				HMS, PA NZG
29	MRS1_SS320_0.3				Hold cold
30	MRS1_SS320_0.5				//
31	MRS1_SS321_0.0				HMS, TPH 01 PAH, PA NZG
32	MRS1_SS321_0.3				Hold cold
33	MRS1_SS321_0.5				//
34	MRS1_SS322_0.0				HMS, PA NZG
35	MRS1_SS322_0.3				Hold cold
36	MRS1_SS322_0.5				//
37					
38					
39					
40					
41					

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI_SS330_0	SOIL		19/6/25	HM8, PAN2G
15	~~MRSI_SS330_3~~				
16	~~MRSI_SS330_5~~				
17	MRSI_SS331_0.0				HM8, PAN2G
18	MRSI_SS331_0.3				Hold cold
19	MRSI_SS331_0.5				//
20	MRSI_SS332_0.0				HM8, PAN2G
21	MRSI_SS332_0.3				Hold cold
22	MRSI_SS332_0.5				//
23	MRSI_SS333_0.0				HM8, PAN2G
24	MRSI_SS333_0.3				Hold cold
25	MRSI_SS333_0.5				//
26	MRSI_SS334_0.0				HM8, PAN2G
27	MRSI_SS334_0.3				Hold cold
28	MRSI_SS334_0.5				//
29	MRSI_SS335_0.0				HM8, PAN2G
30	MRSI_SS335_0.3				Hold cold
31	MRSI_SS335_0.5				//
32	MRSI_SS336_0.0				HM8, PAN2G
33	MRSI_SS336_0.3				Hold cold
34	MRSI_SS336_0.5	↓		↓	//
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3921265
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	23-Jun-2025 1:12 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date*:	26-Jun-2025 4:30 pm

* As the samples require analysis at a Hill Labs location that is different to where they were received, the Target Date for reporting has been extended

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1 SS339 0 0 19 Jun 2025	Soil	PSoil500Asb, cPSoil125Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1 SS340 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1_SS341_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1_SS342_0.0 19-Jun-2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1 SS343 0 0 19 Jun 2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1 SS344 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1_SS317_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1_SS318_0.0 19-Jun-2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS319 0 0 19 Jun 2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1 SS320 0 0 19 Jun 2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS321_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1_SS322_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1_SS330_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1 SS331 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1 SS332 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
16	MRS1_SS333_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
17	MRS1_SS334_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1 SS335 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS336 0 0 19 Jun 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1_SS337_0.0 19-Jun-2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
21	MRS1_SS338_0.0 19-Jun-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-21
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-21
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1 21
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1 21
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1 21
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-21
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 21
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 21

ANALYSIS REQUEST

Hill Labs

Quote No 135144

Primary Contact s9(2)(a)

Submitted By

Client Name Beca Ltd

Address

Postcode

Phone Mobile s9(2)(a)

Email

Charge To

Client Reference 3011550 / 200 / 2.1

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☐ Email Submitter ☐ Email Client

☒ Email Other s9(2)(a)

☐ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: 392 6960

Date Recv: 30-Jun-25 16:21

Received by: s9(2)(a)

3139269607

s9(2)(a)

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

Date & Time: 30/6/25 4pm

Name: s9(2)(a)

☐ Tick if you require COC to be emailed back

Signature

Samples will be processed at a H capability and capacity. Please in retained and analysed at the site

Received at Hill Laboratories Date Name Signa

Temperature On Arrival

7.1 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRSI_SS144_0.0				HM7, PA to N2G
2	MRSI_SS145_0.0				HM7, PA to N2G
3	MRSI-SS145_0.3				Hold Cold
4	MRSI_SS145_0.5				↓
5	MRSI-SS145-0.8				
6	MRSI-SS145-1.0				
7	MRSI_SS146_0.0				HM7, PA to N2G
8	MRSI-SS146-0.3				Hold Cold
9	MRSI_SS146_0.5				↓
10	MRSI_SS146_1.0				
11	MRSI_SS147_0.0				HM7, PA to N2G
12	MRSI-SS351_0.0				
13	MRSI-SS351_0.3				Hold Cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI - SS351 - 0.5	Soil		30/6	Hold Cold
15	MRSI - SS352 - 0.0				HM7, PA to N2G
16	MRSI - SS352 - 0.3				Hold Cold
17	MRSI - SS352 - 0.5				" "
18	MRSI - SS352 - 0.7				" "
19	MRSI - SS352 - 1.0				" "
20	MRSI - SS353 - 0.0				HM7, PA to N2G
21	MRSI - SS353 - 0.3				Hold Cold
22	MRSI - SS353 - 0.5				" "
23	MRSI - SS353 - 0.7				" "
24	MRSI - SS353 - 1.0				" "
25	MRSI - SS354 - 0.0				HM7, PA to N2G
26	MRSI - SS354 - 0.3				Hold Cold
27	MRSI - SS354 - 0.5				" "
28	MRSI - SS354 - 0.7				" "
29	MRSI - SS354 - 1.0				" "
30	MRSI - SS347 - 0.0				HM7, PA to N2G
31	MRSI - SS347 - 0.3				Hold Cold
32	MRSI - SS347 - 0.5				" "
33	MRSI - SS347 - 0.7				" "
34	MRSI - SS347 - 1.0				" "
35	MRSI - QA21 "				HM7
36					
37					
38					
39					
40					
41					

Hill Labs

ANALYSIS REQUEST

Quote No 138144
Primary Contact s9(2)(a)
Submitted By
Client Name Beca Ltd
Address
Postcode
Phone *Mobile*
Email
Charge To
Client Reference 3011550 / 200 / 2.1
Order No

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

s9(2)(a)

Job No: **392 8389**
Date Recv: 01-Jul-25 17:14
Received by s9(2)(a)

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories
Date & Time: Fri 1/7/25 5pm
Name: s9(2)(a)
Signature: s9(2)(a)
☐ *Tick if you require COC to be emailed back*
Samples will be processed at a ... capability and capacity. Please ... retained and analysed at the sit...

Received at Hill Laboratories
Date
Nam
Sign

Temperature On Arrival
7.7 °C
Temperature was measured on one or more arbitrarily chosen samples in this batch.

Results To *Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.*
☒ *Email Primary Contact* ☐ *Email Submitter* ☐ *Email Client*
☐ *Email Other*
☐ *Other*

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High
☐ **Urgent** (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRSI-SS357_0.0	SOIL		1/7/25	HM7, PA to NZG
2	MRSI-SS357_0.3				Hold Gld
3	MRSI-SS357_0.5				" "
4	MRSI-SS358-0.0				HM7, PA to NZG
5	MRSI-SS358-0.3				Hold Gld
6	MRSI-SS358_0.5				" "
7	MRSI-SS359_0.0				HM7, PA to NZG
8	MRSI-SS359-0.3				Hold Gld
9	MRSI-SS359_0.5				" "
10	MRSI-SS360_0.0				HM7 PA to NZG
11	MRSI-SS360_0.3				Hold Gld
12	MRSI_SS360_0.5				" "
13	MRSI_SS361_0.0				HM7, PA to NZG

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI-SS361-0.3	Soil		2/7/25	Hold Cold
15	MRSI_SS345_0.6				HM7, PA to N2G
16	MRSI-SS345-0.3				Hold Cold
17	MRSI-SS345-0.5				" "
18	MRSI_SS345_0.7				" "
19	MRSI_SS345_1.0				" "
20	MRSI_SS355_0.6				HM7, PA to N2G
21	MRSI_SS355_0.3				Hold Cold
22	MRSI_SS355_0.5				" "
23	MRSI_SS355_0.7				" "
24	MRSI_SS355_1.0				" "
25	MRSI_SS356_0.0				HM7, PA to N2G
26	MRSI_SS356_0.3				Hold Cold
27	MRSI_SS356_0.5				" "
28	MRSI_SS356_0.7				" "
29	MRSI_SS356_1.0				" "
30	MRSI_SS354_0.6				HM7, PA to N2G
31	MRSI_SS354_0.3				Hold Cold
32	MRSI_SS354_0.5				" "
33	MRSI_SS354_0.7				" "
34	MRSI_SS354_1.0				" "
35	MRSI_SS348_0.6				HM7, PA to N2G
36	MRSI_SS348_0.3				Hold Cold
37	MRSI_SS348_0.5				" "
38	MRSI_SS348_0.7				" "
39	MRSI_SS348_1.0				" "
40	MRSI_SS349_0.0				HM7, PA to N2G
41	MRSI_SS349_0.3				Hold Cold

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRSI - SS349 - 0.5	SOIL		1/7/25	Hold Cold
15	MRSI - SS349 0.7	↓		↓	↓
16	MRSI - SS349 1.0				
17	MRSI - SS350 - 0.0				HM7, PA to N2G
18	MRSI - SS350 - 0.3				Hold Cold
19	MRSI - SS350 - 0.5				↓
20	MRSI - SS350 - 0.7				
21	MRSI - SS350 - 1.0				
22	MRSI - SS349 - 0.0				
23	MRSI - SS349 - 0.3				
24	MRSI - SS349 - 0.5				
25	MRSI - SS349 - 0.7				
26	MRSI - SS349 - 1.0				
27	MRSI - SSQA22				HM7
28	MRSI - SSQA23				↓
29	MRSI - QA24	↓		↓	
30	MRSI				
31	MRSI				
32	MRSI				
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3928389
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	02-Jul-2025 10:34 am
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 1/7/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	04-Jul-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS357_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS358_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS359 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS360 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS361_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS345_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS355 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS356 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS348 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS349_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS350_0.0 01-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS346 0 0 01 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-11

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 11
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-11
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-11
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-11
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 11
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-11
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-11

HillLabs

ANALYSIS REQUEST

Quote No 138144

Primary Contact s9(2)(a)

Submitted By

Client Name Beca

Address

Postcode

Phone Mobile

Email s9(2)(a)

Charge To 3011550 / 200 / 2.1

Client Reference

Order No

Results To Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

☒ Email Primary Contact ☑ Email Submitter ☐ Email Client

☑ Email Other s9(2)(a)

☑ Other

R J Hill Laboratories Limited
Ground Floor, 28 Heather Street
Parnell
Auckland 1052, New Zealand

Job No: **392 9356**

Date Recv: 02-Jul-25 16:01

s9(2)(a)

Received by: s9(2)(a)

CHAIN OF CUSTODY RECORD

Sent to Hill Laboratories

☑ Tick if you require COC to be emailed back

Date & Time: 2/7

Name: s9(2)(a)

Signature:

Samples will be processed at a H... capability and capacity. Please in... retained and analysed at the site ...

