

**Attachment G**  
**Industrial Hygiene Sampling Results (Asbestos)**

Date	Location	Type of sample	position	Area	Cartridge #	Sampling time	Peak Sampling Time	Flow rate or volume	TWA Fibers/cc (PCM)	Peak Fibers/cc (PCM)	Fibers/cc TEM	Tremolite-actinolite fibers/cm3	Respirable Dust (mg/m3)	Crystalline Quartz (respirable) mg/m3
5/4/1976	Charmian	personal (TWA)/Peak	Primary Crusher Operator			315	15		1.1	3.1				
5/4/1976	Charmian	personal (TWA)/Peak	Driller #1			300	15		1.2	0.5				
5/4/1976	Charmian	personal (TWA)/Peak	Driller#2			305	15		0.1	0.2				
5/4/1976	Charmian	personal (TWA)/Peak	Fron End Loader			307	15		0.4	0.2				
5/5/1976	Charmian	personal (TWA)/Peak	Intermediate Operator			241	15		1.3	1.2				
5/5/1976	Charmian	personal (TWA)/Peak	Intermediate Helper			245	15		1.2	3.2				
5/5/1976	Charmian	personal (TWA)/Peak	Mill Operator			236	15		1.0	1.4				
5/5/1976	Charmian	personal (TWA)/Peak	Mill Helper			192	15		0.8	TDTC				
5/5/1976	Charmian	personal (TWA)/Peak	Bagging Machine Operator (TCM)			115	15		4.5	6.9				
8/4/1977	Charmian	personal (TWA)	Driller #1			255			1.1	1.0				
8/4/1977	Charmian	personal (TWA)	Primary Crusher Operator			315			1.1	3.1				
8/4/1977	Charmian	personal (TWA)	Driller #2			305			0.1	0.2				
8/4/1977	Charmian	personal (TWA)	Fron End Loader Operator			307			0.4	0.2				
8/5/1977	Charmian	personal (TWA)	Intermediate Operator			241			1.3	1.2				
8/5/1977	Charmian	personal (TWA)	Intermediate Helper			245			1.2	3.2				
8/5/1977	Charmian	personal (TWA)	Mill Operator			236			1.0	1.4				
8/5/1977	Charmian	personal (TWA)	Mill Helper			192			0.1					
8/5/1977	Charmian	personal (TWA)	Bagger			115			4.5	5.3				
8/31/1978	Charmian	personal (TWA)												
6/30/1983	Charmian	personal	bagger operator		D4	48		2	0.2					
6/30/1983	Charmian	personal	bagger operator		SBR-11	50		2	0.0					
6/30/1983	Charmian	personal	bagger operator		C1	55		2	0.2					
6/30/1983	Charmian	personal	bagger operator		C2	65		2	0.3					
6/30/1983	Charmian	personal	bagger operator		C3	45		2	0.3					
6/30/1983	Charmian	personal	bagger operator		SBBR-12	81		2	0.1					
6/30/1983	Charmian	personal	bagger operator		C4	49		2	0.2					
6/30/1983	Charmian	personal (TWA)	bagger operator			393		2	0.2					
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c1	60		2				0.006		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c2	60		2				0.017		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c3	60		2				0.029		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c4	60		2				0.013		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c5	60		2				0.015		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c6	60		2				0.016		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c7	60		2				0.014		
2/8/1984	Charmian	personal	int operator (MSHA side-by-side)		c8	60		2				0.048		
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 100	60					N/C			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 102	60					N/C			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 103	60					0.33			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 104	60					N/C			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 105	60					0.36			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 106	60					0.38			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 107	60					0.36			
2/8/1984	Charmian	personal	intermediate crusher operator (MSHA)		RLR 108	60					0.3			
2/8/1984	Charmian	personal (TWA)	intermediate crusher operator (MSHA)			480					0.22			
8/22/1984	Charmian	personal (TWA)	TCM bagger operator			417					0.1			
6/16/1988	Charmian	personal (TWA)	loads rail cars		4010	395		1.7					0.31	
6/16/1988	Charmian	personal (TWA)	laborer					1.7					0.47	
2/11/1991	Charmian	area		#6 elevator top, top level-mill	1	15			2.0		0.59			
2/11/1991	Charmian	area		#25 screen, 4th level-mill	17	15			1.1		0.27			

Date	Location	Type of sample	position	Area	Cartridge #	Sampling time	Peak Sampling Time	Flow rate or volume	TWA Fibers/cc (PCM)	Peak Fibers/cc (PCM)	Fibers/cc TEM	Tremolite-actinolite fibers/cm3	Respirable Dust (mg/m3)	Crystalline Quartz (respirable) mg/m3
2/11/1991	Charmian	area		old control room	18	30			0.2		NE			
2/11/1991	Charmian	area		#22 screen-screenfloor mill	4	15			1.0		0.05			
2/11/1991	Charmian	area		#15C elevator - rolffloor mill	20	17			0.6		0.27			
2/11/1991	Charmian	area		#5 elevator bottom ground floor - mill	2	15			0.5		0.05			
2/11/1991	Charmian	area		new control room	16	35			0.2		NE			
2/11/1991	Charmian	area		intermediate control room	8	30			0.2		0.07			
2/11/1991	Charmian	area		gyradisc bldg - 511 belt crusher level	6	15			0.5		0.07			
2/11/1991	Charmian	area		old control room	15	30			0.6		0.08			
2/11/1991	Charmian	area (TWA)		Lower mill TWA		217			0.6		0.16			
2/11/1991	Charmian	area		Primary crusher booth	10	30			0.2		0.14			
2/11/1991	Charmian	area		above belt-to-stockpile	19	30			0.1		NE			
2/11/1991	Charmian	area		Primary crusher booth	9	20			0.3		0.15			
2/11/1991	Charmian	area		Primary crusher booth	5	30			0.3		0.21			
2/11/1991	Charmian	area		above belt-to-stockpile	13	20			0.6		0.15			
2/11/1991	Charmian	area (TWA)		Primary crusher operator TWA		130			0.3		0.15			
2/11/1991	Charmian	area		Kiln floor - between kilns	27	35			0.1		NE			
2/11/1991	Charmian	area		Kiln control room	26	40			ND		NE			
2/11/1991	Charmian	area		mixer work area - blowers	30	45			0.0		NE			
2/11/1991	Charmian	area		high end - #9 conveyor belt	22	30			0.2		NE			
2/11/1991	Charmian	area (TWA)		Primary crusher operator TWA		150			0.1		NE			
2/11/1991	Charmian	personal	TCM bagging machine operator		7	35			0.2		0.17			
2/11/1991	Charmian	personal	TCM bagging machine operator		3	35			0.2		NE			
2/11/1991	Charmian	personal	TCM bagging machine operator		14	60			0.2		NE			
2/11/1991	Charmian	personal	TCM bagging machine operator		11	45			0.2		0.1			
2/11/1991	Charmian	personal	TCM bagging machine operator		23	30			0.3		0.18			
2/11/1991	Charmian	personal	TCM bagging machine operator		21	30			0.2		NE			
2/11/1991	Charmian	personal	TCM bagging machine operator		29	39			0.2		NE			
2/11/1991	Charmian	personal (TWA)	TCM bagging machine operator			274			0.2		0.16			
4/2/1991	Charmian	personal (TWA)	laborer/screenperson			425							0.27	
4/2/1991	Charmian	personal (TWA)	mill screenperson (MSHA)										3.9	
4/2/1991	Charmian	personal (TWA)	mill screenperson										0.45	
8/7/1991	Charmian	personal (TWA)	mill screenperson (MSHA)										2.77	
8/7/1991	Charmian	personal (TWA)	mill screenperson										1.04	
11/7/1991	Charmian	personal (TWA)	mill screenperson (MSHA)										2.15	
11/7/1991	Charmian	personal (TWA)	mill screenperson										0.99	
1/30/1992	Charmian	personal (TWA)	mill screenperson										0.51	
2/14/1992	Charmian	personal (TWA)	mill screenperson (MSHA)										2.04	
2/20/1992	Charmian	personal (TWA)	Intermediate Operator		984060	480		1.7					1.22	
2/20/1992	Charmian	personal (TWA)	maintenance mechanic		984058	480		1.7					<0.12	
3/5/1992	Charmian	personal (TWA)	Truck driver		984064	480		1.7					0.12	
3/5/1992	Charmian	personal (TWA)	chief mill operator		984061	480		1.7					0.73	
3/20/1992	Charmian	personal (TWA)	Primary Crusher Operator		984749	480		1.7					0.49	
3/20/1992	Charmian	personal (TWA)	gyradisc operator		984746	480		1.7					0.73	
4/10/1992	Charmian	personal (TWA)	dropball operator		984741	480		1.7					0.12	
4/10/1992	Charmian	personal (TWA)	Loader operator		984562	480		1.7					0.24	
4/24/1992	Charmian	personal (TWA)	Intermediate Operator		984752	480		1.7					0.49	
4/24/1992	Charmian	personal (TWA)	G-11 loader		984564	480		1.7					0.73	

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5/29/1992	Charmian	personal (TWA)	mixer operator		984563	480		1.7					0.73	
5/29/1992	Charmian	personal (TWA)	mixer utility person		984657	480		1.7					0.49	
6/11/1992	Charmian	personal (TWA)	kiln operator		984568	490		1.7					<0.12	
6/26/1992	Charmian	personal (TWA)	TCM bagger operator		984751	475		1.7					0.25	
7/8/1992	Charmian	personal (TWA)	Truck driver		984561	450		1.7					0.26	
7/10/1992	Charmian	personal (TWA)	analyzer		984743	420		1.7					0.28	
7/28/1992	Charmian	personal (TWA)	mill screenperson		984560	480		1.7					2.45	
7/28/1992	Charmian	personal (TWA)	Mill Operator		984569	480		1.7					1.59	
8/6/1992	Charmian	personal (TWA)	Intermediate Operator		984745	480		1.7					0.37	
8/6/1992	Charmian	personal (TWA)	maintenance mechanic		984748	480		1.7					ND (<0.10)	
9/11/1992	Charmian	personal (TWA)	batchperson		984744	480		1.7					0.12	
9/16/1992	Charmian	personal (TWA)	granule loader		984565	450		1.7					ND (<0.13)	
12/21/1992	Charmian	personal (TWA)	mill screenperson		456678	480		1.7					3.18	0.1
2/22/1993	Charmian	personal (TWA)	screenperson		456692	480		2					4.58	
2/22/1993	Charmian	area (TWA)		Mill area, east of #21 screen in mill bldg @ 70 TPH	456109	480		1.7					2.45	
5/19/1993	Charmian	personal (TWA)	Intermediate Operator		838738	478		1.7					36.00	3
5/27/1993	Charmian	personal (TWA)	Louel Mill operator		838786	480		1.7					1.50	0.1
6/4/1993	Charmian	personal (TWA)	Intermediate Helper		838742	480		1.7					8.30	0.25
6/9/1993	Charmian	personal (TWA)	batchperson		838741	480		1.7					0.20	<0.1
6/11/1993	Charmian	personal (TWA)	mixer utility		838826	480		1.7					0.70	0.01
6/11/1993	Charmian	personal (TWA)	maintenance mechanic		839019	475		1.7					0.20	0.06
6/11/1993	Charmian	personal (TWA)	kiln operator		838731	470		1.7					1.50	<0.01
6/11/1993	Charmian	personal (TWA)	mixer operator		838822	470		1.7					0.20	<0.01
6/11/1993	Charmian	personal (TWA)	TCM bagger operator		838739	470		1.7					0.60	0.04
9/30/1993			Mill Operator										11.00	
10/1/1993			screenperson										20.00	
12/7/1993			screenperson										13.00	
12/7/1993			Mill Operator										25.00	
1/27/1994			Mill Operator										11.40	
1/27/1994			screenperson										25.80	
3/1/1994			screenperson										0.60	
3/1/1994			gyradisc operator										0.30	
3/9/1994			Mill Operator										2.90	
3/14/1994			Intermediate Operator										1.00	
3/14/1994			L.M. mechanic										0.40	
5/19/1994			Truck driver										0.10	
5/19/1994			quarry loader										0.10	
5/20/1994			L.M. laborer										0.40	
5/20/1994			intermediate asst										1.75	
6/14/1994			G-11 loader										0.40	
6/14/1994			chief operator										1.37	
9/20/1994			batchperson										1.50	
9/20/1994			mixer utility										0.60	
9/21/1994			primary operator										0.30	
9/21/1994			U.M. mechanic										4.00	
10/7/1994			kiln operator										2.60	
10/7/1994			granule loader										0.50	
10/10/1994			screenperson										55.00	



[illegible]

Date	Sample Number	Location	PCM (Fibers/cc)	TEM Asbestos (Structures or Fibers/cc)	Chrysotile Fibers	Amphibole Fibers	Non-Asbestos Structures	Notes
4/22/2009	BH594783	300 Crusher	N/A	N/A	N/A	N/A	N/A	Overloaded
4/22/2009	BH594781	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/22/2009	BH595048	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/22/2009	BH594789	910 Tunnel	0.35	<0.004	0	0	14.5	Overloaded
4/22/2009	BH594788	C1 Tunnel	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594774	300 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594786	300 Crusher	N/A	N/A	N/A	N/A	N/A	Overloaded
4/23/2009	BH594803	300 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH595087	300 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH595156	300 Crusher	N/A	N/A	N/A	N/A	N/A	Overloaded
4/23/2009	BH594780	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594775	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594796	310/320 Crusher	0.215	<0.003	0	0	24	Overloaded
4/23/2009	BH594782	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594745	310/320 Crusher	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594812	910 Tunnel	N/A	N/A	N/A	N/A	N/A	Overloaded
4/23/2009	BH595197	910 Tunnel	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594799	910 Tunnel	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH594800	910 Tunnel	N/A	N/A	N/A	N/A	N/A	Overloaded
4/23/2009	BH595218	C1 Tunnel	0.064	<0.004	0	0	7.5	
4/23/2009	BH595075	C1 Tunnel	N/A	N/A	N/A	N/A	N/A	
4/23/2009	BH595202	C1 Tunnel	N/A	N/A	N/A	N/A	N/A	Overloaded
4/23/2009	BH594809	C1 Tunnel	0.11	<0.003	0	0	9	
5/18/2009	BH594807	300 Crusher	0.21	<0.001	0	0	25.5	
5/18/2009	BH595184	310/320 crusher	N/A	<0.01	0	0	25.5	Overloaded
5/18/2009	BH594759	310/320 Crusher	N/A	<0.016	0	0	35	
5/19/2009	BH594813	300 Crusher	0.28	<0.001	0	0	17	
5/19/2009	BH595148	310/320 Crusher	N/A	<0.005	0	0	31	Overloaded



## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 9/3/2009  
Sample Receipt Date: 8/27/2009  
RJ Lee Group Job No.: AOH1006200-1  
Authorization/P.O. No.:  
Samples Received: 13  
Client Job No./Name: TEM

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BH595129	10067728.HT D1		385	0.25	304.5	0.37089	0	0	5	< 0.007 0.007	0.000
BH595086	10067729.HT D1		385	0.25	49.5	0.37089	0	0	53	< 0.042 0.042	0.000
BH595016	10067730.HT D2		385	0.00	61.4	0.37089	0	0	22.5	< 28.177 28.177	0.000
BH594951	10067732.HT		385	1	49.5	0.37089	0	0	36.5	< 0.010 0.010	0.000
BK675503	10067733.HT D2		385	0.00	59.4	0.37089	0	0	40	< 29.126 29.126	0.000
BK675206	10067734.HT D2		385	0.00	138.6	0.37089	0	0	36	< 12.482 12.482	0.000

Authorized Signature: \_\_\_\_\_

/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

- Volumes provided by ISP Mineral Products Inc were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

## DISCLAIMER

Caution must be applied when interpreting the results of samples prepared using indirect sample preparation techniques. Studies have shown that indirect preparation techniques may result in substantial increases in the fiber count when compared to fiber counts which would have been obtained using direct sample preparation.

RJ Lee Group, Inc. is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for select test methods for airborne asbestos analysis (TEM), asbestos fiber analysis (PLM), New York Department of HEALTH Environmental Laboratory Program (ELAP), and by the American Industrial Hygiene Association (AIHA). This test report relates only to the items tested. This report may not be used to claim product endorsement by NVLAP, any agency of the US Government, or any other laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a NVLAP-approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.



## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 9/10/2009  
Sample Receipt Date: 8/27/2009  
RJ Lee Group Job No.: AOH1006200-2  
Authorization/P.O. No.:  
Samples Received: 13  
Client Job No./Name: TEM

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BH594754	10067723.HT		385	1	259.3	0.37089	0	0	19	< 0.002 0.002	0.000
BH595168	10067725.HT		385	1	242.8	0.37089	0	0	21	< 0.002 0.002	0.000
BH595166	10067726.HT		385	1	304.5	0.37089	0	0	67	< 0.002 0.002	0.000
BH594748	10067727.HT		385	1	250.7	0.37089	0	0	6.5	< 0.002 0.002	0.000
BH594758	10067731.HT		385	1	53.5	0.37089	0	0	62	< 0.010 0.010	0.000
BK675507	10067735.HT		385	1	0	0.37089	0	0	1	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

/mb

Kimberly A. Allison, Manager - TEM Analysis

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## Final Laboratory Report

### TEM Air Analysis

Mr. Scott C. Carroll  
ISP Mineral Products Inc  
1361 Alps Road  
Wayne, NJ 07470  
US

Report Date: 11/2/2009  
Sample Receipt Date: 10/22/2009  
RJ Lee Group Job No.: AOH1006197-1  
Authorization/P.O. No.:  
Samples Received: 7  
Client Job No./Name: TEM Results

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
BH594805	10067683.HT		385	1	224	0.37982	0	0	4	< 0.002 0.002	0.000
BH594777	10067684.HT		385	1	226	0.37982	0	0	11	< 0.002 0.002	0.000
BH594742	10067685.HT		385	1	246	0.37982	0	0	0	< 0.002 0.002	0.000
BH594776	10067686.HT		385	1	219	0.37982	0	0	3.5	< 0.002 0.002	0.000
BH595072	10067687.HT		385	1	225	0.37982	0	0	13.5	< 0.002 0.002	0.000
BH594751	10067688.HT		385	1	222	0.37982	0	0	8	< 0.002 0.002	0.000
BH595164	10067689.HT		385	1	216	0.37982	0	0	9	< 0.002 0.002	0.000

#### Notes:

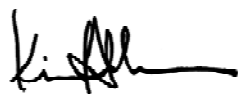
- Volumes provided by ISP Mineral Products Inc were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: AOH1006197-1  
Client Job No/Name: TEM Results

ISP Mineral Products Inc  
Report Date: 11/2/2009

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	

Authorized Signature:  /mb  
Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Mr. Scott C. Carroll  
ISP Mineral Products Inc  
1361 Alps Road  
Wayne, NJ 07470  
US

Report Date: 11/4/2009  
Sample Receipt Date: 10/28/2009  
RJ Lee Group Job No.: ATH1007527-0  
Authorization/P.O. No.:  
Samples Received: 4  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BK675380	10076470.HT	Control	385	1	0	0.37982	0	0	0	N/A N/A	0.000
BK675444	10076471.HT	Haul Truck 280	385	1	376	0.37982	0	0	14	< 0.001 0.001	0.000
BK675522	10076472.HT	loader - inside 990 cab	385	1	399	0.37982	0	0	8.5	< 0.001 0.001	0.000
BK675358	10076473.HT	990 loader - outside cab	385	1	402	0.37982	0	0	6	< 0.001 0.001	0.000

Authorized Signature: \_\_\_\_\_

/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### Revised

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 11/17/2009  
Sample Receipt Date: 11/5/2009  
RJ Lee Group Job No.: ATH1007676-0  
Authorization/P.O. No.:  
Samples Received: 7  
Client Job No./Name: TEM

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BK675443	10077340.HT		385	.063	136	0.38273	0	0	9.5	< 0.059 0.059	0.000
BK675291	10077341.HT		385	1	132	0.38273	0	0	1	< 0.004 0.004	0.000
BK675429	10077342.HT		385	1	146	0.38273	0	0	12	< 0.003 0.003	0.000
BK675187	10077343.HT		385	1	132	0.38273	0	0	2	< 0.004 0.004	0.000
BK675414	10077344.HT		385	1	156	0.38273	0	0	8.5	< 0.003 0.003	0.000
BK675192	10077345.HT		385	1	130	0.38273	0	0	16	< 0.004 0.004	0.000
BK675467	10077346.HT		385	1	136	0.38273	0	0	1	< 0.004 0.004	0.000

#### Notes:

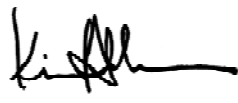
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RJ Lee Group Job No: ATH1007676-0  
Client Job No/Name: TEM

ISP Mineral Products Inc  
Report Date: 11/9/2009

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	

Authorized Signature:  /mb  
Kimberly A. Allison, Manager - TEM Analysis

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 12/23/2009  
Sample Receipt Date: 12/17/2009  
RJ Lee Group Job No.: ATH1008493-0  
Authorization/P.O. No.:  
Samples Received: 4  
Client Job No./Name: TEM

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BM127157	10083102.HT	300 Crusher	385	1	172	0.37905	0	3	28	0.018 0.003	0.097
BM127151	10083103.HT	310/320 Crusher	385	1	166	0.37905	0	0	32.5	< 0.003 0.003	0.000
BM127162	10083104.HT	910 Tunnel	385	1	166	0.37905	0	0	5.5	< 0.003 0.003	0.000
BM127176	10083105.HT	C1 Tunnel	385	1	132	0.37905	0	0	12.5	< 0.004 0.004	0.000

Authorized Signature: \_\_\_\_\_

/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

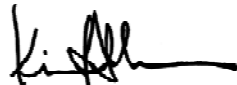
### TEM Air Analysis

Mr. Scott C. Carroll  
ISP Mineral Products Inc  
1361 Alps Road  
Wayne, NJ 07470  
US

Report Date: 12/23/2009  
Sample Receipt Date: 12/18/2009  
RJ Lee Group Job No.: ATH1008523-0  
Authorization/P.O. No.:  
Samples Received: 5  
Client Job No./Name: TEM

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BK675186	10083392.HT	Control	385	1	0	0.37905	0	0	4	N/A N/A	0.000
BK675207	10083393.HT	Haul Truck 230	385	1	343	0.37905	0	0	17.5	< 0.001 0.001	0.000
BK675181	10083394.HT	Haul Truck 280	385	1	336	0.37905	0	0	17	< 0.002 0.002	0.000
BK675510	10083395.HT	990 Loader (Outside)	385	1	334	0.37905	0	0	4.5	< 0.002 0.002	0.000
BK675545	10083396.HT	990 Loader (Inside)	385	1	335	0.37905	0	0	0	< 0.002 0.002	0.000

Authorized Signature:  /mb  
Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 2/26/2010  
Sample Receipt Date: 2/23/2010  
RJ Lee Group Job No.: ATH1009535-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BM127160	10093077.HT		385	1	135.3	0.38195	0	0	11	< 0.004 0.004	0.000
BM127246	10093078.HT		385	1	58.6	0.38195	0	0	20	< 0.009 0.009	0.000
BM127158	10093079.HT		385	1	131.3	0.38195	0	0	49	< 0.004 0.004	0.000
BM127154	10093080.HT		385	1	50.5	0.38195	0	0	47	< 0.010 0.010	0.000
BM127163	10093081.HT		385	1	151.5	0.38195	1	0	21	0.007 0.003	0.045
BM127149	10093082.HT		385	1	58.6	0.38195	0	0	17	< 0.009 0.009	0.000
BM127241	10093083.HT		385	1	108.1	0.38195	0	0	50	< 0.005 0.005	0.000
BM127155	10093084.HT		385	1	104	0.38195	0	0	44.5	< 0.005 0.005	0.000

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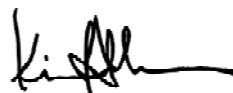
RJ Lee Group Job No: ATH1009535-0  
Client Job No/Name:

ISP Mineral Products Inc  
Report Date:

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BM127159	10093085.HT		385	1	0	0.38195	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_



/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 4/26/2010  
Sample Receipt Date: 4/20/2010  
RJ Lee Group Job No.: ATH1010609-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name: Charmian PA 4-14-10

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BM127150	10101860.HT		385	1	157	0.38843	0	0	7.5	< 0.003 0.003	0.000
BM127140	10101861.HT		385	1	149	0.38843	0	0	9	< 0.003 0.003	0.000
BM127147	10101862.HT		385	.250	101	0.38843	0	0	39	< 0.020 0.020	0.000
BM127152	10101863.HT		385	.250	43	0.38843	0	0	4	< 0.046 0.046	0.000
BM127153	10101864.HT		385	.250	139	0.38843	0	0	8.5	< 0.014 0.014	0.000
BM127135	10101865.HT		385	.250	261	0.38843	0	0	6	< 0.008 0.008	0.000
BM127148	10101866.HT		385	.250	155	0.38843	0	0	5	< 0.013 0.013	0.000
BM127245	10101867.HT		385	.250	269	0.38843	0	0	11	< 0.007 0.007	0.000

#### Notes:

1. Volumes provided by ISP Mineral Products Inc were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
5. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
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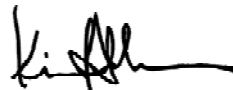
RJ Lee Group Job No: ATH1010609-0  
Client Job No/Name: Charmian PA 4-14-10

ISP Mineral Products Inc  
Report Date: 4/26/2010

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BM127141	10101868.HT		385	1	0	0.38843	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_



/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
5. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## Final Laboratory Report

### TEM Air Analysis

Mr. Roger Kibler  
ISP Mineral Products Inc  
1455 Old Waynesboro Road  
Blue Ridge Summit, PA 17214  
US

Report Date: 6/9/2010  
Sample Receipt Date: 6/8/2010  
RJ Lee Group Job No.: ATH1011447-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BM127132	10107858.HT		385	1	0	0.39306	0	0	0	N/A N/A	0.000
BM127139	10107859.HT		385	1	335	0.39306	0	0	10.5	< 0.001 0.001	0.000
BM127138	10107860.HT		385	1	343	0.39306	0	0	5.5	< 0.001 0.001	0.000
BM127144	10107861.HT		385	1	336	0.39306	0	0	2	< 0.001 0.001	0.000
BM127133	10107862.HT		385	1	334	0.39306	0	0	14	< 0.001 0.001	0.000
BM127242	10107863.HT		385	1	272	0.39306	0	0	6.5	< 0.002 0.002	0.000
BM127145	10107864.HT		385	1	269	0.39306	0	0	17.5	< 0.002 0.002	0.000
BM127146	10107865.HT		385	1	275	0.39306	0	0	15.5	< 0.002 0.002	0.000

#### Notes:

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- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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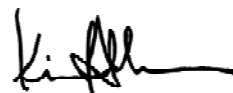
RJ Lee Group Job No: ATH1011447-0  
Client Job No/Name:

ISP Mineral Products Inc  
Report Date: 6/9/2010

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BM127131	10107866.HT		385	1	277	0.39306	0	0	0	< 0.002 0.002	0.000

Authorized Signature: \_\_\_\_\_



/mb

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Mr. Thomas McKinney  
ISP Mineral Products Inc  
1361 Alps Road  
Wayne, NJ 07470

Report Date: 10/7/2010  
Sample Receipt Date: 10/6/2010  
RJ Lee Group Job No.: ATH1013690-0  
Authorization/P.O. No.: CH35721  
Samples Received: 5  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BM127134	10123843.HT		385	1	0	0.37520	0	0	6	N/A N/A	0.000
BM127183	10123844.HT		385	1	290	0.37520	0	0	7	< 0.002 0.002	0.000
BM127142	10123845.HT	Overloaded Not Analyzed	385	1	293	---	---	---	---	-----	---
BM127121	10123846.HT		385	1	340	0.37520	0	0	1	< 0.002 0.002	0.000
BM127114	10123847.HT		385	1	338	0.37520	0	0	15	< 0.002 0.002	0.000

Authorized Signature: \_\_\_\_\_

/mc

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
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## Final Laboratory Report

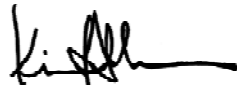
### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 11/3/2010  
Sample Receipt Date: 10/28/2010  
RJ Lee Group Job No.: AOH1014017-1  
Authorization/P.O. No.:  
Samples Received: 5  
Client Job No./Name: Charmian 10-21-10