Received at Hill Laboratories

Date &

Name:

Signat

Temperature On Arrival

8.0 °C

Temperature was measured on one or more arbitrarily chosen samples in this batch.

ADDITIONAL INFORMATION

Priority ☐ Low ☒ Normal ☐ High

☐ Urgent (ASAP, extra charge applies, please contact lab first)

Requested Reporting Date:

*Please ensure all asbestos samples are **individually double bagged** upon submission to the laboratory.*

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
1	MRS1_SS362_0.0	Soil		2/7	HM8, PAH, TPH, PA + N2O
2	MRS1_SS362_0.3				Hold Cold
3	MRS1_SS362_0.5				Hold Cold
4	MRS1_SS364_0.0				HM8, PAH, TPH, PA + N2O
5	MRS1_SS365_0.0				
6	MRS1_SS366_0.0				
7	MRS1_SS367_0.0				
8	MRS1_SS368_0.0				
9	MRS1_SS369_0.0				
10	MRS1_SS370_0.0				
11	MRS1_SS371_0.0				
12	MRS1_SS372_0.0				
13	MRS1_SS373_0.0				

No.	Sample Name	Sample Material	Sample Location	Sample Date	Tests Required (if not as per Quote)
14	MRS1_SS373_0.3	Soil		2/7	Hold Cold
15	MRS1_SS373_0.5	↑		↑	" "
16	MRS1_SS374_0.0				HM8, PAH, TPH, PA & NZ
17	MRS1_SS374_0.3				Hold Cold
18	MRS1_SS375_0.0				HM8, PAH, TPH, PA & NZG
19	MRS1_SS376_0.0				↓
20	MRS1_SS377_0.0				
21	MRS1_SS378_0.0				
22	MRS1_SS378_0.3				Hold Cold
23	MRS1_SS379_0.0				HM8, PAH, TPH, PA & NZ
24	MRS1_SS380_0.0				↓
25	MRS1_SS381_0.0				
26	MRS1_SS381_0.3				Hold Cold
27	MRS1_SS382_0.0				HM8, PAH, TPH, PA & NZ
28	MRS1_SS382_0.3				↓
29	MRS1_SS382_0.5				
30	QA MRS1_QA25				HM8, PAH, TPH
31	MRS1_QA26				↓
32	MRS1_QA27	↓		↓	
33					
34					
35					
36					
37					
38					
39					
40					
41					

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand
s9(2)(a)

Job Information Summary

Client:	Beca Limited	**Lab No:**	3929356
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Registered:**	03-Jul-2025 1:39 pm
		Priority:	High
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 2/7/25
		Submitted By:	s9(2)(a)
		Charge To:	Beca Limited
		Target Date:	04-Jul-2025 4:30 pm

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
1	MRS1_SS362_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
2	MRS1_SS364_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
3	MRS1 SS365 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
4	MRS1 SS366 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
5	MRS1_SS367_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
6	MRS1_SS368_0.0 02-Jul-2025	Soil	cPSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
7	MRS1 SS369 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
8	MRS1 SS370 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
9	MRS1 SS371 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
10	MRS1_SS372_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
11	MRS1_SS373_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
12	MRS1 SS374 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
13	MRS1 SS375 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
14	MRS1_SS376_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
15	MRS1_SS377_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
16	MRS1 SS378 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Samples

No	Sample Name	Sample Type	Containers	Tests Requested
17	MRS1_SS379_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
18	MRS1_SS380_0.0 02-Jul-2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
19	MRS1 SS381 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer
20	MRS1 SS382 0 0 02 Jul 2025	Soil	PSoil125Asb, PSoil500Asb	Asbestos in Soil (Semi-Quant as required), Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 20
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1 20
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-20
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-20
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-20
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1 20
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3901013 A2Pv1
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	27-May-2025
		Date Reported:	03-Jun-2025
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Submitted By:	s9(2)(a)

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS01_0.0	3901013.1	198.7	153.0	57.0	Asbestos NOT detected.	-
MRS1_SS02_0.0	3901013.2	196.6	152.5	55.1	Asbestos NOT detected.	-
MRS1_SS03_0.0	3901013.3	133.8	77.9	43.9	Asbestos NOT detected.	-
MRS1_SS04_0.0	3901013.4	178.3	98.0	58.6	Asbestos NOT detected.	-
MRS1_SS05_0.0	3901013.5	143.9	76.4	28.2	Asbestos NOT detected.	-
MRS1_SS06_0.0	3901013.6	177.6	91.5	45.2	Asbestos NOT detected.	-
MRS1_SS07_0.0	3901013.7	137.0	90.2	47.0	Asbestos NOT detected.	-
MRS1_SS08_0.0	3901013.8	117.4	86.6	56.4	Asbestos NOT detected.	-
MRS1_SS09_0.0	3901013.9	154.0	98.0	52.8	Asbestos NOT detected.	-
MRS1_SS10_0.0	3901013.10	143.0	95.7	52.6	Asbestos NOT detected.	-
MRS1_SS11_0.0	3901013.11	122.2	84.6	44.4	Asbestos NOT detected.	-
MRS1_SS12_0.0	3901013.12	150.4	117.8	51.6	Asbestos NOT detected.	-
MRS1_SS13_0.0	3901013.13	110.1	88.8	53.3	Asbestos NOT detected.	-
MRS1_SS14_0.0	3901013.14	144.6	109.4	51.1	Asbestos NOT detected.	-
MRS1_SS16_0.0	3901013.15	146.8	104.0	52.7	Asbestos NOT detected.	-
MRS1_SS17_0.0	3901013.16	150.6	103.5	51.8	Asbestos NOT detected.	-
MRS1_SS18_0.0	3901013.17	163.2	106.2	55.2	Asbestos NOT detected.	-
MRS1_SS19_0.0	3901013.18	177.6	137.0	56.0	Asbestos NOT detected.	-
MRS1_SS20_0.0	3901013.19	166.0	109.7	53.1	Asbestos NOT detected.	-
MRS1_SS21_0.0	3901013.20	157.5	114.1	58.9	Asbestos NOT detected.	-
MRS1_SS38_0.0	3901013.21	128.9	89.9	53.4	Asbestos NOT detected.	-
MRS1_SS39_0.0	3901013.22	149.1	109.7	58.2	Asbestos NOT detected.	-
MRS1_SS40_0.0	3901013.23	152.3	111.5	58.3	Asbestos NOT detected.	-
MRS1_SS44_0.0	3901013.24	155.8	108.0	50.8	Asbestos NOT detected.	-
MRS1_SS45_0.0	3901013.25	141.1	95.0	54.2	Asbestos NOT detected.	-
MRS1_SS46_0.0	3901013.26	138.2	95.6	57.7	Asbestos NOT detected.	-
MRS1_SS47_0.0	3901013.27	125.6	86.0	54.3	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-27
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-27
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-27
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-27
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-27
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-27
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-27
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-27

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 03-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand
s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3902932	A2Pv1
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	29-May-2025	
		Date Reported:	04-Jun-2025	
		Quote No:	138144	
		Order No:	3011550/200/2.1	
		Client Reference:	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS22_0.0	3902932.1	144.5	107.4	44.1	Asbestos NOT detected.	-
MRS1_SS23_0.0	3902932.2	147.2	91.8	44.1	Asbestos NOT detected.	-
MRS1_SS24_0.0	3902932.3	133.0	90.7	54.3	Asbestos NOT detected.	-
MRS1_SS25_0.0	3902932.4	169.9	116.6	48.0	Asbestos NOT detected.	-
MRS1_SS26_0.0	3902932.5	158.1	113.9	36.9	Asbestos NOT detected.	-
MRS1_SS27_0.0	3902932.6	137.3	99.1	22.7	Asbestos NOT detected.	-
MRS1_SS28_0.0	3902932.7	148.8	121.4	38.1	Asbestos NOT detected.	-
MRS1_SS29_0.0	3902932.8	128.4	85.9	21.6	Asbestos NOT detected.	-
MRS1_SS30_0.0	3902932.9	185.2	143.8	54.8	Asbestos NOT detected.	-
MRS1_SS31_0.0	3902932.10	171.6	122.6	52.7	Asbestos NOT detected.	-
MRS1_SS32_0.0	3902932.11	163.1	127.2	38.6	Asbestos NOT detected.	-
MRS1_SS33_0.0	3902932.12	178.6	133.1	57.7	Asbestos NOT detected.	-
MRS1_SS34_0.0	3902932.13	176.1	132.4	54.5	Asbestos NOT detected.	-
MRS1_SS36_0.0	3902932.15	125.9	97.6	41.5	Asbestos NOT detected.	-
MRS1_SS37_0.0	3902932.16	144.0	116.5	70.6	Asbestos NOT detected.	-
MRS1_SS48_0.0	3902932.17	165.6	121.6	37.5	Asbestos NOT detected.	-
MRS1_SS49_0.0	3902932.18	118.3	78.7	23.5	Asbestos NOT detected.	-
MRS1_SS50_0.0	3902932.19	113.5	79.4	31.9	Asbestos NOT detected.	-
MRS1_SS51_0.0	3902932.20	137.8	95.2	29.3	Asbestos NOT detected.	-
MRS1_SS52_0.0	3902932.21	142.3	92.5	30.6	Asbestos NOT detected.	-
MRS1_SS53_0.0	3902932.22	124.2	82.1	29.9	Asbestos NOT detected.	-
MRS1_SS54_0.0	3902932.23	147.4	93.4	39.9	Asbestos NOT detected.	-
MRS1_SS55_0.0	3902932.24	184.2	118.5	31.0	Asbestos NOT detected.	-
MRS1_SS56_0.0	3902932.25	147.0	89.4	32.5	Asbestos NOT detected.	-
MRS1_SS57_0.0	3902932.26	125.3	80.6	19.3	Asbestos NOT detected.	-
MRS1_SS58_0.0	3902932.27	138.5	92.2	23.1	Asbestos NOT detected.	-
MRS1_SS59_0.0	3902932.28	175.6	120.1	33.0	Asbestos NOT detected.	-
MRS1_SS60_0.0	3902932.29	169.9	109.8	26.9	Asbestos NOT detected.	-
MRS1_SS61_0.0	3902932.30	185.0	123.0	35.6	Asbestos NOT detected.	-
MRS1_SS62_0.0	3902932.31	164.2	114.5	33.5	Asbestos NOT detected.	-
MRS1_SS63_0.0	3902932.32	159.2	108.5	38.2	Asbestos NOT detected.	-