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BQ762608	10126189.HT	Overloaded Not Analyzed	385	1	59	---	---	---	---	-----	---
BQ762838	10126190.HT		385	1	132	0.37425	0	0	54	< 0.004 0.004	0.000
BQ762596	10126191.HT		385	1	108	0.37425	0	0	3.5	< 0.005 0.005	0.000
BQ762798	10126192.HT		385	1	160	0.37425	0	0	16	< 0.003 0.003	0.000
BQ762806	10126193.HT		385	1	0	0.37425	0	0	0	N/A N/A	0.000

Authorized Signature:  /mc  
Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

- Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
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## Final Laboratory Report

### Revised

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 11/19/2010  
Sample Receipt Date: 9/3/2010  
RJ Lee Group Job No.: ATH1013128-0  
Authorization/P.O. No.: CH35721  
Samples Received: 9  
Client Job No./Name: Charmian 8-30-10

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BM127128	10119741.HT		385	1	109	0.38009	0	0	9	< 0.005 0.005	0.000
BM127130	10119742.HT		385	1	140	0.38009	0	0	16.5	< 0.004 0.004	0.000
BM127116	10119743.HT		385	1	111	0.38009	0	0	33	< 0.005 0.005	0.000
BM127123	10119744.HT		385	1	140	0.38009	0	0	17	< 0.004 0.004	0.000
BM127125	10119745.HT	Not Analyzed	385	1	55	---	---	---	---	-----	---
BM127117	10119746.HT	Not Analyzed	385	1	67	---	---	---	---	-----	---
BM127137	10119747.HT		385	1	116	0.38009	0	0	2	< 0.004 0.004	0.000
BM127120	10119748.HT		385	1	143	0.38009	0	0	4	< 0.004 0.004	0.000

#### Notes:

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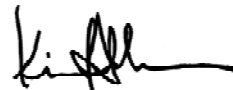
RJ Lee Group Job No: ATH1013128-0  
Client Job No/Name: Charmian 8-30-10

IHSR LLC  
Report Date: 9/10/2010

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BM127118	10119749.HT		385	1	0	0.38009	0	0	0	N/A	0.000
										N/A	

Authorized Signature: \_\_\_\_\_



/mc

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 12/17/2010  
Sample Receipt Date: 12/13/2010  
RJ Lee Group Job No.: ATH1014707-0  
Authorization/P.O. No.: CH35721  
Samples Received: 6  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BQ762609	10132014.HT		385	1	118	0.36972	0	0	26	< 0.004 0.004	0.000
BQ762800	10132015.HT		385	1	116	0.36972	0	0	44.5	< 0.004 0.004	0.000
BQ762777	10132016.HT		385	1	124	0.36972	0	0	26.5	< 0.004 0.004	0.000
BQ762833	10132017.HT		385	1	33	0.36972	0	0	35	< 0.016 0.016	0.000
BQ762825	10132018.HT		385	1	21	0.36972	0	0	13.5	< 0.025 0.025	0.000
BQ762594	10132019.HT		385	1	0	0.36972	0	0	0.5	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

/mc

Kimberly A. Allison, Manager - TEM Analysis

#### Notes:

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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 5/6/2011  
Sample Receipt Date: 5/3/2011  
RJ Lee Group Job No.: ATH1016943-0  
Authorization/P.O. No.: CH35721  
Samples Received: 7  
Client Job No./Name: Charmian 4-25-11

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
BQ762603	10150444.HT		385	1	143	0.36411	0	0	27	< 0.004 0.004	0.000
BQ762842	10150445.HT		385	1	129	0.36411	0	0	36	< 0.004 0.004	0.000
BQ762748	10150446.HT		385	1	134	0.36411	0	0	19	< 0.004 0.004	0.000
BQ762736	10150447.HT		385	1	132	0.36411	0	0	25.5	< 0.004 0.004	0.000
BQ762604	10150448.HT		385	1	103	0.36411	0	0	17	< 0.005 0.005	0.000
BQ762760	10150449.HT		385	1	84	0.36411	0	0	16.5	< 0.006 0.006	0.000
BQ762670	10150450.HT		385	1	0	0.36411	0	0	0	N/A N/A	0.000

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RJ Lee Group Job No: ATH1016943-0  
Client Job No/Name: Charmian 4-25-11

ISP Mineral Products Inc  
Report Date: 5/6/2011

**Title: TEM Air Analysis**

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	

Authorized Signature: \_\_\_\_\_



Matt Sanchez, Manager Analytical Services

**Notes:**

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
ISP Mineral Products Inc  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 6/21/2011  
Sample Receipt Date: 6/10/2011  
RJ Lee Group Job No.: ATH1017533-0  
Authorization/P.O. No.: CH35721  
Samples Received: 9  
Client Job No./Name: Charmian

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BQ 762595	10155227.HT		385	1	135.9	0.37128	0	0	21.5	< 0.004 0.004	0.000
BQ 762588	10155228.HT		385	1	98.2	0.37128	0	0	48.5	< 0.005 0.005	0.000
BQ 762601	10155229.HT	Overloaded Not Analyzed	385	1	31.4	---	---	---	---	-----	---
BQ 762738	10155230.HT	Overloaded Not Analyzed	385	1	20.9	---	---	---	---	-----	---
BQ 762591	10155231.HT		385	1	107.6	0.37128	0	0	39	< 0.005 0.005	0.000
BQ 762593	10155232.HT		385	1	105.6	0.37128	0	0	14	< 0.005 0.005	0.000
BQ 762750	10155233.HT	Overloaded Not Analyzed	385	1	112.6	---	---	---	---	-----	---
BQ 762602	10155234.HT	Overloaded Not Analyzed	385	1	106.5	---	---	---	---	-----	---

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RJ Lee Group Job No: ATH1017533-0  
Client Job No/Name: Charmian

ISP Mineral Products Inc  
Report Date: 6/21/2011

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BQ 762585	10155235.HT		385	1	0	0.37128	0	0	10	N/A N/A	0.000

Authorized Signature:



Matt Sanchez, Manager Analytical Services

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 10/25/2011  
Sample Receipt Date: 10/7/2011  
RJ Lee Group Job No.: ATH1019449-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name: Charmian 9/30/11

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BQ762763	10170059.HT		385	1	148	0.37623	0	0	27	< 0.003 0.003	0.000
BQ762586	10170060.HT		385	1	173	0.37623	0	0	27.5	< 0.003 0.003	0.000
BQ762831	10170061.HT		385	1	147	0.37623	0	0	50	< 0.003 0.003	0.000
BQ762857	10170062.HT		385	1	163	0.37623	0	0	53	< 0.003 0.003	0.000
BQ762592	10170063.HT		385	1	157	0.37623	0	0	42	< 0.003 0.003	0.000
BQ762645	10170064.HT		385	1	161	0.37623	0	0	100.5	< 0.003 0.003	0.000
BQ762714	10170065.HT		385	1	150	0.37623	0	0	97	< 0.003 0.003	0.000
BQ762618	10170066.HT		385	1	29	0.37623	0	0	86.5	< 0.018 0.018	0.000

#### Notes:

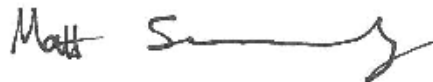
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RJ Lee Group Job No: ATH1019449-0  
Client Job No/Name: Charmian 9/30/11

IHSR LLC  
Report Date: 10/25/2011

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BQ762584	10170067.HT		385	1	0	0.37623	0	0	22	N/A	0.000
										N/A	



Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

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## Chain of Custody

Tel: (724) 325-1776 | Fax: (724) 733-1799

Page 1 of 1

CC06004 Rev. 02

Questions?  
Contact Client Services:  
(724) 325-1776

350 Hochberg Road  
Monroeville, PA 15146  
Tel: (724) 325-1776  
Fax: (724) 733-1799

3583 Investment Blvd.  
Suite 7  
Hayward, CA 94545  
Tel: (510) 544-8400  
Fax: (510) 567-0488

2710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010



## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall  
IHSR, LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 12/20/2011  
Sample Receipt Date: 12/13/2011  
RJ Lee Group Job No.: ATH1020394-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BQ762607	10178185.HT	Overloaded Not Analyzed	385	1	31.8	---	---	---	---	-----	---
Q415753	10178186.HT		385	1	23.3	0.36199	0	0	6	< 0.023 0.023	0.000
Q415772	10178187.HT		385	1	125.4	0.36199	0	0	3	< 0.004 0.004	0.000
Q415787	10178188.HT		385	1	110.8	0.36199	0	0	7.5	< 0.005 0.005	0.000
Q415764	10178189.HT		385	1	142.8	0.36199	0	0	10.5	< 0.004 0.004	0.000
Q415776	10178190.HT		385	1	102	0.36199	0	0	8.5	< 0.005 0.005	0.000
BQ762630	10178191.HT		385	1	143.5	0.36199	0	0	22	< 0.004 0.004	0.000
V140294	10178192.HT		385	1	115.1	0.36199	0	0	25.5	< 0.005 0.005	0.000

#### Notes:

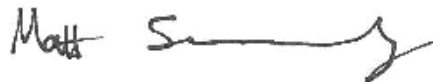
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RJ Lee Group Job No: ATH1020394-0  
Client Job No/Name:

Specialty Granules Inc.  
Report Date: 12/20/2011

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
V140328	10178193.HT		385	1	0	0.36199	0	0	0	N/A	0.000
										N/A	



Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

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## Request for Laboratory Analytical Services

Page 1 of 3

## Chain of Custody

CC06004 Rev. 02

Lab Use Only	Purchase Order No.:	Client Job No.:	Turnaround Request	(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)																		
	Project No.:	Client No.:		Standard:	Yes ?	No ?	If 'No,' No. of Business Days:															
	Date Logged In:	Logged In By:		Sample Purpose:	Information	Regulatory																
	Name:		Drinking Water Sample Only	System ID No.:																		
	Company:			DOH Source No.:																		
	Address:			Multiple Sources Nos.:																		
	City, State, Zip:			Sample Purpose: A ? B ? Other ?																		
	Phone:	Fax:		Preservation:	Matrix:																	
	Call with Verbal Results:			Unpres	H <sub>2</sub> SO <sub>4</sub>	WW=Wastewater	SW=Surface Water															Container:
	Email Results To:			4°C	HCl	GW=Groundwater	DW=Drinking Water															P=Plastic
	Fax Results To:			NaOH	S=Soil/Sludge	O=Oil															G=Glass	
	Name:			Na <sub>2</sub> SO <sub>4</sub>	E=Extract	X=Other															W=Wipe	
	Company:	Email:																		A=Air (filter or tube)		
Send Invoice To	Address:			Analysis Requested												Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers	
	City, State, Zip:			TEM	NH <sub>4</sub>	7300	form Magnesium	chloride														
Special Instructions	Phone:	Fax:																				
Sample Identification	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume																		
CE467326		11/15/12		118L	X																	
CE467322				99L	X																	
CE467320				158L	X																	
CE467309				156L	X																	
CE467340				102L	X																	
CE467317				138L	X																	
CE467324				64L	X																	
CE467642				113L	X																	
CE467795				79L	X																	
CE467713				120L	X																	
CE467316				118L	X																	
CE467319				99L	X																	
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Chain of Custody	Received By (Signature):	Date:	Time:															
	Relinquished By (Print Name):	Relinquished To:			Received By (Print Name):	Relinquished To:																
	Company Name:	Method of Shipment:			Company Name:	Method of Shipment:																
Chain of Custody	Relinquished By (Signature):	Date:	Time:	Chain of Custody	Received By (Signature):	Date:	Time:															
	Relinquished By (Print Name):	Relinquished To:			Received By (Print Name):	Relinquished To:																
	Company Name:	Method of Shipment:			Company Name:	Method of Shipment:																

Questions?  
Contact Client Services:  
(724) 325-1776350 Hochberg Road  
Monroeville, PA 15146  
Tel: (724) 325-1776  
Fax: (724) 733-17993583 Investment Blvd.  
Suite 7  
Hayward, CA 94545  
Tel: (510) 544-8400  
Fax: (510) 567-04882710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010



## Chain of Custody

Tel: (724) 325-1776 | Fax: (724) 733-1799

Page 2 of 3

CC06004 Rev. 02

Questions?  
Contact Client Services:  
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350 Hochberg Road  
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Page 3 of 3

CC06004 Rev. 02

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## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall, PhD IHSR  
Specialty Granules Inc.  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 11/30/2012  
Sample Receipt Date: 11/23/2012  
RJ Lee Group Job No.: ATH1024820-0  
Authorization/P.O. No.:  
Samples Received: 23  
Client Job No./Name: Charmian

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
CE467326	10221000.HT		385	1	118	0.35247	0	1	75	0.009 0.005	0.013
CE467322	10221001.HT		385	1	99	0.35247	0	0	32	< 0.006 0.006	0.000
CE467320	10221002.HT		385	1	158	0.35247	0	0	23.5	< 0.003 0.003	0.000
CE467309	10221003.HT		385	1	156	0.35247	0	0	16.5	< 0.004 0.004	0.000
CE467340	10221004.HT		385	1	102	0.35247	0	0	13.5	< 0.005 0.005	0.000
CE467317	10221005.HT		385	1	138	0.35247	0	0	4.5	< 0.004 0.004	0.000
CE467324	10221006.HT		385	1	64	0.35247	0	0	54	< 0.009 0.009	0.000
CE467642	10221007.HT	Overloaded Not Analyzed	385	1	113	---	---	---	---	-----	---

#### Notes:

- Volumes provided by Specialty Granules Inc. were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

RJ Lee Group Job No: ATH1024820-0

Client Job No/Name: Charmian

Specialty Granules Inc.