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
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Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-13, 15-32
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-13, 15-32
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-13, 15-32
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-13, 15-32
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-13, 15-32
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-13, 15-32
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-13, 15-32
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-13, 15-32

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 03-Jun-2025 and 04-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3903445	A2Pv2
Contact:	s9(2)(a)	**Date Received:**	29-May-2025	
	C/- Beca Limited	**Date Reported:**	11-Jun-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Add. Client Ref:	Sampled 29/05/25	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS87_0.0	3903445.1	154.1	113.9	36.0	Asbestos NOT detected.	-
MRS1_SS88_0.0	3903445.2	180.1	136.4	38.1	Asbestos NOT detected.	-
MRS1_SS89_0.0	3903445.3	160.3	124.6	31.2	Asbestos NOT detected.	-
MRS1_SS90_0.0	3903445.4	178.5	131.7	46.4	Chrysotile (White Asbestos) detected.	Loose fibres (minor)
MRS1_SS91_0.0	3903445.5	165.5	121.4	39.4	Asbestos NOT detected.	-
MRS1_SS92_0.0	3903445.6	145.0	105.8	41.0	Asbestos NOT detected.	-
MRS1_SS64_0.0	3903445.7	190.0	134.0	55.5	Asbestos NOT detected.	-
MRS1_SS65_0.0	3903445.8	170.9	117.0	25.6	Asbestos NOT detected.	-
MRS1_SS66_0.0	3903445.9	160.8	111.5	41.8	Asbestos NOT detected.	-
MRS1_SS67_0.0	3903445.10	177.7	121.0	58.1	Asbestos NOT detected.	-
MRS1_SS68_0.0	3903445.11	169.2	117.8	50.8	Asbestos NOT detected.	-
MRS1_SS69_0.0	3903445.12	202.8	134.5	44.6	Asbestos NOT detected.	-
MRS1_SS70_0.0	3903445.13	114.4	70.6	23.2	Asbestos NOT detected.	-
MRS1_SS71_0.0	3903445.14	138.0	81.8	22.5	Asbestos NOT detected.	-
MRS1_SS72_0.0	3903445.15	130.8	79.8	22.9	Asbestos NOT detected.	-
MRS1_SS73_0.0	3903445.16	178.3	119.5	42.2	Asbestos NOT detected.	-
MRS1_SS74_0.0	3903445.17	164.5	146.1	19.4	Asbestos NOT detected.	-
MRS1_SS75_0.0	3903445.18	162.9	114.2	44.0	Asbestos NOT detected.	-
MRS1_SS76_0.0	3903445.19	136.3	92.5	38.4	Asbestos NOT detected.	-
MRS1_SS77_0.0	3903445.20	171.4	122.1	52.3	Asbestos NOT detected.	-
MRS1_SS78_0.0	3903445.21	145.2	102.3	40.0	Asbestos NOT detected.	-
MRS1_SS79_0.0	3903445.22	148.1	104.8	46.5	Asbestos NOT detected.	-
MRS1_SS80_0.0	3903445.23	167.8	123.1	54.5	Asbestos NOT detected.	-
MRS1_SS81_0.0	3903445.24	175.6	133.3	50.4	Asbestos NOT detected.	-
MRS1_SS82_0.0	3903445.25	170.1	115.9	47.2	Asbestos NOT detected.	-
MRS1_SS84_0.0	3903445.26	172.8	127.7	47.1	Asbestos NOT detected.	-
MRS1_SS85_0.0	3903445.27	165.1	121.0	52.0	Asbestos NOT detected.	-
MRS1_SS86_0.0	3903445.28	164.9	123.8	45.7	Asbestos NOT detected.	-

Sample Type: Soil

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Sample Type: Soil		
Sample Name:		MRS1_SS90_0.0 29-May-2025
Lab Number:		3903445.4
Asbestos Presence / Absence		Asbestos NOT detected.
Description of Asbestos Form		-
Asbestos in ACM as % of Total Sample*	% w/w	< 0.001
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample*	% w/w	< 0.001
Asbestos as Fibrous Asbestos as % of Total Sample*	% w/w	< 0.001
Asbestos as Asbestos Fines as % of Total Sample*	% w/w	< 0.001
As Received Weight	g	554.2
Dry Weight	g	403.1
Moisture*	%	27
Sample Fraction >10mm*	g dry wt	4.0
Sample Fraction <10mm to >2mm*	g dry wt	252.8
Sample Fraction <2mm*	g dry wt	145.7
<2mm Subsample Weight*	g dry wt	53.2
Weight of Asbestos in ACM (Non-Friable)	g dry wt	< 0.00001
Weight of Asbestos as Fibrous Asbestos (Friable)*	g dry wt	< 0.00001
Weight of Asbestos as Asbestos Fines (Friable)*	g dry wt	< 0.00001

Glossary of Terms

• Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
• Trace - Trace levels of asbestos, as defined by AS4964-2004.
For further details, please contact the Asbestos Team.

Please refer to the BRANZ New Zealand Guidelines for Assessing and Managing Asbestos in Soil.
https://www.branz.co.nz/asbestos

The following assumptions have been made:

1. Asbestos Fines in the <2mm fraction, after homogenisation, is evenly distributed throughout the fraction
2. The weight of asbestos in the sample is unaffected by the ashing process.

Results are representative of the sample provided to Hill Laboratories only.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-28
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-28
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-28
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-28

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-28
New Zealand Guidelines Semi Quantitative Asbestos in Soil			
As Received Weight	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	4
Dry Weight	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	4
Moisture*	Sample dried at 100 to 105°C. Calculation = (As received weight - Dry weight) / as received weight x 100.	1 %	4
Sample Fraction >10mm*	Sample dried at 100 to 105°C, 10mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	4
Sample Fraction <10mm to >2mm*	Sample dried at 100 to 105°C, 10mm and 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	4
Sample Fraction <2mm*	Sample dried at 100 to 105°C, 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	4
Asbestos Presence / Absence	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	4
Description of Asbestos Form	Description of asbestos form and/or shape if present.	-	4
Weight of Asbestos in ACM (Non-Friable)	Measurement on analytical balance, from the >10mm Fraction. Weight of asbestos based on assessment of ACM form. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	4
Asbestos in ACM as % of Total Sample*	Calculated from weight of asbestos in ACM and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	4
Weight of Asbestos as Fibrous Asbestos (Friable)*	Measurement on analytical balance, from the >10mm Fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	4
Asbestos as Fibrous Asbestos as % of Total Sample*	Calculated from weight of fibrous asbestos and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	4
Weight of Asbestos as Asbestos Fines (Friable)*	Measurement on analytical balance, from the <10mm Fractions. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	4
Asbestos as Asbestos Fines as % of Total Sample*	Calculated from weight of asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	4
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample*	Calculated from weight of fibrous asbestos plus asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	4
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 09-Jun-2025 and 11-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3907095 A2Pv1
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	03-Jun-2025
		Date Reported:	09-Jun-2025
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 03/06/25
		Submitted By:	s9(2)(a)