Report Date: 11/30/2012

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CE467795	10221008.HT	Overloaded Not Analyzed	385	1	79	---	---	---	---	-----	---
CE467713	10221009.HT		385	1	120	0.35247	0	0	57	< 0.005 0.005	0.000
CE467316	10221010.HT		385	1	118	0.35247	0	0	56.5	< 0.005 0.005	0.000
CE467319	10221011.HT		385	1	99	0.35247	0	0	71.5	< 0.006 0.006	0.000
CE467329	10221012.HT		385	1	167	0.35247	0	77	0	0.504 0.003	1.000
CE467437	10221013.HT		385	1	0	0.35247	0	0	0	N/A N/A	0.000
CE467394	10221014.HT		385	1	70	0.35247	0	0	36.5	< 0.008 0.008	0.000
CE467766	10221015.HT		385	1	107	0.35247	0	0	33.5	< 0.005 0.005	0.000
CE467812	10221016.HT		385	1	128	0.35247	0	0	46	< 0.004 0.004	0.000
CE467800	10221017.HT		385	1	175	0.35247	0	0	15.5	< 0.003 0.003	0.000
CE467301	10221018.HT		385	1	176	0.35247	0	0	19	< 0.003 0.003	0.000
CE467755	10221019.HT		385	1	223	0.35247	0	0	53	< 0.002 0.002	0.000
CE467679	10221020.HT		385	1	175	0.35247	0	2	4	0.012 0.003	0.333

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RJ Lee Group Job No: ATH1024820-0

Client Job No/Name: Charmian

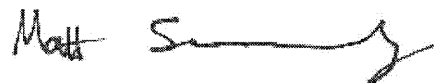
Specialty Granules Inc.

Report Date: 11/30/2012

**Title: TEM Air Analysis**

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CE467770	10221021.HT		385	1	243	0.35247	0	0	0	< 0.002 0.002	0.000
CE467814	10221022.HT		385	1	0	0.35247	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_



Matt Sanchez, Manager Analytical Services

**Notes:**

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5. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## DISCLAIMER

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.





## Chain of Custody

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Page 1 of 4

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Questions?  
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Pasco, WA 99301  
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## Chain of Custody

Page 2 of 2

Purchase Order No.:		Client Job No.:		Turnaround Request		(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)																	
Project No.:		Client No.:		Standard: Yes ? <input checked="" type="checkbox"/> No ? <input type="checkbox"/>		If 'No,' No. of Business Days: 3																	
Date Logged In:		Logged In By:		Drinking Water Sample Only		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/>																	
Name: Tom Hall				Chemistry Analysis Key		System ID No.:																	
Company: HSR LLC						DOH Source No.:																	
Address: 824 NW 42nd St						Multiple Sources Nos.:																	
City, State, Zip: Oklahoma City OK 73118						Sample Purpose: A ? B ? Other ?																	
Phone: 405 209 3307		Fax: ( )				Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>																	
Call with Verbal Results:						Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract																	
Email Results To:						Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)																	
Fax Results To:																							
Name: Matt Watson																							
Company: SGT		Email:																					
Address:																							
City, State, Zip:																							
Phone: ( )		Fax: ( )																					
Special Instructions																							
Sample Identification		Sample Description		Sample Date		Sample Time		Wipe Area / Air Volume		TEM		Pres. Upon Receipt (Y/N)		Preservation		Matrix		Container Type		pH		No. Containers	
CE467651				12/10/12				145L		X													
CE467716								127L		X													
CE467738								327L		X													
CE467756								316L		X													
CE467793								149L		X													
CE467805								146L		X													
CE467836		Blank								X													
CE467869								65L		X													
Chain of Custody		Relinquished By (Signature): [Signature]		Date: 12/11/12		Time:		Chain of Custody		Received By (Signature): [Signature]		Date: 12-12-12		Time: 10:40am									
		Relinquished By (Print Name): [Name]		Relinquished To:		Method of Shipment: Fedex				Received By (Print Name): [Name]		Relinquished To:		Method of Shipment:									
		Company Name:		Method of Shipment:						Company Name: [Name]		Method of Shipment:											
Chain of Custody		Relinquished By (Signature):		Date:		Time:		Chain of Custody		Received By (Signature):		Date:		Time:									
		Relinquished By (Print Name):		Relinquished To:		Method of Shipment:				Received By (Print Name):		Relinquished To:		Method of Shipment:									
		Company Name:		Method of Shipment:						Company Name:		Method of Shipment:											

2710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010



## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall, PhD  
IHSR, LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 12/19/2012  
Sample Receipt Date: 12/12/2012  
RJ Lee Group Job No.: ATH1025013-0  
Authorization/P.O. No.:  
Samples Received: 20  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
CE467310	10222220.HT		385	1	76	0.34650	0	0	12.5	< 0.007 0.007	0.000
CE467311	10222221.HT		385	1	123	0.34650	0	0	10.5	< 0.005 0.005	0.000
CE467312	10222222.HT		385	1	227	0.34650	0	0	20	< 0.002 0.002	0.000
CE467313	10222223.HT	Overloaded Not Analyzed	385	1	108	---	---	---	---	-----	---
CE467314	10222224.HT		385	1	320	0.34650	0	0	30	< 0.002 0.002	0.000
CE467315	10222225.HT		385	1	141	0.34650	0	0	7.5	< 0.004 0.004	0.000
CE467325	10222226.HT		385	1	149	0.34650	0	0	50	< 0.004 0.004	0.000
CE467328	10222227.HT		385	1	219	0.34650	0	0	0	< 0.003 0.003	0.000

#### Notes:

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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RJ Lee Group Job No: ATH1025013-0  
Client Job No/Name:

IHSR, LLC  
Report Date: 12/18/2012

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
CE467344	10222228.HT		385	1	113	0.34650	0	0	0	< 0.005 0.005	0.000
CE467355	10222229.HT		385	1	0	0.34650	0	0	0	N/A N/A	0.000
CE467540	10222230.HT		385	1	232	0.34650	0	0	46.5	< 0.002 0.002	0.000
CE467579	10222231.HT		385	1	125	0.34650	0	0	37.5	< 0.004 0.004	0.000
CE467651	10222232.HT		385	1	145	0.34650	0	0	19.5	< 0.004 0.004	0.000
CE467716	10222233.HT		385	1	127	0.34650	0	0	7.5	< 0.004 0.004	0.000
CE467738	10222234.HT		385	1	327	0.34650	0	0	31	< 0.002 0.002	0.000
CE467756	10222235.HT		385	1	316	0.34650	0	0	8.5	< 0.002 0.002	0.000
CE467793	10222236.HT		385	1	149	0.34650	0	0	13	< 0.004 0.004	0.000
CE467805	10222237.HT		385	1	146	0.34650	0	0	16.5	< 0.004 0.004	0.000
CE467836	10222238.HT		385	1	0	0.34650	0	0	1	N/A N/A	0.000
CE467869	10222239.HT	Overloaded Not Analyzed	385	1	65	---	---	---	---	-----	---

#### Notes:

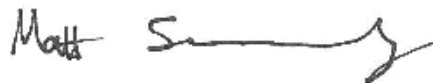
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RJ Lee Group Job No: ATH1025013-0  
Client Job No/Name:

IHSR, LLC  
Report Date: 12/18/2012

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	



Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

#### Notes:

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## Final Laboratory Report

### TEM Air Analysis

Ms. Celeste Levine  
Specialty Granules Inc.  
1361 Alps Road  
Wayne, NJ 07470  
US

Report Date: 2/12/2013  
Sample Receipt Date: 2/8/2013  
RJ Lee Group Job No.: AOH1025423-1  
Authorization/P.O. No.: CH43320  
Samples Received: 4  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BQ762843	10226466.HT		385	1	102.5	0.35738	0	0	1.5	< 0.005 0.005	0.000
BQ762758	10226467.HT		385	1	101.5	0.35738	0	0	5	< 0.005 0.005	0.000
BQ762832	10226468.HT		385	1	118.32	0.35738	0	0.5	6	0.005 0.005	0.077
BQ762620	10226469.HT		385	1	130.56	0.35738	0	0	34.5	< 0.004 0.004	0.000

Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

#### Notes:

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.



RJL: AOH1025423-1	10226466.HT	Microscope tem2000fx2	Grid Openings	40
BQ762843	Specialty Granu	Magnification 1 KX	Asbestos	0.0
Vol: 102.5liter(s)	Grid:0.0089mm²	Acc. Voltage 120 KV	Nonasbestos	1.5
Filter Size: 25mm		Operator: Jon Swope	Total Fibers	1.5
HQ39002		Cv = 0	Fiber Ratio	0

[illegible]

## 4% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 2/11/2013 10:45:23 AM approve by Jon Swope

Final Review: 2/12/13 8:48 AM approve by Shannon Arlauckas

**RJ Lee Group, Inc.**  
**TEM Count Sheet**

Date Analyzed: 2/11/2013

RJL: AOH1025423-1	10226467.HT	Microscope tem2000fx2	Grid Openings	40
BQ762758	Specialty Granu	Magnification 1 KX	Asbestos	0.0
Vol: 101.5liter(s)	Grid:0.0089mm <sup>2</sup>	Acc. Voltage 120 KV	Nonasbestos	5.0
Filter Size: 25mm		Operator: Jon Swope	Total Fibers	5.0
HQ39002		Cv = 0	Fiber Ratio	0

Fiber Type	Count	EDX	EDX File	SAED	Photo	ID	C/A
NSD							
NSD							
Non-Asbestos	1					Cell	
NSD							
NSD							
NSD							
NSD							
Non-Asbestos	1					Cell	
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
NSD							
Non-Asbestos	1					Cell	
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
NSD							
NSD							
NSD							
NSD							

4% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 2/12/13 8:48 AM approve by Shannon Arlauckas

**RJ Lee Group, Inc.**  
**TEM Count Sheet**

Date Analyzed: 2/11/2013

RJL: AOH1025423-1	10226468.HT	Microscope tem2000fx2	Grid Openings	40
BQ762832	Specialty Granu	Magnification 1 KX	Asbestos	0.5
Vol: 118.32liter(s)	Grid:0.0089mm <sup>2</sup>	Acc. Voltage 120 KV	Nonasbestos	6.0
Filter Size: 25mm		Operator: Jon Swope	Total Fibers	6.5
HQ39002		Cv = 0.024	Fiber Ratio	0.077

Fiber Type	Count	EDX	EDX File	SAED	Photo	ID	C/A
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1					Cell	
NSD							
NSD							
NSD							
Amphibole	0.5	MgSiCaFe	5902D	Diff1	Image1	Acti	
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							
NSD							

6% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 2/11/2013 12:26:49 PM approve by Jon Swope

**RJ Lee Group, Inc.**  
**TEM Count Sheet**

Date Analyzed: 2/11/2013

RJL: AOH1025423-1	10226468.HT	Microscope tem2000fx2	Grid Openings	40
BQ762832	Specialty Granu	Magnification 1 KX	Asbestos	0.5
Vol: 118.32liter(s)	Grid:0.0089mm <sup>2</sup>	Acc. Voltage 120 KV	Nonasbestos	6.0
Filter Size: 25mm		Operator: Jon Swope	Total Fibers	6.5
HQ39002		Cv = 0.024	Fiber Ratio	0.077

Final Review: 2/12/13 8:48 AM approve by Shannon Arlauckas

**RJ Lee Group, Inc.**  
**TEM Count Sheet**

Date Analyzed: 2/11/2013

RJL: AOH1025423-1	10226469.HT	Microscope tem1200_2	Grid Openings	40
BQ762620	Specialty Granu	Magnification 1 KX	Asbestos	0.0
Vol: 130.56liter(s)	Grid:0.0089mm <sup>2</sup>	Acc. Voltage 120 KV	Nonasbestos	34.5
Filter Size: 25mm		Operator: Betty Brammell	Total Fibers	34.5
HQ39002		Cv = 0	Fiber Ratio	0

Fiber Type	Count	EDX	EDX File	SAED	Photo	ID	C/A
NSD							
NSD							
Non-Asbestos	1	MgAlSiFe		X			
NSD							
NSD							
Amphibole	1	MgSiCaFe	15513B	X	Image1	Acti	Cle
Amphibole	1	MgAlSiCaFe		X		Acti	Cle
Non-Asbestos	1	MgAlSiFe		X			
NSD							
Amphibole	1	MgSiCaFe	15514B	X	Image2	Trem	Cle
Non-Asbestos	1					Cell	
Non-Asbestos	1	MgAlSiFe		X			
Non-Asbestos	1	MgAlSiFe		X			
Amphibole	1	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1	MgAlSiFe		X			
NSD							
NSD							
Amphibole	0.5	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1					Cell	
NSD							
Non-Asbestos	1	MgAlSiFe		X			
Non-Asbestos	1	MgAlSiFe		X			
NSD							
Non-Asbestos	1	MgAlSiFe		X			
NSD							
NSD							
Non-Asbestos	1	MgAlSiFe		X			
Non-Asbestos	1					Cell	
Non-Asbestos	1	MgAlSiFe		X			
Non-Asbestos	1	MgAlSiFe		X			
Amphibole	1	MgSiCaFe		X		Acti	Cle
Non-Asbestos	0.5					Cell	
Amphibole	1	MgSiCaFe		X		Trem	Cle
Non-Asbestos	1	MgAlSiFe		X			
Non-Asbestos	1	MgAlSiFe		X			
Amphibole	1	MgSiCaFe		X		Trem	Cle
NSD							
Amphibole	1	MgAlSiCaFe		X		Acti	Cle
Amphibole	1	MgSiCaFe		X		Acti	Cle
Amphibole	1	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1	MgAlSiFe		X			
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1	MgAlSiFe		X			

**RJ Lee Group, Inc.**  
**TEM Count Sheet**

Date Analyzed: 2/11/2013

RJL: AOH1025423-1	10226469.HT	Microscope tem1200_2	Grid Openings	40
BQ762620	Specialty Granu	Magnification 1 KX	Asbestos	0.0
Vol: 130.56liter(s)	Grid:0.0089mm <sup>2</sup>	Acc. Voltage 120 KV	Nonasbestos	34.5
Filter Size: 25mm		Operator: Betty Brammell	Total Fibers	34.5
HQ39002		Cv = 0	Fiber Ratio	0

Fiber Type	Count	EDX	EDX File	SAED	Photo	ID	C/A
Amphibole	1	MgSiCaFe		X		Trem	Cle
Non-Asbestos	1	AlSiKFe		X			
NSD							
NSD							
Amphibole	1	MgSiCaFe		X		Acti	Cle
NSD							
Amphibole	0.5	MgSiCaFe		X		Acti	Cle
Non-Asbestos	1	MgAlSiFe		X			

7% Particulate

Abbreviations: F - Fiber, C - Cluster, B - Bundle, M - Matrix, Cle - Cleavage, Asb - Asbestiform, Bys - Byssolite

Initial Review: 2/12/13 8:49 AM approve by Shannon Arlauckas



## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 3/5/2013  
Sample Receipt Date: 2/26/2013  
RJ Lee Group Job No.: ATH1025811-0  
Authorization/P.O. No.: CH43320  
Samples Received: 10  
Client Job No./Name: Charmian

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
Q415774	10231146.HT		385	1	33	0.35848	0	0	15.5	< 0.016 0.016	0.000
CE467327	10231147.HT		385	1	33	0.35848	0	0	19	< 0.016 0.016	0.000
CE467298	10231148.HT		385	1	29	0.35848	0	0	19	< 0.019 0.019	0.000
Q415752	10231149.HT		385	1	31	0.35848	0	0	4.5	< 0.017 0.017	0.000
CE467694	10231150.HT		385	1	557	0.35848	0	0	15	< 0.001 0.001	0.000
Q415851	10231151.HT		385	1	400	0.35848	0	0	29.5	< 0.001 0.001	0.000
BQ762753	10231152.HT		385	1	561	0.35848	0	0	52	< 0.001 0.001	0.000
V140313	10231153.HT		385	1	404	0.35848	0	2	13.5	0.005 0.001	0.129

#### Notes:

- Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

RJ Lee Group Job No: ATH1025811-0

IHSR LLC

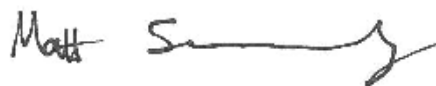
Client Job No/Name: Charmian

Report Date: 3/5/2013

## Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
CE467346	10231154.HT		385	1	539	0.35848	0	0	51	< 0.001 0.001	0.000
Q415775	10231155.HT		385	1	381	0.35848	0	0	21	< 0.001 0.001	0.000

Authorized Signature: \_\_\_\_\_



Matt Sanchez, Manager Analytical Services

## Notes:

1. Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
5. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
6. Samples will be held for 90 days and then disposed of per Federal regulations.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.



## DISCLAIMER

Caution must be applied when interpreting the results of samples prepared using indirect sample preparation techniques. Studies have shown that indirect preparation techniques may result in substantial increases in the fiber count when compared to fiber counts which would have been obtained using direct sample preparation.

RJ Lee Group, Inc. is accredited by the American Industrial Hygenest Association (AIHA-LAP, LLC) and the New York Department of Health Environmental Laboratory Program (NY ELAP) for airborne asbestos analysis. This report may not be used to claim product endorsement by AIHA, NY ELAP, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a AIHA approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.



## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 4/12/2013  
Sample Receipt Date: 4/3/2013  
RJ Lee Group Job No.: CLH1026332-0  
Authorization/P.O. No.:  
Samples Received: 3  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CC277539	10236210.HT		3500	1		0.35972	0	0	4	N/A N/A	0.000
CC277522	10236214.HT		3500	1		0.35972	0	0	8.5	N/A N/A	0.000
CC277265	10236215.HT		3500	1		0.35972	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

#### Notes:

- Volumes provided by ISP - Speciality Granules were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## Final Laboratory Report


### TEM Air Analysis

Dr. Thomas Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118  
US

Report Date: 5/3/2013  
Sample Receipt Date: 4/18/2013  
RJ Lee Group Job No.: CLH1026587-0  
Authorization/P.O. No.:  
Samples Received: 5  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
CC277295	10238070.HT		385	1		0.36987	0	0	0	N/A N/A	0.000
CC277345	10238071.HT		385	1		0.36987	0	0	0	N/A N/A	0.000
CC277495	10238072.HT		385	1		0.36987	0	0	8	N/A N/A	0.000
CC277401	10238073.HT		385	1		0.36987	0	0	0	N/A N/A	0.000
CC277479	10238074.HT		385	1		0.36987	0	0	0	N/A N/A	0.000

Authorized Signature:   
Matt Sanchez, Manager Analytical Services

#### Notes:

- Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall  
IHSR, LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 5/16/2013  
Sample Receipt Date: 4/29/2013  
RJ Lee Group Job No.: CLH1026710-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
BY515245	10239264.HT		385	1	0	0.36987	0	0	19.5	N/A N/A	0.000
BY515122	10239265.HT		385	1	0	0.36987	0	0	20	N/A N/A	0.000
BY515096	10239266.HT	Overloaded Not Analyzed	385	1	0	---	---	---	---	-----	---
BY515046	10239267.HT		385	1	0	0.36987	0	0	11.5	N/A N/A	0.000
BY515155	10239268.HT	Overloaded Not Analyzed	385	1	0	---	---	---	---	-----	---
BY515050	10239269.HT		385	1	0	0.36987	0	0	0	N/A N/A	0.000
BY515133	10239270.HT		385	1	0	0.36987	0	0	4	N/A N/A	0.000
BY515202	10239271.HT		385	1	0	0.36987	0	0	13.5	N/A N/A	0.000

#### Notes:

- Volumes provided by IHSR, LLC were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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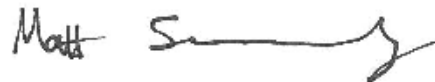
RJ Lee Group Job No: CLH1026710-0  
Client Job No/Name:

IHSR, LLC  
Report Date: 5/16/2013

**Title: TEM Air Analysis**

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity	Ratio (f/F)
							Chry	Amph	NAS	(f/cc)	
BY515129	10239272.HT		385	1	0	0.36987	0	0	8	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_



Matt Sanchez, Manager Analytical Services

**Notes:**

1. Volumes provided by IHSR, LLC were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
5. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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RJ Lee Group, Inc. is accredited by the American Industrial Hygenest Association (AIHA-LAP, LLC) and the New York Department of Health Environmental Laboratory Program (NY ELAP) for airborne asbestos analysis. This report may not be used to claim product endorsement by AIHA, NY ELAP, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a AIHA approved signatory.

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 7/5/2013  
Sample Receipt Date: 5/31/2013  
RJ Lee Group Job No.: ATH1027209-0  
Authorization/P.O. No.: CH43320  
Samples Received: 41  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CC276271	10242748.HT		385	1	151	0.37301	0	0	15	< 0.003 0.003	0.000
CC276430	10242749.HT		385	1	286	0.37301	0	0	17.5	< 0.002 0.002	0.000
CC276452	10242750.HT		385	1	57	0.37301	0	0	0	< 0.009 0.009	0.000
CC276386	10242751.HT		385	1	175	0.37301	0	0	19.5	< 0.003 0.003	0.000
CC276390	10242752.HT		385	1	268	0.37301	0	0	23.5	< 0.002 0.002	0.000
CC279220	10242753.HT		385	1	234	0.37301	0	0	14	< 0.002 0.002	0.000
CC276400	10242754.HT		385	1	120	0.37301	0	0	13.5	< 0.004 0.004	0.000
CC276419	10242755.HT		385	1	282	0.37301	0	0	7	< 0.002 0.002	0.000

#### Notes:

- Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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RJ Lee Group Job No: ATH1027209-0  
Client Job No/Name:

IHSR LLC  
Report Date:

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---	NAS	Sensitivity (f/cc)	Ratio (f/F)
CC276115	10242756.HT	Overloaded Not Analyzed	385	1	64	---	---	---	---	-----	---
CC279715	10242757.HT		385	1	139	0.37301	0	0	21.5	< 0.004 0.004	0.000
CC279196	10242758.HT		385	1	308	0.37301	0	0	22.5	< 0.002 0.002	0.000
CC279730	10242759.HT		385	1	58	0.37301	0	0	3	< 0.009 0.009	0.000
CC279765	10242760.HT		385	1	150	0.37301	0	0	34	< 0.003 0.003	0.000
CC276126	10242761.HT		385	1	258	0.37301	0	0	18.5	< 0.002 0.002	0.000
CC276145	10242762.HT		385	1	62	0.37301	0	1	39	0.017 0.008	0.025
CC276413	10242763.HT		385	1	62	0.37301	0	0	6.5	< 0.008 0.008	0.000
CC276223	10242764.HT		385	1	66	0.37301	0	0	2	< 0.008 0.008	0.000
CC276425	10242765.HT		385	1	66	0.37301	0	0	4.5	< 0.008 0.008	0.000
CC276375	10242766.HT		385	1	64	0.37301	0	0	4.5	< 0.008 0.008	0.000
CC276361	10242767.HT		385	1	62	0.37301	0	0	6	< 0.008 0.008	0.000
CC276233	10242768.HT		385	1	66	0.37301	0	1	1	0.016 0.008	0.500

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RJ Lee Group Job No: ATH1027209-0  
Client Job No/Name:

IHSR LLC  
Report Date: 7/2/2013

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---	NAS	Sensitivity (f/cc)	Ratio (f/F)
CC279739	10242769.HT		385	1	258	0.37301	0	0	15	< 0.002 0.002	0.000
CC276266	10242770.HT		385	1	296	0.37301	0	0	16.5	< 0.002 0.002	0.000
CC276243	10242771.HT		385	1	272	0.37301	0	0	16	< 0.002 0.002	0.000
CC276417	10242772.HT		385	1	250	0.37301	0	0	14	< 0.002 0.002	0.000
CC276135	10242773.HT		385	1	62	0.37301	0	0	17.5	< 0.008 0.008	0.000
CC276301	10242774.HT		385	1	67	0.37301	0	0	5	< 0.008 0.008	0.000
CC276416	10242775.HT		385	1	62	0.37301	0	0	18.5	< 0.008 0.008	0.000
CC276447	10242776.HT		385	1	62	0.37301	0	0	26	< 0.008 0.008	0.000
CC276252	10242777.HT		385	1	132	0.37301	0	0	12.5	< 0.004 0.004	0.000
CC276367	10242778.HT	Overloaded Not Analyzed	385	1	116	---	---	---	---	-----	---
CC279225	10242779.HT		385	1	137	0.37301	0	0	0	< 0.004 0.004	0.000
CC276412	10242780.HT		385	1	137	0.37301	0	0	3	< 0.004 0.004	0.000
CC276309	10242781.HT		385	1	65	0.37301	0	0	10	< 0.008 0.008	0.000

#### Notes:

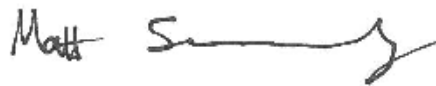
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RJ Lee Group Job No: ATH1027209-0  
Client Job No/Name:

IHSR LLC  
Report Date: 7/2/2013

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CC279725	10242782.HT		385	1	71	0.37301	0	0	1.5	< 0.007 0.007	0.000
CC276427	10242783.HT		385	1	69	0.37301	0	0	8	< 0.007 0.007	0.000
CC276118	10242784.HT		385	1	67	0.37301	0	5	0	0.077 0.008	1.000
CC279229	10242785.HT		385	1	65	0.37301	0	0	9.5	< 0.008 0.008	0.000
CC276378	10242786.HT		385	1	69	0.37301	0	0	2.5	< 0.007 0.007	0.000
CC276444	10242787.HT		385	1	0	0.37301	0	0	23	N/A N/A	0.000
CC276384	10242788.HT		385	1	0	0.37301	0	0	36	N/A N/A	0.000



Authorized Signature:

Matt Sanchez, Manager Analytical Services

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CLH1028741-0

## Request for Environmental and IH Laboratory Analytical Services

Page 1 of 4

Lab Use Only		Purchase Order No.: Project No.: Date Logged In:		Client Job No.: Client No.: Logged In By:		Turnaround Request		Standard: Yes <input checked="" type="radio"/> No <input type="radio"/> If 'No,' No. of Business Days:											
Report Results To		Name: <u>Tom Hall</u> Company: <u>IHS LLC</u> Address: <u>824 NW 42nd St</u> City, State, Zip: <u>OKC OK 73118</u> Phone: <u>405-209-3507</u> Fax: ( ) Call with Verbal Results: Email Results To: <u>thall33@cox.net</u> Fax Results To:				Drinking Water Sample Only		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #:											
		Email: <u>thall33@cox.net</u>				Chemistry Analysis Key		Multiple Sources #:											
		Name: <u>Roger Kibler</u> Company: <u>S&amp;I</u> Email: <u>rkibler@specialtygranular.com</u> Address: <u>1455 Old Waynesboro Rd</u> City, State, Zip: <u>Blue Ridge Summit, PA 17214</u> Phone: <u>405-794-3318</u> Fax: ( )				Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>		Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract		Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)									
		Special Instructions				Analysis Requested		Pres. Upon Receipt (Y/N)		Preservation									
		Client Sample ID		Sample Description		Sample Date		Sample Time		Wipe Area / Air Volume		Matrix		Container Type		pH		No. Containers	
		110598				9/11/13				771		X							
		172492								757		X							
		172498								634		X							
		172480								705		X							
		172497								726		X							
		110603								787		X							
		172500								768		X							
		172494								753		X							
		172491								772		X							
		110589								634		X							
		110600								711		X							
Chain of Custody		Relinquished By (Signature): <u>[Signature]</u> Relinquished By (Print Name): <u>Thayer Jones</u> Company Name: <u>IHS LLC</u>				Date: <u>9/12/13</u> Time: <u></u> Relinquished To: <u>Fedex</u> Method of Shipment: <u>Fedex</u>				Chain of Custody		Received By (Signature): <u>[Signature]</u> Received By (Print Name): <u>Jim Henschell</u> Company Name: <u>R.J.L.G.</u>				Date: <u>09/16/13</u> Time: <u>10:15am</u> Relinquished To: <u></u> Method of Shipment: <u></u>			
Chain of Custody		Relinquished By (Signature): Relinquished By (Print Name): Company Name:				Date: Time: Relinquished To: Method of Shipment:				Chain of Custody		Received By (Signature): Received By (Print Name): Company Name:				Date: Time: Relinquished To: Method of Shipment:			

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

724.325.1776 Phone  
724.733.1799 Fax

724.627.7818 Phone  
724.627.2018 Fax

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301  
509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830  
412.867.9864 Phone