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS100_0.0	3907095.1	126.1	80.8	59.7	Asbestos NOT detected.	-
MRS1_SS101_0.0	3907095.2	145.6	106.5	54.9	Asbestos NOT detected.	-
MRS1_SS102_0.0	3907095.3	131.8	86.1	56.2	Asbestos NOT detected.	-
MRS1_SS103_0.0	3907095.4	196.6	180.3	25.3	Asbestos NOT detected.	-
MRS1_SS105_0.0	3907095.5	131.8	90.0	42.7	Asbestos NOT detected.	-
MRS1_SS106_0.0	3907095.6	129.0	89.6	39.1	Asbestos NOT detected.	-
MRS1_SS107_0.0	3907095.7	164.4	109.9	55.0	Asbestos NOT detected.	-
MRS1_SS108_0.0	3907095.8	139.7	93.2	35.0	Asbestos NOT detected.	-
MRS1_SS109_0.0	3907095.9	159.7	105.9	53.7	Asbestos NOT detected.	-
MRS1_SS112_0.0	3907095.10	175.6	132.3	51.8	Asbestos NOT detected.	-
MRS1_SS113_0.0	3907095.11	145.2	98.7	50.4	Asbestos NOT detected.	-
MRS1_SS114_0.0	3907095.12	131.3	103.0	53.7	Asbestos NOT detected.	-
MRS1_SS115_0.0	3907095.13	176.4	135.2	56.2	Asbestos NOT detected.	-
MRS1_SS116_0.0	3907095.14	173.1	139.4	49.8	Asbestos NOT detected.	-
MRS1_SS93_0.0	3907095.15	191.3	127.2	53.6	Asbestos NOT detected.	-
MRS1_SS94_0.0	3907095.16	173.6	119.9	52.7	Asbestos NOT detected.	-
MRS1_SS96_0.0	3907095.17	195.1	149.9	32.2	Asbestos NOT detected.	-
MRS1_SS97_0.0	3907095.18	163.9	110.5	42.3	Asbestos NOT detected.	-
MRS1_SS98_0.0	3907095.19	137.8	95.6	53.0	Asbestos NOT detected.	-
MRS1_SS99_0.0	3907095.20	136.6	107.7	50.6	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-20
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-20
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-20
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-20
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-20
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 09-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3908296	A2Pv2
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	04-Jun-2025	
		Date Reported:	11-Jun-2025	
		Quote No:	138144	
		Order No:	301/550/200/2.1	
		Client Reference:	301/550/200/2.1	
		Add. Client Ref:	Sampled 04/06/25	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS127_0.0	3908296.1	179.0	141.4	29.3	Asbestos NOT detected.	-
MRS1_SS128_0.0	3908296.2	165.9	113.3	41.4	Asbestos NOT detected.	-
MRS1_SS129_0.0	3908296.3	198.6	130.6	56.6	Asbestos NOT detected.	-
MRS1_SS130_0.0	3908296.4	184.2	137.8	44.0	Asbestos NOT detected.	-
MRS1_SS131_0.0	3908296.5	206.9	171.9	56.7	Asbestos NOT detected.	-
MRS1_SS132_0.0	3908296.6	226.6	176.1	59.1	Asbestos NOT detected.	-
MRS1_SS133_0.0	3908296.7	258.9	212.2	43.7	Amosite (Brown Asbestos) and Chrysotile (White Asbestos) detected.	Loose fibres (minor)
MRS1_SS134_0.0	3908296.8	281.2	219.0	51.8	Asbestos NOT detected.	-

Sample Type: Soil

Sample Name:		MRS1_SS133_0.0 04-Jun-2025
Lab Number:		3908296.7
Asbestos Presence / Absence		Amosite (Brown Asbestos) and Chrysotile (White Asbestos) detected.
Description of Asbestos Form		Loose fibres
Asbestos in ACM as % of Total Sample*	% w/w	< 0.001
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample*	% w/w	< 0.001
Asbestos as Fibrous Asbestos as % of Total Sample*	% w/w	< 0.001
Asbestos as Asbestos Fines as % of Total Sample*	% w/w	< 0.001
As Received Weight	g	983.8
Dry Weight	g	815.4
Moisture*	%	17
Sample Fraction >10mm*	g dry wt	236.8
Sample Fraction <10mm to >2mm*	g dry wt	419.6
Sample Fraction <2mm*	g dry wt	158.5
<2mm Subsample Weight*	g dry wt	52.4
Weight of Asbestos in ACM (Non-Friable)	g dry wt	< 0.00001
Weight of Asbestos as Fibrous Asbestos (Friable)*	g dry wt	< 0.00001
Weight of Asbestos as Asbestos Fines (Friable)*	g dry wt	0.00130

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• Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
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• ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
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• Trace - Trace levels of asbestos, as defined by AS4964-2004.
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https://www.branz.co.nz/asbestos

The following assumptions have been made:

1. Asbestos Fines in the <2mm fraction, after homogenisation, is evenly distributed throughout the fraction
2. The weight of asbestos in the sample is unaffected by the ashing process.

Results are representative of the sample provided to Hill Laboratories only.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-8
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-8
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-8
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-8
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-8
New Zealand Guidelines Semi Quantitative Asbestos in Soil			
As Received Weight	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	7
Dry Weight	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	7
Moisture*	Sample dried at 100 to 105°C. Calculation = (As received weight - Dry weight) / as received weight x 100.	1 %	7
Sample Fraction >10mm*	Sample dried at 100 to 105°C, 10mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	7
Sample Fraction <10mm to >2mm*	Sample dried at 100 to 105°C, 10mm and 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	7
Sample Fraction <2mm*	Sample dried at 100 to 105°C, 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	7
Asbestos Presence / Absence	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	7
Description of Asbestos Form	Description of asbestos form and/or shape if present.	-	7
Weight of Asbestos in ACM (Non-Friable)	Measurement on analytical balance, from the >10mm Fraction. Weight of asbestos based on assessment of ACM form. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	7

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in ACM as % of Total Sample*	Calculated from weight of asbestos in ACM and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	7
Weight of Asbestos as Fibrous Asbestos (Friable)*	Measurement on analytical balance, from the >10mm Fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	7
Asbestos as Fibrous Asbestos as % of Total Sample*	Calculated from weight of fibrous asbestos and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	7
Weight of Asbestos as Asbestos Fines (Friable)*	Measurement on analytical balance, from the <10mm Fractions. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	7
Asbestos as Asbestos Fines as % of Total Sample*	Calculated from weight of asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	7
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample*	Calculated from weight of fibrous asbestos plus asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	7
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-8
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-8
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-8

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 09-Jun-2025 and 11-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3909517 A2Pv1
Contact:	s9(2)(a)	**Date Received:**	05-Jun-2025
	C/- Beca Limited	**Date Reported:**	13-Jun-2025
	PO Box 6345	**Quote No:**	138144
	Wellesley Street	**Order No:**	3011550/200/2.1
	Auckland 1141	**Client Reference:**	3011550/200/2.1
		Submitted By:	s9(2)(a)

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS135_0.0	3909517.1	228.0	185.0	52.2	Asbestos NOT detected.	-
MRS1_SS136_0.0	3909517.2	181.9	135.9	52.7	Asbestos NOT detected.	-
MRS1_SS137_0.0	3909517.3	206.3	171.4	53.3	Asbestos NOT detected.	-
MRS1_SS138_0.0	3909517.4	176.3	151.8	51.8	Asbestos NOT detected.	-
MRS1_SS139_0.0	3909517.5	185.4	121.6	51.3	Asbestos NOT detected.	-
MRS1_SS140_0.0	3909517.6	223.5	142.9	51.4	Asbestos NOT detected.	-
MRS1_SS141_0.0	3909517.7	183.4	115.4	56.3	Asbestos NOT detected.	-
MRS1_SS142_0.0	3909517.8	223.3	151.0	50.6	Asbestos NOT detected.	-
MRS1_SS143_0.0	3909517.9	207.8	128.6	55.7	Asbestos NOT detected.	-
MRS1_SS167_0.0	3909517.10	239.6	171.0	57.1	Asbestos NOT detected.	-
MRS1_SS168_0.0	3909517.11	230.3	135.0	53.3	Asbestos NOT detected.	-
MRS1_SS169_0.0	3909517.12	174.7	128.7	55.4	Asbestos NOT detected.	-
MRS1_SS170_0.0	3909517.13	151.4	109.8	55.9	Asbestos NOT detected.	-
MRS1_SS171_0.0	3909517.14	202.0	140.9	57.2	Asbestos NOT detected.	-
MRS1_SS172_0.0	3909517.15	208.3	141.5	54.3	Asbestos NOT detected.	-
MRS1_SS173_0.0	3909517.16	180.6	119.6	51.1	Asbestos NOT detected.	-
MRS1_SS174_0.0	3909517.17	715.4	505.7	51.3	Asbestos NOT detected.	-
MRS1_SS175_0.0	3909517.18	700.9	513.8	51.2	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-18
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-18
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-18
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-18
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 11-Jun-2025 and 13-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Team Leader - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3907095 A2Pv1
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	03-Jun-2025
		Date Reported:	09-Jun-2025
		Quote No:	138144
		Order No:	3011550/200/2.1
		Client Reference:	3011550/200/2.1
		Add. Client Ref:	Sampled 03/06/25
		Submitted By:	s9(2)(a)