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



# Request for Environmental and IH Laboratory Analytical Services

Page 3 of 4

Lab Use Only		Purchase Order No.: Project No.: Date Logged In:		Client Job No.: Client No.: Logged In By:		Turnaround Request		Standard: Yes No If 'No,' No. of Business Days:	
Report Results To		Name: Company: Address: City, State, Zip: Phone: ( ) Fax: ( )				Drinking Water Sample Only		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: DOH Source #:	
		Call with Verbal Results: Email Results To: Fax Results To:				Chemistry Analysis Key		Multiple Sources #: Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>	
		Send Invoice To				Preservation:		Matrix:	
		Name: Company: Address: City, State, Zip: Phone: ( ) Fax: ( )				Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>		WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract	
		Email:				SW=Surface Water DW=Drinking Water O=Oil X=Other		Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
Special Instructions						Analysis Requested			
Client Sample ID		Sample Description		Sample Date		Sample Time Start Stop		Wipe Area / Air Volume	
CLO46908				9/11/13				494	
CLO46712								534	
CLO46832								495	
CLO46719								468	
CLO50637								349	
110586								780	
172481								737	
172496								844	
CLO50635								514	
CLO46736								504	
110595		blank							
Chain of Custody		Relinquished By (Signature): Relinquished By (Print Name): Company Name:				Date: Time:		Chain of Custody	
Chain of Custody		Relinquished By (Signature): Relinquished By (Print Name): Company Name:				Date: Time:		Chain of Custody	
Chain of Custody		Relinquished By (Signature): Relinquished By (Print Name): Company Name:				Date: Time:		Chain of Custody	
Chain of Custody		Relinquished By (Signature): Relinquished By (Print Name): Company Name:				Date: Time:		Chain of Custody	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830  
412.867.9864 Phone

 **RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



## Page 4 of 10

R3 091112



## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall  
IHSR LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 10/4/2013  
Sample Receipt Date: 9/16/2013  
RJ Lee Group Job No.: CLH1028741-0  
Authorization/P.O. No.:  
Samples Received: 18  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
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CL046724	10253090.HT		385	1	484	0.37012	0	0	47	< 0.001 0.001	0.000
CL046797	10253091.HT		385	1	487	0.37012	0	0	22.5	< 0.001 0.001	0.000
CL046709	10253092.HT		385	1	507	0.37012	0	0	62	< 0.001 0.001	0.000
CL046803	10253093.HT		385	1	470	0.37012	0	0	78.5	< 0.001 0.001	0.000
CL046723	10253094.HT		385	1	486	0.37012	0	0	65	< 0.001 0.001	0.000
CL046703	10253095.HT		385	1	520	0.20357	0	0	102	< 0.002 0.002	0.000
CL046715	10253096.HT		385	1	531	0.21282	0	0	102.5	< 0.002 0.002	0.000
CL046711	10253097.HT		385	1	524	0.00000	0	0	0	N/A N/A	0.000

#### Notes:

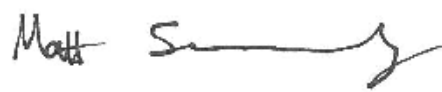
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RJ Lee Group Job No: CLH1028741-0  
Client Job No/Name:

IHSR LLC  
Report Date: 9/30/2013

### Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	---Non---		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CL046830	10253098.HT		385	1	564	0.37012	0	0	71.5	< 0.001 0.001	0.000
CL046708	10253099.HT		385	1	494	0.23133	0	0	103	< 0.002 0.002	0.000
CL046712	10253100.HT		385	1	534	0.21282	0	0	104	< 0.002 0.002	0.000
CL046832	10253101.HT		385	1	495	0.37012	0	0	54	< 0.001 0.001	0.000
CL046719	10253102.HT		385	1	468	0.37012	0	0	59	< 0.001 0.001	0.000
CL050637	10253103.HT		385	1	349	0.37012	0	0	29.5	< 0.001 0.001	0.000
CL050635	10253104.HT		385	1	514	0.37012	0	0	47.5	< 0.001 0.001	0.000
CL046736	10253105.HT		385	1	504	0.37012	0	0	44	< 0.001 0.001	0.000
CL050628	10253106.HT		385	1	0	0.37012	0	0	0	N/A N/A	0.000
CL050630	10253107.HT		385	1	0	0.37012	0	0	0	N/A N/A	0.000

  
 Authorized Signature: \_\_\_\_\_  
 Matt Sanchez, Manager Analytical Services

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## Final Laboratory Report

### TEM Air Analysis

Dr. Thomas A. Hall  
IHSR LLC  
824 NW 42nd Street  
Oklahoma City, OK 73118

Report Date: 12/24/2013  
Sample Receipt Date: 12/17/2013  
RJ Lee Group Job No.: ATH1030119-0  
Authorization/P.O. No.:  
Samples Received: 15  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
CC276404	10263936.HT		385	1	252	0.38228	0	0	19	< 0.002 0.002	0.000
CL046856	10263937.HT		385	1	271	0.38228	0	0	30.5	< 0.002 0.002	0.000
CL046735	10263938.HT		385	1	195	0.38228	0	0	29.5	< 0.003 0.003	0.000
CC279743	10263939.HT		385	1	257	0.38228	0	0	22.5	< 0.002 0.002	0.000
CL046746	10263940.HT		385	1	312	0.38228	0	0	39.5	< 0.002 0.002	0.000
CC279879	10263941.HT		385	1	181	0.38228	0	0	16.5	< 0.003 0.003	0.000
CC279228	10263942.HT		385	1	255	0.38228	0	0	15	< 0.002 0.002	0.000
CC276422	10263943.HT		385	1	313	0.38228	0	0	21	< 0.002 0.002	0.000

#### Notes:

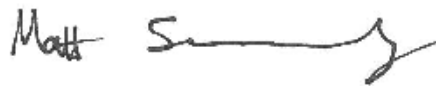
- Volumes provided by IHSR LLC were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

RJ Lee Group Job No: ATH1030119-0  
 Client Job No/Name:

IHSR LLC  
 Report Date: 12/24/2013

## Title: TEM Air Analysis

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
Chry	Amph	NAS									
CL046737	10263944.HT		385	1	175	0.38228	0	0	15.5	< 0.003 0.003	0.000
CC279227	10263945.HT		385	1	255	0.38228	0	0	16.5	< 0.002 0.002	0.000
CC276369	10263946.HT		385	1	313	0.38228	0	0	25.5	< 0.002 0.002	0.000
CL046721	10263947.HT		385	1	175	0.38228	0	0	6	< 0.003 0.003	0.000
CL046695	10263948.HT		385	1	288	0.38228	0	0	3	< 0.002 0.002	0.000
CL050643	10263949.HT		385	1	129	0.38228	0	0	5	< 0.004 0.004	0.000
CL046694	10263950.HT		385	1	0	0.38228	0	0	0	N/A N/A	0.000



Authorized Signature:

Matt Sanchez, Manager Analytical Services

## Notes:

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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## Final Laboratory Report

### TEM Air Analysis

Ms. Celeste Levine  
GAF/ELK  
1361 Alps Road  
Wayne, NJ 07470  
US

Report Date: 1/30/2014  
Sample Receipt Date: 1/20/2014  
RJ Lee Group Job No.: ATH1030431-0  
Authorization/P.O. No.: CH45698  
Samples Received: 6  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----	NAS	Sensitivity (f/cc)	Ratio (f/F)
CL046738	10268350.HT		385	1	0	0.38304	0	0	0	N/A N/A	0.000
CL046717	10268351.HT		385	1	830	0.38304	0	0	19	<0.001 0.001	0.000
CL046805	10268352.HT		385	1	714	0.38304	0	0	13	<0.001 0.001	0.000
CL050649	10268353.HT		385	1	0	0.38304	0	0	0	N/A N/A	0.000
CL046686	10268354.HT		385	1	367	0.38304	0	0	21	<0.001 0.001	0.000
CL050646	10268355.HT		385	1	386	0.38304	0	0	11	<0.001 0.001	0.000

Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

#### Notes:

- Volumes provided by GAF/ELK were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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R3\_091112



Tel: (724) 325-1776 | Fax: (724) 733-1799

Page 2 of 2

### Chain of Custody

CC06004 Rev. 02

2710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010



## Final Laboratory Report

### TEM Air Analysis

Dr. Tom Hall  
IHSR, LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 3/18/2014  
Sample Receipt Date: 3/10/2014  
RJ Lee Group Job No.: CLH1031068-0  
Authorization/P.O. No.:  
Samples Received: 2  
Client Job No./Name:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution Factor	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	Fibers (f)			Asbestos Concentration	
							---Asbestos---	----Non----		Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
BY515084	10277039.HT		385	1	1006	0.38606	0	1.5	54.5	0.001 0.001	0.027
BY515094	10277040.HT		385	1	1001	0.38606	0	9.5	41	0.009 0.001	0.188

Authorized Signature: \_\_\_\_\_

Matt Sanchez, Manager Analytical Services

#### Notes:

- Volumes provided by Specialty Granules Inc were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- Sample(s) for this project were analyzed at our: Monroeville, PA (AIHA #100364, NVLAP #101208-0, NY ELAP #10844) facility.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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ATH 1031656.0

<b>Pennsylvania - HQ</b> 350 Hochberg Road Monroeville, PA 15146	<b>Pennsylvania - Waynesburg</b> 100 EverGreene Drive, Suite 101 Waynesburg, PA 15370	<b>Washington</b> Center for Laboratory Services 2710 North 20th Avenue Pasco, WA 99301	<b>Tennessee</b> 1000 Heritage Center Boulevard Building 1000 Oak Ridge, TN 37830	 <b>RJ LEE GROUP</b> DELIVERING SCIENTIFIC RESOLUTION
724.325.1776 <b>Phone</b> 724.733.1799 <b>Fax</b>	724.627.7818 <b>Phone</b> 724.627.2018 <b>Fax</b>	509.545.4989 <b>Phone</b> 509.544.6010 <b>Fax</b>	412.867.9864 <b>Phone</b>	

## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 Specialty Granules Inc  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 04/28/2014  
 Sample Receipt Date: 04/17/2014  
 RJ Lee Group Job No.: ATH1031656-0  
 Authorization/P.O. No.: CH47474  
 Samples Received: 5  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter) (mm <sup>2</sup> )	Area Analyzed	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity (f/cc)	Ratio (f/F)
BF247018	10282711.HT		385	1	396	0.34334	0	0	101.5	$\leq \frac{0.001}{0.001}$	0.000
BF247001	10282712.HT		385	1	366	0.39238	0	0	60.5	$\leq \frac{0.001}{0.001}$	0.000
BF247118	10282713.HT		385	1	319	0.24524	0	0	100.5	$\leq \frac{0.002}{0.002}$	0.000
BF247134	10282714.HT		385	1	379	0.27467	0	0	103	$\leq \frac{0.002}{0.002}$	0.000

#### NOTES

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1031656-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 04\28\2014

Client Sample Number	RJLG Sample Number	Sample Description	-----Fibers (f)-----							Asbestos Concentration	
			Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter) (mm <sup>2</sup> )	Area Analyzed	-----Asbestos-----		---Non---	<u>Concentration</u> Sensitivity	Ratio (f/F)
							Chry Amph		NAS	(f/cc)	
BF246993	10282715.HT		385	1	0	0.11772	0	0	0	N/A N/A	0.000



Authorized Signature: \_\_\_\_\_  
Matt Sanchez, Director Analytical Services

### NOTES

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4. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
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CUN1033371-0 Page 1 of 3

<b>Pennsylvania - HQ</b> 350 Hochberg Road Monroeville, PA 15146	<b>Pennsylvania - Waynesburg</b> 100 EverGreene Drive, Suite 101 Waynesburg, PA 15370	<b>Washington</b> Center for Laboratory Services 2710 North 20th Avenue Pasco, WA 99301	<b>Tennessee</b> 1000 Heritage Center Boulevard Building 1000 Oak Ridge, TN 37830	 <b>RJ LEE GROUP</b> DELIVERING SCIENTIFIC RESOLUTION
724.325.1776 <b>Phone</b> 724.733.1799 <b>Fax</b>	724.627.7818 <b>Phone</b> 724.627.2018 <b>Fax</b>	509.545.4989 <b>Phone</b> 509.544.6010 <b>Fax</b>	412.867.9864 <b>Phone</b>	

# Request for Environmental and IH Laboratory Analytical Services

CUH1033371-0

Page 2 of 3

Purchase Order No.:		Client Job No.:		Turnaround Request		Standards: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If 'No,' No. of Business Days:	
Lab Use Only		Project No.:		Client No.:		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Date Logged In:		Logged In By:		Drinking Water Sample Only		System ID #:	
Name:		Address:		DOH Source #:		Multiple Sources #s:	
City, State, Zip:		Phone:		Fax: ( )		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>	
Call with Verbal Results:		Email Results To:		Chemistry Analysis Key		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub> Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
Fax Results To:		Name:		Company:		Email:	
Send Invoice To		Address:		City, State, Zip:		Phone: ( ) Fax: ( )	
Special Instructions		Analysis Requested		Pres. Upon Receipt (Y/N)		Preservation	
						Matrix	
						Container Type	
						pH	
						No. Containers	
Client Sample ID		Sample Description		Sample Date		Sample Time	
						Start Stop	
						Wipe Area / Air Volume	
B4515100		Blank		8/13/14		TEM	
215787		Blank				Dust-mes	
215781						XRD	
215791							
215795						901L	
215780						743L	
215784						811L	
215792						686L	
215793						817L	
215785						819L	
215779						766L	
						695L	
						802L	
Chain of Custody		Relinquished By (Signature):		Date: 8/14/14 Time:		Chain of Custody	
		Relinquished By (Print Name):		Relinquished To: FedEx		Received By (Signature):	
		Company Name: IHSR		Method of Shipment: FedEx		Received By (Print Name):	
						Company Name: R.J. Lee	
Chain of Custody		Relinquished By (Signature):		Date: 08-20-14 Time: 10:48		Chain of Custody	
		Relinquished By (Print Name):		Relinquished To:		Received By (Signature): M. Carse	
		Company Name:		Method of Shipment:		Received By (Print Name): H. Carse	
						Company Name: R.J. Lee Group	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

724.627.7818 Phone  
724.627.2018 Fax

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

412.867.9864 Phone



CUH103371-0

Page 3 of 3

R3\_091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 IHSR  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 09/03/2014  
 Sample Receipt Date: 08/20/2014  
 RJ Lee Group Job No.: CUH1033371-0  
 Authorization/P.O. No.:  
 Samples Received: 12  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry Amph	NAS			
BY515101	10295753.HT		385	1	331	0.39674	0	0	71.5	$\leq 0.001$ 0.001	0.000
BY515085	10295754.HT		385	1	309	0.39674	0	0	99	$\leq 0.002$ 0.002	0.000
BY515097	10295755.HT		385	1	311	0.21821	0	0	100.5	$\leq 0.003$ 0.003	0.000
BY515098	10295756.HT		385	1	273	0.39674	0	0	28	$\leq 0.002$ 0.002	0.000

#### NOTES

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1033371-0  
Client Job No/Name:

Client: IHSR  
Report Date: 09\03\2014

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm²)	Dilution	Volume (liter)	Area Analyzed (mm²)	-----Fibers (f)-----		Asbestos Concentration		
							Chry	Amph	NAS	Concentration Sensitivity (f/cc)	Ratio (f/F)
BY515124	10295757.HT		385	1	260	0.36699	0	0	100	<u>&lt; 0.002</u> 0.002	0.000
BY515214	10295758.HT		385	1	276	0.39674	0	0	76.5	<u>&lt; 0.002</u> 0.002	0.000
BY515095	10295759.HT		385	1	322	0.19837	0	0	102	<u>&lt; 0.003</u> 0.003	0.000
BY515093	10295760.HT		385	1	326	0.30748	0	0	101.5	<u>&lt; 0.002</u> 0.002	0.000
BY515128	10295761.HT		385	1	310	0.29756	0	0	101.5	<u>&lt; 0.002</u> 0.002	0.000
BY515111	10295762.HT		385	1	337	0.39674	0	0	88.5	<u>&lt; 0.001</u> 0.001	0.000
BY515108	10295763.HT		385	1	404	0.20829	0	0	104.5	<u>&lt; 0.002</u> 0.002	0.000
BY515100	10295764.HT		385	1	0	0.39674	0	0	0	N/A N/A	0.000

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1033371-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: IHSR  
Report Date: 09\03\2014



Authorized Signature: \_\_\_\_\_  
Matt Sanchez, Director Analytical Services

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
6. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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RJ LeeGroup, Inc.

350 Hochberg Road, Monroeville, PA 15146

Tel: (724) 325-1776 | Fax: (724) 733-1799

DA161220140001

## Request for Laboratory Analytical Services

Page 1 of 2

## Chain of Custody

CC06004 Rev. 02

Lab Use Only	Purchase Order No.:	Client Job No.:	Turnaround Request	(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)																	
	Project No.:	Client No.:		Standard: Yes ? No ?	If 'No,' No. of Business Days:																
Report Results To	Date Logged In:	Logged In By:	Drinking Water Sample Only	Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/>																	
	Name: Tom Hall			System ID No.:																	
	Company: H&R			DOH Source No.:																	
	Address: 824 NW 42nd St			Multiple Sources Nos.:																	
	City, State, Zip: Oklaheima City OK 73118			Sample Purpose: A ? B ? Other ?																	
	Phone: (405) 209-3507 Fax: ( )			Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HNO <sub>3</sub> Other Na <sub>2</sub> SO <sub>4</sub>																	
	Call with Verbal Results: no			Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract																	
	Email Results To: thall33@cox.net			Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)																	
Send Invoice To	Name: Roger Kibler		Chemistry Analysis Key																		
	Company: S&I	Email: rkibler@specialtygranules.com																			
	Address: 1455 Old Waynerboro Rd																				
Special Instructions	City, State, Zip: Blue Ridge Summit, PA 17214		Analysis Requested																		
	Phone: (717) 794-3318 Fax: (717) 794-5240																				
Sample Identification		Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	resp. adjust and quant. mass									Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
			Start	Stop																	
215786			12/10/14		1147	K															
215776					844	K															
215782					777	K															
215774					810	K															
215778					814	K															
215773			12/11/14		697	K															
215771					754	K															
215772					776	K															
215767					772	K															
215769					769	K															
215770					710	K															
229450		Blank				K															
Chain of Custody	Relinquished By (Signature): [Signature]	Date: 12/11/14	Time:	Chain of Custody	Received By (Signature): [Signature]	Date: 12/15/14		Time: 11:15													
	Relinquished By (Print Name): [Name]	Relinquished To: [Name]	Received By (Print Name): [Name]		Relinquished To: [Name]																
	Company Name: [Name]	Method of Shipment: [Method]	Company Name: [Name]		Method of Shipment: [Method]																
Chain of Custody	Relinquished By (Signature): [Signature]	Date:	Time:	Chain of Custody	Received By (Signature): [Signature]	Date: 12-16-14	Time: 8:17														
	Relinquished By (Print Name): [Name]	Relinquished To: [Name]	Received By (Print Name): [Name]		Relinquished To: [Name]																
	Company Name: [Name]	Method of Shipment: [Method]	Company Name: [Name]		Method of Shipment: [Method]																

Questions?  
Contact Client Services:  
(724) 325-1776350 Hochberg Road  
Monroeville, PA 15146  
Tel: (724) 325-1776  
Fax: (724) 733-17993583 Investment Blvd.  
Suite 7  
Hayward, CA 94545  
Tel: (510) 544-8400  
Fax: (510) 567-04882710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010 \*



CUH 1034822-0

## Request for Laboratory Analytical Services

Page 2 of 2

## Chain of Custody

CC06004 Rev. 02

Purchase Order No.:		Client Job No.:		Turnaround Request		(If Left Blank, A Standard TA is Assumed; Please Do Not Use Vague Terms Like ASAP)																	
Project No.:		Client No.:		Standard: Yes ? No ?		If 'No,' No. of Business Days:																	
Date Logged In:		Logged In By:		Drinking Water Sample Only		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/>																	
Name:				System ID No.:																			
Company:		See page 1		DOH Source No.:																			
Address:				Multiple Sources Nos.:																			
City, State, Zip:				Sample Purpose: A ? B ? Other ?																			
Phone: ( )		Fax: ( )		Chemistry Analysis Key		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HNO <sub>3</sub> Other NaOH Na <sub>2</sub> SO <sub>4</sub> Matrix: WW=Wastewater GW=Groundwater S=Soil/Sludge E=Extract SW=Surface Water DW=Drinking Water O=Oil X=Other Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)																	
Call with Verbal Results:																							
Email Results To:																							
Fax Results To:																							
Name:		See page 1																					
Company:																							
Address:																							
City, State, Zip:																							
Phone: ( )		Fax: ( )																					
Special Instructions																							
Sample Identification		Sample Description		Sample Date		Sample Time		Wipe Area / Air Volume		Analysis Requested		Pres. Upon Receipt (Y/N)		Preservation		Matrix		Container Type		pH		No. Containers	
BF 247023				12/9/14				803		X													
BY 515102								788		X													
CL 046848								779		X													
BY 511349								445		X													
CL 046706								315		X													
CL 046714		blank								X													
CL 050650				12/10/14				715		X													
BY 515160								669		X													
CL 046802								630		X													
Chain of Custody		Relinquished By (Signature):		Date:		Time:		Chain of Custody		Received By (Signature):		Date:		Time:		Chain of Custody		Received By (Signature):		Date:		Time:	
Relinquished By (Print Name):		Relinquished To:		Relinquished To:		Relinquished To:		Received By (Print Name):		Received By (Print Name):		Relinquished To:		Relinquished To:		Received By (Print Name):		Received By (Print Name):		Relinquished To:		Relinquished To:	
Company Name:		Method of Shipment:		Method of Shipment:		Method of Shipment:		Company Name:		Company Name:		Method of Shipment:		Method of Shipment:		Company Name:		Company Name:		Method of Shipment:		Method of Shipment:	
Chain of Custody		Relinquished By (Signature):		Date:		Time:		Chain of Custody		Received By (Signature):		Date:		Time:		Chain of Custody		Received By (Signature):		Date:		Time:	
Relinquished By (Print Name):		Relinquished To:		Relinquished To:		Relinquished To:		Received By (Print Name):		Received By (Print Name):		Relinquished To:		Relinquished To:		Received By (Print Name):		Received By (Print Name):		Relinquished To:		Relinquished To:	
Company Name:		Method of Shipment:		Method of Shipment:		Method of Shipment:		Company Name:		Company Name:		Method of Shipment:		Method of Shipment:		Company Name:		Company Name:		Method of Shipment:		Method of Shipment:	

Questions?  
Contact Client Services:  
(724) 325-1776350 Hochberg Road  
Monroeville, PA 15146  
Tel: (724) 325-1776  
Fax: (724) 733-17993583 Investment Blvd.  
Suite 7  
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Tel: (510) 544-8400  
Fax: (510) 567-04882710 North 20th Avenue  
Pasco, WA 99301  
Tel: (509) 545-4989  
Fax: (509) 544-6010



## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
IHSR, LLC  
824 NW 42nd St  
Oklahoma City, OK 73118  
US

Report Date: 12/23/2014  
Sample Receipt Date: 12/16/2014  
RJ Lee Group Job No.: CUH1034822-0  
Authorization/P.O. No.:  
Samples Received: 9  
Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
BF247023	10305772.HT		385	1	803	0.37160	0	0	8.5	$\leq \frac{0.001}{0.001}$	0.000
BY515102	10305773.HT		385	1	788	0.37160	0	0	62	$\leq \frac{0.001}{0.001}$	0.000
CL046848	10305774.HT		385	1	779	0.37160	0	2	66.5	$\frac{0.003}{0.001}$	0.029
BY511349	10305775.HT		385	1	445	0.37160	0	0	39	$\leq \frac{0.001}{0.001}$	0.000
CL046706	10305776.HT		385	1	315	0.37160	0	0	60	$\leq \frac{0.002}{0.002}$	0.000

#### NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1034822-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 12/23/2014

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL046714	10305777.HT		385	1	0	0.37160	0	0	9	N/A N/A	0.000
CL050650	10305778.HT		385	1	715	0.37160	0	0	39	< 0.001 0.001	0.000
BY515160	10305779.HT		385	1	669	0.37160	0	0	47	< 0.001 0.001	0.000
CL046802	10305780.HT		385	1	630	0.37160	0	0	50	< 0.001 0.001	0.000

Authorized Signature:



Matt Sanchez, Director Analytical Services

### NOTES

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## Request for Environmental and IH Laboratory Analytical Services

COPY

Page 1 of 2

Purchase Order No.:		Client Job No.:		Turnaround Request		Standard: <input checked="" type="radio"/> Yes <input type="radio"/> No If 'No,' No. of Business Days:	
Lab Use Only		Project No.:		Client No.:		Sample Purpose: <input type="checkbox"/> Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Date Logged In:		Logged In By:		Drinking Water		System ID #:	
Report Results To		Name: Tom Hall		Sample Only		DOH Source #:	
Company: HSR LLC		Address: 824 NW 42nd St		Chemistry Analysis Key		Multiple Sources #s:	
City, State, Zip: Oklahoma City OK 73118		Phone: 405 209 3507 Fax: ( )		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>		Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract	
Call with Verbal Results: no		Email Results To: thall33@cox.net		Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)			
Fax Results To:							
Send Invoice To		Name: Roger Kepler		Analysis Requested		Pres. Upon Receipt (Y/N)	
Company: Specialty Granular		Email: rkepler@specialtygranular.com		Silica-containing dust mtd. XED		Preservation	
Address: 1455 Old Wayneboro Rd		City, State, Zip: Blue Ridge Summit PA 17214				Matrix	
Phone: 717 794 3318 Fax: 717 794 2248						Container Type	
Special Instructions						pH	
						No. Containers	
Client Sample ID		Sample Description		Sample Date		Sample Time	
						Wipe Area / Air Volume (m <sup>2</sup> )	
						Start Stop	
229431		Resp. Dust		03/11/15		0.528 X	
229448						0.791 X	
229433						0.849 X	
224432						0.851 X	
229451						0.826 X	
229438						0.798 X	
229436						0.705 X	
229437						0.938 X	
229453						0.838 X	
229452						0.797 X	
229443						0.333 X	
Chain of Custody		Relinquished By (Signature): [Signature]		Date: 3/19/15 Time:		Chain of Custody	
		Relinquished By (Print Name): Page Jones		Relinquished To: FedEx		Received By (Signature): [Signature] Date: 03/24/15 Time: 11:00	
		Company Name: HSR		Method of Shipment: FedEx		Received By (Print Name): [Signature] Relinquished To:	
						Company Name: [Signature] Method of Shipment:	
Chain of Custody		Relinquished By (Signature):		Date: Time:		Chain of Custody	
		Relinquished By (Print Name):		Relinquished To:		Received By (Signature): M. Carre Date: 03-24-15 Time: 3:51	
		Company Name:		Method of Shipment:		Received By (Print Name): M. Carre Relinquished To:	
						Company Name: RJ Lee Group Method of Shipment:	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

724.627.7818 Phone  
724.627.2018 Fax

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

412.867.9864 Phone



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

# Request for Environmental and IH Laboratory Analytical Services

CUN1035898-0

COPY

Page 2 of 2

Purchase Order No.:		Client Job No.:	
Lab Use Only	Project No.:		Client No.:
	Date Logged In:		Logged In By:
Report Results To	Name:		
	Company:		
	Address:		
	City, State, Zip:		
	Phone:	Fax: ( )	
	Call with Verbal Results:		
	Email Results To:		
Send Invoice To	Name:		Email:
	Company:		
	Address:		
Special Instructions	City, State, Zip:		Phone: ( ) Fax: ( )
	Phone: ( ) Fax: ( )		
Turnaround Request		Standard: <input checked="" type="radio"/> Yes <input type="radio"/> No If 'No,' No. of Business Days:	
Drinking Water Sample Only		Sample Purpose: <input type="checkbox"/> Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
		System ID #:	
		DOH Source #:	
Chemistry Analysis Key		Multiple Sources #:	
Preservation:		Matrix:	
Unpres H <sub>2</sub> SO <sub>4</sub>		WW=Wastewater	
4°C HCl		GW=Groudwater	
HNO <sub>3</sub> NaOH		S=Soil/Sludge	
Other Na <sub>2</sub> SO <sub>4</sub>		O=Oil	
		E=Extract	
		X=Other	
Container:		P=Plastic	
		G=Glass	
		W=Wipe	
		A=Air (filter or tube)	
Analysis Requested		Pres. Upon Receipt (Y/N)	
		Preservation	
		Matrix	
		Container Type	
		pH	
		No. Containers	
Client Sample ID	Sample Description	Sample Date	Sample Time
		Start	Stop
		Wipe Area	Air Volume
BF246996	Area Sample/315	3/11/15	0.768
CL047717	UMPP (2 <sup>nd</sup> Floor)		0.944
CL047859			1.81
CL047679			1.49
CL047655			1.677
CL047649			1.566
229449			.844
Chain of Custody		Relinquished By (Signature): <i>[Signature]</i> Date: 3/19/15 Time:	
		Relinquished By (Print Name): <i>Felix</i> Relinquished To: <i>Felix</i>	
		Company Name: <i>IHSR</i> Method of Shipment: <i>Fedex</i>	
Chain of Custody		Received By (Signature): <i>[Signature]</i> Date: 03/24/15 Time: 11:00	
		Received By (Print Name): <i>Mary Hecker</i> Relinquished To:	
		Company Name: <i>RJ Lee Group</i> Method of Shipment:	
Chain of Custody		Received By (Signature): <i>M. Carre</i> Date: 03-24-15 Time: 3:51	
		Received By (Print Name): <i>M. Carre</i> Relinquished To:	
		Company Name: <i>RJ Lee Group</i> Method of Shipment:	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