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS100_0.0	3907095.1	126.1	80.8	59.7	Asbestos NOT detected.	-
MRS1_SS101_0.0	3907095.2	145.6	106.5	54.9	Asbestos NOT detected.	-
MRS1_SS102_0.0	3907095.3	131.8	86.1	56.2	Asbestos NOT detected.	-
MRS1_SS103_0.0	3907095.4	196.6	180.3	25.3	Asbestos NOT detected.	-
MRS1_SS105_0.0	3907095.5	131.8	90.0	42.7	Asbestos NOT detected.	-
MRS1_SS106_0.0	3907095.6	129.0	89.6	39.1	Asbestos NOT detected.	-
MRS1_SS107_0.0	3907095.7	164.4	109.9	55.0	Asbestos NOT detected.	-
MRS1_SS108_0.0	3907095.8	139.7	93.2	35.0	Asbestos NOT detected.	-
MRS1_SS109_0.0	3907095.9	159.7	105.9	53.7	Asbestos NOT detected.	-
MRS1_SS112_0.0	3907095.10	175.6	132.3	51.8	Asbestos NOT detected.	-
MRS1_SS113_0.0	3907095.11	145.2	98.7	50.4	Asbestos NOT detected.	-
MRS1_SS114_0.0	3907095.12	131.3	103.0	53.7	Asbestos NOT detected.	-
MRS1_SS115_0.0	3907095.13	176.4	135.2	56.2	Asbestos NOT detected.	-
MRS1_SS116_0.0	3907095.14	173.1	139.4	49.8	Asbestos NOT detected.	-
MRS1_SS93_0.0	3907095.15	191.3	127.2	53.6	Asbestos NOT detected.	-
MRS1_SS94_0.0	3907095.16	173.6	119.9	52.7	Asbestos NOT detected.	-
MRS1_SS96_0.0	3907095.17	195.1	149.9	32.2	Asbestos NOT detected.	-
MRS1_SS97_0.0	3907095.18	163.9	110.5	42.3	Asbestos NOT detected.	-
MRS1_SS98_0.0	3907095.19	137.8	95.6	53.0	Asbestos NOT detected.	-
MRS1_SS99_0.0	3907095.20	136.6	107.7	50.6	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-20
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-20
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-20
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-20
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-20
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 09-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3913064	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	10-Jun-2025	
	C/- Beca Limited	**Date Reported:**	13-Jun-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS209_0.0	3913064.1	194.1	131.7	33.5	Asbestos NOT detected.	-
MRS1_SS210_0.0	3913064.2	159.3	98.8	60.0	Asbestos NOT detected.	-
MRS1_SS211_0.0	3913064.3	135.2	90.7	52.2	Asbestos NOT detected.	-
MRS1_SS212_0.0	3913064.4	172.6	113.2	50.9	Asbestos NOT detected.	-
MRS1_SS213_0.0	3913064.5	166.5	109.8	35.7	Asbestos NOT detected.	-
MRS1_SS214_0.0	3913064.6	213.0	131.4	28.7	Asbestos NOT detected.	-
MRS1_SS215_0.0	3913064.7	140.0	93.6	27.0	Asbestos NOT detected.	-
MRS1_SS216_0.0	3913064.8	194.5	127.0	32.8	Asbestos NOT detected.	-
MRS1_SS217_0.0	3913064.9	190.2	126.8	35.7	Asbestos NOT detected.	-
MRS1_SS301_0.0	3913064.10	169.4	129.4	61.1	Asbestos NOT detected.	-
MRS1_SS303_0.0	3913064.11	193.6	149.6	61.5	Asbestos NOT detected.	-
MRS1_SS304_0.0	3913064.12	212.1	155.8	40.1	Asbestos NOT detected.	-
MRS1_SS305_0.0	3913064.13	201.1	152.1	57.5	Asbestos NOT detected.	-
MRS1_SS306_0.0	3913064.14	192.6	114.7	38.1	Asbestos NOT detected.	-
MRS1_SS307_0.0	3913064.15	174.8	113.4	28.3	Asbestos NOT detected.	-
MRS1_SS308_0.0	3913064.16	167.3	94.2	22.8	Asbestos NOT detected.	-
MRS1_SS309_0.0	3913064.17	128.5	75.4	23.5	Asbestos NOT detected.	-
MRS1_SS310_0.0	3913064.18	172.1	105.6	38.6	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-18

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-18
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-18
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-18
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-18
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-18

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 13-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3914256	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	11-Jun-2025	
	C/- Beca Limited	**Date Reported:**	17-Jun-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS218_0.0	3914256.1	138.0	99.7	52.0	Asbestos NOT detected.	-
MRS1_SS219_0.0	3914256.2	143.2	108.1	38.0	Asbestos NOT detected.	-
MRS1_SS220_0.0	3914256.3	168.9	121.2	36.8	Asbestos NOT detected.	-
MRS1_SS221_0.0	3914256.4	171.3	127.1	35.0	Asbestos NOT detected.	-
MRS1_SS222_0.0	3914256.5	205.3	142.3	41.2	Asbestos NOT detected.	-
MRS1_SS223_0.0	3914256.6	163.2	109.8	45.4	Asbestos NOT detected.	-
MRS1_SS224_0.0	3914256.7	176.2	117.6	66.0	Asbestos NOT detected.	-
MRS1_SS225_0.0	3914256.8	176.9	110.7	44.9	Asbestos NOT detected.	-
MRS1_SS226_0.0	3914256.9	193.4	126.7	38.2	Asbestos NOT detected.	-
MRS1_SS227_0.0	3914256.10	172.7	107.4	48.3	Asbestos NOT detected.	-
MRS1_SS228_0.0	3914256.11	137.9	84.8	45.9	Asbestos NOT detected.	-
MRS1_SS323_0.0	3914256.12	162.1	121.0	38.5	Asbestos NOT detected.	-
MRS1_SS324_0.0	3914256.13	184.7	132.6	46.2	Asbestos NOT detected.	-
MRS1_SS325_0.0	3914256.14	185.6	132.7	40.0	Asbestos NOT detected.	-
MRS1_SS326_0.0	3914256.15	221.8	153.3	51.0	Asbestos NOT detected.	-
MRS1_SS327_0.0	3914256.16	163.2	102.6	26.9	Asbestos NOT detected.	-
MRS1_SS328_0.0	3914256.17	175.1	117.8	39.4	Asbestos NOT detected.	-
MRS1_SS329_0.0	3914256.18	194.2	109.8	27.4	Asbestos NOT detected.	-
MRS1_SS181_0.0	3914256.19	201.6	131.4	37.6	Asbestos NOT detected.	-
MRS1_SS182_0.0	3914256.20	205.5	148.6	33.2	Asbestos NOT detected.	-
MRS1_SS183_0.0	3914256.21	143.9	103.6	43.4	Asbestos NOT detected.	-
MRS1_SS184_0.0	3914256.22	171.3	101.3	33.0	Asbestos NOT detected.	-
MRS1_SS185_0.0	3914256.23	164.9	114.9	46.2	Asbestos NOT detected.	-
MRS1_SS187_0.0	3914256.24	145.1	122.1	65.6	Asbestos NOT detected.	-
MRS1_SS188_0.0	3914256.25	158.4	111.2	39.2	Asbestos NOT detected.	-
MRS1_SS189_0.0	3914256.26	172.7	121.0	50.1	Asbestos NOT detected.	-
MRS1_SS190_0.0	3914256.27	189.3	119.1	32.8	Asbestos NOT detected.	-
MRS1_SS191_0.0	3914256.28	202.9	147.0	41.6	Asbestos NOT detected.	-
MRS1_SS192_0.0	3914256.29	163.2	116.5	32.0	Asbestos NOT detected.	-

This Laboratory is accredited by International Accreditation New Zealand (IANZ), which represents New Zealand in the International Laboratory Accreditation Cooperation (ILAC). Through the ILAC Mutual Recognition Arrangement (ILAC-MRA) this accreditation is internationally recognised.
The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Glossary of Terms

• Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
• Trace - Trace levels of asbestos, as defined by AS4964-2004.
For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-29
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-29
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-29
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-29
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-29
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-29
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-29
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-29

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 16-Jun-2025 and 17-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.

s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3915679 A2Pv1
Contact:	s9(2)(a)	**Date Received:**	13-Jun-2025
	C/- Beca Limited	**Date Reported:**	18-Jun-2025
	PO Box 6345	**Quote No:**	138144
	Wellesley Street	**Order No:**	3011550/200/2.1
	Auckland 1141	**Client Reference:**	3011550/200/2.1
		Submitted By:	s9(2)(a)

Interim Report

This is an interim report, prepared before all test results are completed. As all final Q.C. checks may not have been possible, it is not regarded as an official certificate of analysis. The final, official report will be issued upon completion of all tests.

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS193_0.0	3915679.1	218.3	145.2	50.9	Asbestos NOT detected.	-
MRS1_SS194_0.0	3915679.2	151.8	109.8	51.0	Asbestos NOT detected.	-
MRS1_SS195_0.0	3915679.3	201.2	142.3	50.4	Asbestos NOT detected.	-
MRS1_SS197_0.0	3915679.4	215.4	137.6	50.5	Asbestos NOT detected.	-
MRS1_SS198_0.0	3915679.5	181.3	118.8	50.0	Asbestos NOT detected.	-
MRS1_SS199_0.0	3915679.6	226.0	130.9	51.0	Asbestos NOT detected.	-
MRS1_SS200_0.0	3915679.7	172.4	101.5	50.7	Asbestos NOT detected.	-
MRS1_SS201_0.0	3915679.8	182.4	108.0	51.0	Asbestos NOT detected.	-
MRS1_SS202_0.0	3915679.9	218.7	159.0	50.9	Asbestos NOT detected.	-
MRS1_SS203_0.0	3915679.10	200.4	159.6	58.0	Asbestos NOT detected.	-
MRS1_SS229_0.0	3915679.11	175.2	125.9	50.4	Asbestos NOT detected.	-
MRS1_SS230_0.0	3915679.12	169.2	120.5	54.5	Asbestos NOT detected.	-
MRS1_SS231_0.0	3915679.13	161.2	121.6	58.8	Asbestos NOT detected.	-
MRS1_SS232_0.0	3915679.14	182.1	115.3	57.0	Amosite (Brown Asbestos) and Chrysotile (White Asbestos) detected.	ACM debris (major)
MRS1_SS233_0.0	3915679.15	176.7	124.8	51.6	Asbestos NOT detected.	-
MRS1_SS235_0.0	3915679.16	164.6	104.2	56.1	Asbestos NOT detected.	-
MRS1_SS236_0.0	3915679.17	194.6	139.4	59.8	Asbestos NOT detected.	-
MRS1_SS237_0.0	3915679.18	190.4	141.7	51.7	Asbestos NOT detected.	-
MRS1_SS238_0.0	3915679.19	201.7	110.8	57.4	Asbestos NOT detected.	-
MRS1_SS239_0.0	3915679.20	177.2	128.1	52.6	Asbestos NOT detected.	-
MRS1_SS240_0.0	3915679.21	179.6	122.7	51.0	Asbestos NOT detected.	-
MRS1_SS241_0.0	3915679.22	195.2	160.4	56.4	Asbestos NOT detected.	-
MRS1_SS242_0.0	3915679.23	181.6	140.7	59.3	Asbestos NOT detected.	-
MRS1_SS243_0.0	3915679.24	192.1	126.3	60.0	Asbestos NOT detected.	-
MRS1_SS244_0.0	3915679.25	148.3	92.0	58.8	Asbestos NOT detected.	-
MRS1_SS245_0.0	3915679.26	186.0	130.6	58.3	Asbestos NOT detected.	-
MRS1_SS246_0.0	3915679.27	140.7	94.4	59.0	Asbestos NOT detected.	-
MRS1_SS247_0.0	3915679.28	136.1	83.2	52.4	Asbestos NOT detected.	-

Sample Type: Soil

Sample Name:		MRS1_SS232_0.0 12-Jun-2025
Lab Number:		3915679.14
Asbestos Presence / Absence		In Progress
Description of Asbestos Form		In Progress
Asbestos in ACM as % of Total Sample	% w/w	In Progress

Sample Type: Soil		
Sample Name:		MRS1_SS232_0.0 12-Jun-2025
Lab Number:		3915679.14
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample	% w/w	In Progress
Asbestos as Fibrous Asbestos as % of Total Sample	% w/w	In Progress
Asbestos as Asbestos Fines as % of Total Sample	% w/w	In Progress
As Received Weight	g	In Progress
Dry Weight	g	In Progress
Moisture	%	In Progress
Sample Fraction >10mm	g dry wt	In Progress
Sample Fraction <10mm to >2mm	g dry wt	In Progress
Sample Fraction <2mm	g dry wt	In Progress
<2mm Subsample Weight	g dry wt	In Progress
Weight of Asbestos in ACM (Non-Friable)	g dry wt	In Progress
Weight of Asbestos as Fibrous Asbestos (Friable)	g dry wt	In Progress
Weight of Asbestos as Asbestos Fines (Friable)	g dry wt	In Progress

Glossary of Terms

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• Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
• Trace - Trace levels of asbestos, as defined by AS4964-2004.
For further details, please contact the Asbestos Team.

Please refer to the BRANZ New Zealand Guidelines for Assessing and Managing Asbestos in Soil.
https://www.branz.co.nz/asbestos

The following assumptions have been made:

1. Asbestos Fines in the <2mm fraction, after homogenisation, is evenly distributed throughout the fraction
2. The weight of asbestos in the sample is unaffected by the ashing process.

Results are representative of the sample provided to Hill Laboratories only.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-28
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-28
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-28
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-28
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-28

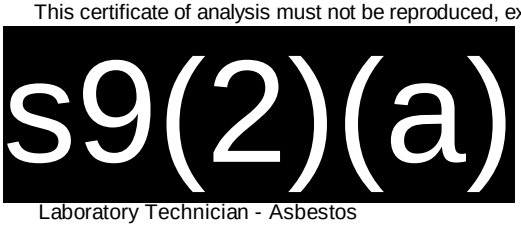
Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
New Zealand Guidelines Semi Quantitative Asbestos in Soil			
As Received Weight	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	14
Dry Weight	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	14
Moisture	Sample dried at 100 to 105°C. Calculation = (As received weight - Dry weight) / as received weight x 100.	1 %	14
Sample Fraction >10mm	Sample dried at 100 to 105°C, 10mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g dry wt	14
Sample Fraction <10mm to >2mm	Sample dried at 100 to 105°C, 10mm and 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g dry wt	14
Sample Fraction <2mm	Sample dried at 100 to 105°C, 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g dry wt	14
Asbestos Presence / Absence	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	14
Description of Asbestos Form	Description of asbestos form and/or shape if present.	-	14
Weight of Asbestos in ACM (Non-Friable)	Measurement on analytical balance, from the >10mm Fraction. Weight of asbestos based on assessment of ACM form. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	14
Asbestos in ACM as % of Total Sample	Calculated from weight of asbestos in ACM and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	14
Weight of Asbestos as Fibrous Asbestos (Friable)	Measurement on analytical balance, from the >10mm Fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	14
Asbestos as Fibrous Asbestos as % of Total Sample	Calculated from weight of fibrous asbestos and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	14
Weight of Asbestos as Asbestos Fines (Friable)	Measurement on analytical balance, from the <10mm Fractions. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	14
Asbestos as Asbestos Fines as % of Total Sample	Calculated from weight of asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	14
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample	Calculated from weight of fibrous asbestos plus asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	14
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-28

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 18-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

This certificate of analysis must not be reproduced, except in full, without the written consent of the signatory.



Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3916219	A2Pv1
Contact:	s9(2)(a) C/- Beca Limited PO Box 6345 Wellesley Street Auckland 1141	**Date Received:**	13-Jun-2025	
		Date Reported:	18-Jun-2025	
		Quote No:	138144	
		Order No:	3011550/200/2.1	
		Client Reference:	3011550/200/2.1	
		Add. Client Ref:	Sampled 13/06/25	
		Submitted By:	s9(2)(a)	

Interim Report

This is an interim report, prepared before all test results are completed. As all final Q.C. checks may not have been possible, it is not regarded as an official certificate of analysis. The final, official report will be issued upon completion of all tests.

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS250_0.0	3916219.1	173.9	127.4	39.5	Asbestos NOT detected.	-
MRS1_SS251_0.0	3916219.2	178.4	101.4	49.2	Asbestos NOT detected.	-
MRS1_SS252_0.0	3916219.3	204.1	145.0	44.7	Asbestos NOT detected.	-
MRS1_SS253_0.0	3916219.4	151.8	113.7	38.2	Asbestos NOT detected.	-
MRS1_SS254_0.0	3916219.5	172.0	94.7	29.6	Amosite (Brown Asbestos) and Chrysotile (White Asbestos) detected.	ACM debris (major), Loose fibres (minor)
MRS1_SS255_0.0	3916219.8	139.4	99.2	30.9	Asbestos NOT detected.	-
MRS1_SS255_0.5	3916219.10	108.6	73.5	14.2	Asbestos NOT detected.	-
MRS1_SS255_1.0	3916219.12	159.6	123.1	23.2	Asbestos NOT detected.	-
MRS1_SS256_0.0	3916219.13	190.0	151.0	31.9	Asbestos NOT detected.	-
MRS1_SS257_0.0	3916219.14	165.4	92.2	34.6	Asbestos NOT detected.	-
MRS1_SS258_0.0	3916219.15	140.2	63.6	16.5	Asbestos NOT detected.	-
MRS1_SS258_1.0	3916219.18	137.3	95.1	22.5	Asbestos NOT detected.	-
MRS1_SS259_0.0	3916219.19	171.0	126.0	62.9	Asbestos NOT detected.	-
MRS1_SS260_0.0	3916219.21	176.3	111.0	43.7	Asbestos NOT detected.	-
MRS1_SS261_0.0	3916219.22	157.7	112.8	27.4	Asbestos NOT detected.	-
MRS1_SS262_0.0	3916219.23	144.5	98.2	31.8	Asbestos NOT detected.	-
MRS1_SS176_0.0	3916219.26	222.3	116.6	27.6	Asbestos NOT detected.	-
MRS1_SS177_0.0	3916219.27	141.6	106.4	48.2	Asbestos NOT detected.	-
MRS1_SS178_0.0	3916219.29	145.5	94.1	25.6	Amosite (Brown Asbestos) and Chrysotile (White Asbestos) detected.	ACM debris (minor)
MRS1_SS179_0.0	3916219.31	146.9	99.3	50.6	Asbestos NOT detected.	-
MRS1_SS180_0.0	3916219.33	150.4	111.1	36.9	Asbestos NOT detected.	-
MRS1_SS204_0.0	3916219.35	181.2	96.4	29.7	Asbestos NOT detected.	-
MRS1_SS248_0.0	3916219.36	187.0	107.2	38.9	Asbestos NOT detected.	-
MRS1_SS249_0.0	3916219.37	181.4	112.0	33.4	Asbestos NOT detected.	-

Sample Type: Soil

		MRS1_SS254_0.0 13-Jun-2025	MRS1_SS178_0.0 13-Jun-2025
Sample Name:			
Lab Number:		3916219.5	3916219.29
Asbestos Presence / Absence		In Progress	In Progress
Description of Asbestos Form		In Progress	In Progress
Asbestos in ACM as % of Total Sample	% w/w	In Progress	In Progress
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample	% w/w	In Progress	In Progress
Asbestos as Fibrous Asbestos as % of Total Sample	% w/w	In Progress	In Progress

Sample Type: Soil			
Sample Name:		MRS1_SS254_0.0 13-Jun-2025	MRS1_SS178_0.0 13-Jun-2025
Lab Number:		3916219.5	3916219.29
Asbestos as Asbestos Fines as % of Total Sample	% w/w	In Progress	In Progress
As Received Weight	g	In Progress	In Progress
Dry Weight	g	In Progress	In Progress
Moisture	%	In Progress	In Progress
Sample Fraction >10mm	g dry wt	In Progress	In Progress
Sample Fraction <10mm to >2mm	g dry wt	In Progress	In Progress
Sample Fraction <2mm	g dry wt	In Progress	In Progress
<2mm Subsample Weight	g dry wt	In Progress	In Progress
Weight of Asbestos in ACM (Non-Friable)	g dry wt	In Progress	In Progress
Weight of Asbestos as Fibrous Asbestos (Friable)	g dry wt	In Progress	In Progress
Weight of Asbestos as Asbestos Fines (Friable)	g dry wt	In Progress	In Progress

Glossary of Terms
• Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
• ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
• Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
• Trace - Trace levels of asbestos, as defined by AS4964-2004.
For further details, please contact the Asbestos Team.

Please refer to the BRANZ New Zealand Guidelines for Assessing and Managing Asbestos in Soil.
https://www.branz.co.nz/asbestos

The following assumptions have been made:

1. Asbestos Fines in the <2mm fraction, after homogenisation, is evenly distributed throughout the fraction
2. The weight of asbestos in the sample is unaffected by the ashing process.

Results are representative of the sample provided to Hill Laboratories only.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37
New Zealand Guidelines Semi Quantitative Asbestos in Soil			
As Received Weight	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	5, 29
Dry Weight	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	5, 29
Moisture	Sample dried at 100 to 105°C. Calculation = (As received weight - Dry weight) / as received weight x 100.	1 %	5, 29
Sample Fraction >10mm	Sample dried at 100 to 105°C, 10mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Sample Fraction <10mm to >2mm	Sample dried at 100 to 105°C, 10mm and 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Sample Fraction <2mm	Sample dried at 100 to 105°C, 2mm sieve, measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g dry wt	5, 29
Asbestos Presence / Absence	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	5, 29
Description of Asbestos Form	Description of asbestos form and/or shape if present.	-	5, 29
Weight of Asbestos in ACM (Non-Friable)	Measurement on analytical balance, from the >10mm Fraction. Weight of asbestos based on assessment of ACM form. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos in ACM as % of Total Sample	Calculated from weight of asbestos in ACM and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Weight of Asbestos as Fibrous Asbestos (Friable)	Measurement on analytical balance, from the >10mm Fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos as Fibrous Asbestos as % of Total Sample	Calculated from weight of fibrous asbestos and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Weight of Asbestos as Asbestos Fines (Friable)	Measurement on analytical balance, from the <10mm Fractions. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.00001 g dry wt	5, 29
Asbestos as Asbestos Fines as % of Total Sample	Calculated from weight of asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Combined Fibrous Asbestos + Asbestos Fines as % of Total Sample	Calculated from weight of fibrous asbestos plus asbestos fines and sample dry weight. New Zealand Guidelines for Assessing and Managing Asbestos in Soil, November 2017.	0.001 % w/w	5, 29
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37

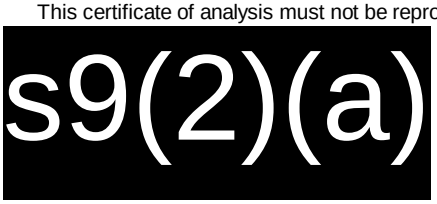
Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-5, 8, 10, 12-15, 18-19, 21-23, 26-27, 29, 31, 33, 35-37

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 17-Jun-2025 and 18-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3918846	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	18-Jun-2025	
	C/- Beca Limited	**Date Reported:**	24-Jun-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550	
	Auckland 1141	**Client Reference:**	3011550	
		Add. Client Ref:	Sampled 17/06/25	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS263_0.0	3918846.1	201.5	139.1	57.3	Asbestos NOT detected.	-
MRS1_SS264_0.0	3918846.2	212.8	152.3	57.2	Asbestos NOT detected.	-
MRS1_SS265_0.0	3918846.3	218.2	149.9	55.1	Asbestos NOT detected.	-
MRS1_SS266_0.0	3918846.4	166.3	115.8	32.4	Asbestos NOT detected.	-
MRS1_SS267_0.0	3918846.5	171.1	113.8	36.8	Asbestos NOT detected.	-
MRS1_SS268_0.0	3918846.6	188.7	124.6	49.9	Asbestos NOT detected.	-
MRS1_SS275_0.0	3918846.7	160.1	117.1	40.9	Asbestos NOT detected.	-
MRS1_SS276_0.0	3918846.8	160.7	118.5	39.8	Asbestos NOT detected.	-
MRS1_SS277_0.0	3918846.9	197.8	151.8	30.7	Asbestos NOT detected.	-
MRS1_SS278_0.0	3918846.10	176.9	127.7	48.4	Asbestos NOT detected.	-
MRS1_SS279_0.0	3918846.11	137.8	88.0	22.6	Asbestos NOT detected.	-
MRS1_SS280_0.0	3918846.12	143.3	94.3	32.0	Asbestos NOT detected.	-
MRS1_SS281_0.0	3918846.13	167.9	119.4	26.1	Asbestos NOT detected.	-
MRS1_SS282_0.0	3918846.14	168.5	125.1	47.4	Asbestos NOT detected.	-
MRS1_SS283_0.0	3918846.15	147.6	107.7	42.1	Asbestos NOT detected.	-
MRS1_SS284_0.0	3918846.16	164.0	119.2	41.1	Asbestos NOT detected.	-
MRS1_SS285_0.0	3918846.17	147.3	101.8	56.3	Asbestos NOT detected.	-
MRS1_SS286_0.0	3918846.18	141.5	101.8	31.6	Asbestos NOT detected.	-
MRS1_SS292_0.0	3918846.19	153.5	109.9	39.0	Asbestos NOT detected.	-
MRS1_SS293_0.0	3918846.20	173.1	109.5	44.5	Asbestos NOT detected.	-
MRS1_SS294_0.0	3918846.21	182.8	139.7	59.4	Asbestos NOT detected.	-
MRS1_SS295_0.0	3918846.22	185.1	148.6	58.4	Asbestos NOT detected.	-
MRS1_SS296_0.0	3918846.23	178.9	124.7	59.5	Asbestos NOT detected.	-
MRS1_SS297_0.0	3918846.24	201.4	146.2	46.2	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-24
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-24
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-24
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-24
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-24

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 24-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Team Leader - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3919435 A2Pv1
Contact:	s9(2)(a)	**Date Received:**	18-Jun-2025
	C/- Beca Limited	**Date Reported:**	26-Jun-2025
	PO Box 6345	**Quote No:**	138144
	Wellesley Street	**Order No:**	3011550/200/2.1
	Auckland 1141	**Client Reference:**	3011550/200/2.1
		Submitted By:	s9(2)(a)

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS269_0.0	3919435.1	153.9	109.6	51.9	Asbestos NOT detected.	-
MRS1_SS270_0.0	3919435.2	168.2	126.2	53.1	Asbestos NOT detected.	-
MRS1_SS271_0.0	3919435.3	178.4	134.0	51.8	Asbestos NOT detected.	-
MRS1_SS272_0.0	3919435.4	154.3	98.0	21.9	Asbestos NOT detected.	-
MRS1_SS273_0.0	3919435.5	158.1	100.7	22.6	Asbestos NOT detected.	-
MRS1_SS274_0.0	3919435.6	171.6	82.2	51.4	Asbestos NOT detected.	-
MRS1_SS287_0.0	3919435.7	180.9	127.0	55.6	Asbestos NOT detected.	-
MRS1_SS288_0.0	3919435.8	175.9	134.9	54.5	Asbestos NOT detected.	-
MRS1_SS289_0.0	3919435.9	199.0	148.4	55.6	Asbestos NOT detected.	-
MRS1_SS290_0.0	3919435.10	186.7	126.1	55.3	Asbestos NOT detected.	-
MRS1_SS291_0.0	3919435.11	190.2	141.6	53.9	Asbestos NOT detected.	-
MRS1_SS311_0.0	3919435.12	150.3	101.9	19.7	Asbestos NOT detected.	-
MRS1_SS312_0.0	3919435.13	190.6	120.6	57.7	Asbestos NOT detected.	-
MRS1_SS313_0.0	3919435.14	189.4	110.6	50.3	Asbestos NOT detected.	-
MRS1_SS314_0.0	3919435.15	166.3	103.7	52.2	Asbestos NOT detected.	-
MRS1_SS315_0.0	3919435.16	174.9	122.3	48.5	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-16

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-16
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-16
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-16
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-16
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-16
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-16
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-16

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 26-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
1/17 Print Place
Middleton
Christchurch 8024 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3921265	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	23-Jun-2025	
	C/- Beca Limited	**Date Reported:**	27-Jun-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS339_0.0	3921265.1	190.1	143.3	55.8	Asbestos NOT detected.	-
MRS1_SS340_0.0	3921265.2	171.8	101.3	36.1	Asbestos NOT detected.	-
MRS1_SS341_0.0	3921265.3	160.6	78.7	21.4	Asbestos NOT detected.	-
MRS1_SS342_0.0	3921265.4	201.9	146.2	53.4	Asbestos NOT detected.	-
MRS1_SS343_0.0	3921265.5	129.1	83.0	56.2	Asbestos NOT detected.	-
MRS1_SS344_0.0	3921265.6	119.5	71.9	57.2	Asbestos NOT detected.	-
MRS1_SS317_0.0	3921265.7	154.3	107.0	59.1	Asbestos NOT detected.	-
MRS1_SS318_0.0	3921265.8	175.7	117.4	57.4	Asbestos NOT detected.	-
MRS1_SS319_0.0	3921265.9	169.7	125.7	59.4	Asbestos NOT detected.	-
MRS1_SS320_0.0	3921265.10	169.8	113.3	58.0	Asbestos NOT detected.	-
MRS1_SS321_0.0	3921265.11	178.8	117.2	54.6	Asbestos NOT detected.	-
MRS1_SS322_0.0	3921265.12	193.5	126.6	54.8	Asbestos NOT detected.	-
MRS1_SS330_0.0	3921265.13	150.2	115.3	56.6	Asbestos NOT detected.	-
MRS1_SS331_0.0	3921265.14	172.4	120.8	56.2	Asbestos NOT detected.	-
MRS1_SS332_0.0	3921265.15	192.9	131.0	56.4	Asbestos NOT detected.	-
MRS1_SS333_0.0	3921265.16	159.8	107.1	58.0	Asbestos NOT detected.	-
MRS1_SS334_0.0	3921265.17	184.2	139.1	58.0	Asbestos NOT detected.	-
MRS1_SS335_0.0	3921265.18	192.9	123.5	55.7	Asbestos NOT detected.	-
MRS1_SS336_0.0	3921265.19	193.8	125.4	54.2	Asbestos NOT detected.	-
MRS1_SS337_0.0	3921265.20	169.4	121.2	56.9	Asbestos NOT detected.	-
MRS1_SS338_0.0	3921265.21	180.4	132.7	53.5	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-21
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	0.1 g	1-21
<2mm Subsample Weight Presence / Absence Testing	Sample dried at 100 to 105°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch.	-	1-21
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; Unit 1, 17 Print Place, Middleton, Christchurch. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-21
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present.	-	1-21
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-21
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-21
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-21

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed between 26-Jun-2025 and 27-Jun-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Team Leader - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3926960	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	30-Jun-2025	
	C/- Beca Limited	**Date Reported:**	02-Jul-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS144_0.0	3926960.1	182.8	105.4	37.0	Asbestos NOT detected.	-
MRS1_SS145_0.0	3926960.2	182.8	115.7	31.8	Asbestos NOT detected.	-
MRS1_SS146_0.0	3926960.3	173.4	112.7	31.4	Asbestos NOT detected.	-
MRS1_SS147_0.0	3926960.4	178.6	127.8	37.8	Asbestos NOT detected.	-
MRS1_SS351_0.0	3926960.5	148.5	118.8	31.7	Asbestos NOT detected.	-
MRS1_SS352_0.0	3926960.6	179.5	134.9	40.0	Asbestos NOT detected.	-
MRS1_SS353_0.0	3926960.7	192.8	144.9	41.3	Asbestos NOT detected.	-
MRS1_SS354_0.0	3926960.8	169.6	119.1	42.2	Asbestos NOT detected.	-
MRS1_SS347_0.0	3926960.9	182.1	129.1	34.7	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-9
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-9
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-9
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-9

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-9
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-9
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-9
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-9

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 02-Jul-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Team Leader - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3928389	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	01-Jul-2025	
	C/- Beca Limited	**Date Reported:**	04-Jul-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Add. Client Ref:	Sampled 1/7/25	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS357_0.0	3928389.1	164.1	125.7	32.8	Asbestos NOT detected.	-
MRS1_SS358_0.0	3928389.2	183.4	128.7	44.0	Asbestos NOT detected.	-
MRS1_SS359_0.0	3928389.3	173.7	113.5	32.5	Asbestos NOT detected.	-
MRS1_SS360_0.0	3928389.4	161.1	116.0	32.4	Asbestos NOT detected.	-
MRS1_SS361_0.0	3928389.5	189.2	133.5	53.6	Asbestos NOT detected.	-
MRS1_SS345_0.0	3928389.6	182.5	140.6	30.6	Asbestos NOT detected.	-
MRS1_SS355_0.0	3928389.7	216.8	172.7	32.2	Asbestos NOT detected.	-
MRS1_SS356_0.0	3928389.8	196.0	158.8	32.3	Asbestos NOT detected.	-
MRS1_SS348_0.0	3928389.9	190.0	147.4	58.5	Asbestos NOT detected.	-
MRS1_SS349_0.0	3928389.10	209.6	161.4	47.1	Asbestos NOT detected.	-
MRS1_SS350_0.0	3928389.11	218.3	173.2	27.8	Asbestos NOT detected.	-
MRS1_SS346_0.0	3928389.12	171.9	135.7	25.5	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil

Test	Method Description	Default Detection Limit	Sample No
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-12
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-12
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-12

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The tests reported herein have been performed in accordance with the terms of accreditation, with the exception of tests marked * or any comments and interpretations, which are not accredited.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-12
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-12
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-12
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-12
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-12

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 04-Jul-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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s9(2)(a)

Laboratory Technician - Asbestos

R J Hill Laboratories Limited
Ground Fl, 28 Heather Street
Parnell
Auckland 1052 New Zealand

s9(2)(a)

Certificate of Analysis

Client:	Beca Limited	**Lab No:**	3929356	A2Pv1
Contact:	s9(2)(a)	**Date Received:**	02-Jul-2025	
	C/- Beca Limited	**Date Reported:**	04-Jul-2025	
	PO Box 6345	**Quote No:**	138144	
	Wellesley Street	**Order No:**	3011550/200/2.1	
	Auckland 1141	**Client Reference:**	3011550/200/2.1	
		Add. Client Ref:	Sampled: 02/07/25	
		Submitted By:	s9(2)(a)	

Sample Type: Soil

Sample Name	Lab Number	As Received Weight Presence / Absence Testing (g)	Dry Weight Presence / Absence Testing (g)	<2mm Subsample Weight Presence / Absence Testing (g dry wt)	Asbestos Presence / Absence from Presence / Absence Testing	Description of Asbestos Form Presence / Absence Testing
MRS1_SS362_0.0	3929356.1	125.0	82.9	20.3	Asbestos NOT detected.	-
MRS1_SS364_0.0	3929356.2	152.3	102.4	28.1	Asbestos NOT detected.	-
MRS1_SS365_0.0	3929356.3	124.1	90.2	45.8	Asbestos NOT detected.	-
MRS1_SS366_0.0	3929356.4	194.5	139.4	30.9	Asbestos NOT detected.	-
MRS1_SS367_0.0	3929356.5	173.2	113.5	32.2	Asbestos NOT detected.	-
MRS1_SS368_0.0	3929356.6	154.9	105.9	26.3	Asbestos NOT detected.	-
MRS1_SS369_0.0	3929356.7	148.0	93.7	18.9	Asbestos NOT detected.	-
MRS1_SS370_0.0	3929356.8	163.8	114.2	35.8	Asbestos NOT detected.	-
MRS1_SS371_0.0	3929356.9	162.6	107.2	28.3	Asbestos NOT detected.	-
MRS1_SS372_0.0	3929356.10	136.4	90.5	26.2	Asbestos NOT detected.	-
MRS1_SS373_0.0	3929356.11	138.8	96.6	27.8	Asbestos NOT detected.	-
MRS1_SS374_0.0	3929356.12	166.5	102.7	22.9	Asbestos NOT detected.	-
MRS1_SS375_0.0	3929356.13	150.1	105.8	36.5	Asbestos NOT detected.	-
MRS1_SS376_0.0	3929356.14	134.4	86.0	24.6	Asbestos NOT detected.	-
MRS1_SS377_0.0	3929356.15	143.1	92.2	24.5	Asbestos NOT detected.	-
MRS1_SS378_0.0	3929356.16	152.4	108.4	38.6	Asbestos NOT detected.	-
MRS1_SS379_0.0	3929356.17	203.2	142.2	51.5	Asbestos NOT detected.	-
MRS1_SS380_0.0	3929356.18	136.5	84.3	23.0	Asbestos NOT detected.	-
MRS1_SS381_0.0	3929356.19	146.3	86.7	25.1	Asbestos NOT detected.	-
MRS1_SS382_0.0	3929356.20	156.6	107.3	54.8	Asbestos NOT detected.	-

Glossary of Terms

- Loose fibres (Minor) - One or two fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- Loose fibres (Major) - Three or more fibres/fibre bundles identified during analysis by stereo microscope/PLM.
- ACM Debris (Minor) - One or two small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- ACM Debris (Major) - Large (>2mm) piece, or more than three small (<2mm) pieces of material attached to fibres identified during analysis by stereo microscope/PLM.
- Unknown Mineral Fibres - Mineral fibres of unknown type detected by polarised light microscopy including dispersion staining. The fibres detected may or may not be asbestos fibres. To confirm the identities, another independent analytical technique may be required.
- Trace - Trace levels of asbestos, as defined by AS4964-2004.

For further details, please contact the Asbestos Team.

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Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request.
Unless otherwise indicated, analyses were performed at Hill Labs, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Soil			
Test	**Method Description**	**Default Detection Limit**	**Sample No**
Asbestos in Soil (Semi-Quant as required)			
As Received Weight Presence / Absence Testing	Measurement on analytical balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-20
Dry Weight Presence / Absence Testing	Sample dried at 100 to 105°C, measurement on balance. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	0.1 g	1-20
<2mm Subsample Weight Presence / Absence Testing	Sample ashed at 400°C, weight of <2mm sample fraction taken for asbestos identification if less than entire fraction. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-20
Asbestos Presence / Absence from Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland. AS 4964 (2004) - Method for the Qualitative Identification of Asbestos in Bulk Samples.	0.01%	1-20
Description of Asbestos Form Presence / Absence Testing	Description of asbestos form and/or shape if present. Analysed at Hill Laboratories - Asbestos; 28 Heather Street, Auckland.	-	1-20
Asbestos in Soil Presence / Absence Testing ESdat Electronic Transfer			
Amosite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Chrysotile Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20
Crocidolite Presence / Absence Testing	Examination using Low Powered Stereomicroscopy followed by 'Polarised Light Microscopy' including 'Dispersion Staining Techniques'. Presence / Absence testing.	0 Detect	1-20

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 04-Jul-2025. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Laboratory Technician - Asbestos