724.325.1776 Phone  
724.733.1799 Fax

724.627.7818 Phone  
724.627.2018 Fax

509.545.4989 Phone  
509.544.6010 Fax

412.867.9864 Phone



## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 Specialty Granules Inc  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 04/01/2015  
 Sample Receipt Date: 03/24/2015  
 RJ Lee Group Job No.: CUH1035898-0  
 Authorization/P.O. No.:  
 Samples Received: 6  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
BF246996	10320148.HT		385	1	968	0.37407	0	0	30	$\leq \frac{0.001}{0.001}$	0.000
CL047717	10320149.HT		385	1	944	0.37407	0	1	39	$\frac{0.001}{0.001}$	0.025
CL047859	10320150.HT		385	1	1810	0.37407	0	0	37	$\leq \frac{0.001}{0.001}$	0.000
CL047679	10320151.HT		385	1	1490	0.36471	0	0	103.5	$\leq \frac{0.001}{0.001}$	0.000
CL047655	10320152.HT		385	1	1677	0.37407	0	2	33	$\frac{0.001}{0.001}$	0.057

#### NOTES

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP #101208-01, NY ELAP #10844) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1035898-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 04/01/2015

Client Sample Number	RJLG Sample Number	Sample Description	-----Fibers (f)-----							Asbestos Concentration	
			Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Asbestos-----		---Non---	<u>Concentration</u> Sensitivity	Ratio (f/F)
							Chry	Amph	NAS		
CL047649	10320153.HT		385	1	1566	0.25249	0	6	96	<u>0.006</u> 0.001	0.059

Authorized Signature:   
Matt Sanchez, Director Analytical Services

### NOTES

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3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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C4H1037234-0

1 of 2

Silica  
containing  
dust masks  
XRD

R3 091112

CUN1037234-0

2 of 2



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 IHSR  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 08/07/2015  
 Sample Receipt Date: 06/29/2015  
 RJ Lee Group Job No.: CUH1037234-0  
 Authorization/P.O. No.:  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry Amph	NAS		(f/cc)	(f/F)
CC277521	10333272.HT	Overloaded – Not Prepped	---	---	---	---	---	---	---		---
CC277534	10333273.HT		385	1	696	0.35533	0	0	67	$\frac{\leq 0.001}{0.001}$	0.000
CC277361	10333274.HT		385	1	706	0.35533	0	1	62	$\frac{0.002}{0.001}$	0.016
CC277523	10333275.HT		385	1	657	0.35533	0	0	34	$\frac{\leq 0.001}{0.001}$	0.000

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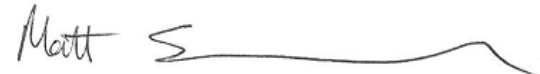
# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1037234-0  
Client Job No/Name:

Client: IHSR  
Report Date: 08/07/2015

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry Amph	NAS			
CC277371	10333276.HT		385	1	728	0.35533	0	1	77	$\frac{0.001}{0.001}$	0.013
CC277419	10333277.HT		385	1	820	0.35533	0	0	19	$\frac{< 0.001}{0.001}$	0.000
CC277546	10333278.HT		385	1	798	0.35533	0	1	22.5	$\frac{0.001}{0.001}$	0.043
CC277097	10333279.HT		385	1	792	0.35533	0	1	7.5	$\frac{0.001}{0.001}$	0.118
CC277396	10333280.HT		385	1	0	0.35533	0	0	0	$\frac{N/A}{N/A}$	0.000

  
 Authorized Signature: \_\_\_\_\_  
 Matt Sanchez, Director Analytical Services

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## Request for Environmental and IH Laboratory Analytical Services

Page 1 of 2

Purchase Order No.:		Client Job No.:		Turnaround Request		Standard: <input checked="" type="radio"/> Yes <input type="radio"/> No If 'No,' No. of Business Days:	
Lab Use Only		Project No.:		Client No.:		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Date Logged In:		Logged In By:		Drinking Water Sample Only		System ID #:	
Name: Tom Hall		Company: HSR		DOH Source #:		Multiple Sources #s:	
Address: 124 NW 42nd St		City, State, Zip: Oklahoma City OK 73112		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>		Preservation:	
Phone: 405-209-3507 Fax: ( )		Call with Verbal Results: no		Chemistry Analysis Key		Matrix:	
Email Results To: thall33@cox.net		Fax Results To:		Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>		WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract	
Name: Asher Sweet		Company: SGI		Email: asweet@specialtygranules.com		SW=Surface Water DW=Drinking Water O=Oil X=Other	
Address: 1455 Old Waynesboro Rd		City, State, Zip: Blue Ridge Summit PA 17214		Analysis Requested		Container:	
Phone: 717-794-2184 Fax: ( )		Special Instructions		Pres. Upon Receipt (Y/N)		Preservation	
Client Sample ID		Sample Description		Sample Date		Sample Time	
				Start		Stop	
				Wipe Area / Air Volume			
229408				10/1/15		905	
229410						852	
229411						782	
226642						796	
229417						805	
229430						833	
229405						630	
229444						666	
229421						704	
229406						676	
229412						732	
Chain of Custody		Relinquished By (Signature): [Signature]		Date: 10/6/15 Time:		Received By (Signature): [Signature]	
		Relinquished By (Print Name): [Signature]		Relinquished To:		Received By (Print Name): [Signature]	
		Company Name: HSR		Method of Shipment: FedEx		Company Name: RSC	
Chain of Custody		Relinquished By (Signature):		Date:		Received By (Signature): M. Carre	
		Relinquished By (Print Name):		Time:		Date: 10-12-15 Time: 4:40 PM	
		Company Name:		Method of Shipment:		Received By (Print Name): M. Carre	
						Company Name: RSC Group	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

 **RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

# Request for Environmental and IH Laboratory Analytical Services

Page 2 of 2

[illegible]

**Pennsylvania - HQ**  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

**Washington**  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 IHSR, LLC  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 10/23/2015  
 Sample Receipt Date: 10/09/2015  
 RJ Lee Group Job No.: CUH1038532-0  
 Authorization/P.O. No.:  
 Samples Received: 8  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL930907	10344590.HT		385	1		0.37504	0	0	47.5	N/A N/A	0.000
CL930873	10344591.HT		385	1		0.37504	0	0	75	N/A N/A	0.000
CL930876	10344592.HT		385	1		0.37504	0	0	46.5	N/A N/A	0.000
CL277562	10344593.HT		385	1		0.37504	0	0	37	N/A N/A	0.000
CL930912	10344594.HT		385	1		0.37504	0	0	18	N/A N/A	0.000

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1038532-0  
Client Job No/Name:

Client: IHSR, LLC  
Report Date: 10/23/2015

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL930894	10344595.HT		385	1		0.37504	0	0	32	N/A N/A	0.000
CL930886	10344596.HT		385	1		0.37504	0	0	38.5	N/A N/A	0.000
CL931643	10344597.HT		385	1	0	0.37504	0	0	0	N/A N/A	0.000

Authorized Signature:   
Matt Sanchez

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CUH1639453.0

## Request for Environmental and IH Laboratory Analytical Services

Page 1 of 2

Purchase Order No.:		Client Job No.:		Turnaround Request		Standard <input checked="" type="radio"/> Yes <input type="radio"/> No If 'No,' No. of Business Days:	
Lab Use Only		Project No.:		Client No.:		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Date Logged In:		Logged In By:		Drinking Water		System ID #:	
Report Results To		Name: Tom Hall		DOH Source #:		Multiple Sources #s:	
Company: IHSR LLC		Address: 824 NW 42nd St		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>			
City, State, Zip: OKC OK 73118		Phone: 405 209 3507 Fax: ( )		Chemistry Analysis Key		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>	
Call with Verbal Results: NO		Email Results To: thall133@cox.net		Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract		Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
Fax Results To:		Name: Asher Sweet		Company: SGI		Email: asweet@specialtygranular.com	
Send Invoice To		Address: 1455 Old Waynesboro Rd		City, State, Zip: Blue Ridge Summit PA 17214		Phone: 717 794 8323 Fax: ( )	
Special Instructions				Analysis Requested			
Client Sample ID		Sample Description		Sample Date		Sample Time	
						Start Stop	
						Wipe Area / Air Volume	
226643				12/10/15		1264	
229416						1235	
229426						829	
229407						833	
234104						1269	
234103						623	
234107						815	
234105						283	
229429		blank				---	
Chain of Custody		Relinquished By (Signature): [Signature]		Date: 12/17/15 Time:		Chain of Custody	
		Relinquished By (Print Name): [Name]		Relinquished To: [Name]		Received By (Signature): [Signature]	
		Company Name: IHSR LLC		Method of Shipment: FedEx		Received By (Print Name): [Name]	
						Company Name: [Name]	
Chain of Custody		Relinquished By (Signature):		Date:		Chain of Custody	
		Relinquished By (Print Name):		Time:		Received By (Signature): [Signature]	
		Company Name:				Received By (Print Name): [Name]	
						Company Name: RJ Lee Group	

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830  
412.867.9864 Phone

724.325.1776 Phone  
724.733.1799 Fax

724.627.7818 Phone  
724.627.2018 Fax

 **RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

R2-091112



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 IHSR LLC  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 12/30/2015  
 Sample Receipt Date: 12/21/2015  
 RJ Lee Group Job No.: CUH1039453-0  
 Authorization/P.O. No.:  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL047639	10353834.HT		385	1	779	0.38888	0	0	19.5	$\leq \frac{0.001}{0.001}$	0.000
CL047656	10353835.HT		385	1	814	0.38888	0	0	12.5	$\leq \frac{0.001}{0.001}$	0.000
CL047834	10353836.HT		385	1	761	0.38888	0	0	19	$\leq \frac{0.001}{0.001}$	0.000
CL047690	10353837.HT		385	1	762	0.38888	0	0	20	$\leq \frac{0.001}{0.001}$	0.000
CL046844	10353838.HT		385	1	245	0.38888	0	1	15.5	$\frac{0.004}{0.002}$	0.061

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1039453-0  
Client Job No/Name:

Client: IHSR LLC  
Report Date: 12/30/2015

Client Sample Number	RJLG Sample Number	Sample Description	-----Fibers (f)-----							Asbestos Concentration	
			Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
CL046750	10353839.HT		385	1	458	0.38888	0	0	18.5	$\leq 0.001$ 0.001	0.000
CL047650	10353840.HT		385	1	0	0.38888	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

Monica McGrath

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# Request for Environmental and IH Laboratory Analytical Services

CO# 1040401-0

**COPY**

Page 1 of 2

Purchase Order No.:		Client Job No.:									
Lab Use Only	Project No.:	Client No.:									
	Date Logged In:	Logged In By:									
Report Results To	Name: Tom Hall										
	Company: IHSR										
	Address: 824 NW 42nd St										
	City, State, Zip: Oklahoma City OK 73118										
	Phone: 4052093507 Fax: ( )										
	Call with Verbal Results: no										
	Email Results To: thall33@cox.net										
Fax Results To:											
Send Invoice To	Name: Asher Sweet										
	Company: S&I Email: asweet@specialtygranules.com										
	Address: 1455 Old Waynesboro Rd										
	City, State, Zip: Blue Ridge Summit PA 17214										
Phone: 7175040134 Fax: ( )											
Special Instructions											
Client Sample ID	Sample Description	Sample Date	Sample Time	Wipe Area / Air Volume	Analysis Requested	Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers
			Start								
229413		3/9/16			793L	X	X				
203311		}			426L	X	X				
232439					773	X	X				
203324					747	X	X				
203323					748	X	X				
234101		3/11/16			756	X	X				
232435		}			759	X	X				
232440					761	X	X				
234114					655	X	X				
203325					798	X	X				
234106					800	X	X				
Chain of Custody	Relinquished By (Signature): [Signature]		Date: 3/15/16 Time:		Chain of Custody	Received By (Signature): [Signature]		Date: 03/18/16 Time: 10:00 AM			
	Relinquished By (Print Name): Paigen Jones		Relinquished To: FedEx			Received By (Print Name): [Signature]		Relinquished To:			
	Company Name: IHSR		Method of Shipment: FedEx			Company Name: RTLL		Method of Shipment:			
Chain of Custody	Relinquished By (Signature):		Date: Time:		Chain of Custody	Received By (Signature): M. Carac		Date: 03-18-16 Time: 1:46			
	Relinquished By (Print Name):		Relinquished To:			Received By (Print Name): M. Carac		Relinquished To:			
	Company Name:		Method of Shipment:			Company Name: RJ Lee Group		Method of Shipment:			

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350 Hochberg Road  
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724.325.1776 Phone  
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Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

724.627.7818 Phone  
724.627.2018 Fax

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

412.867.9864 Phone

**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



# Request for Environmental and IH Laboratory Analytical Services

CUH1040401-0

**COPY** Page 2 of 2

Lab Use Only	Purchase Order No.:		Client Job No.:		Turnaround Request	Standard: Yes No If 'No,' No. of Business Days:	
	Project No.:		Client No.:			Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Report Results To	Date Logged In:		Logged In By:		Drinking Water Sample Only	System ID #:	
	Name:					DOH Source #:	
	Company:					Multiple Sources #s:	
	Address:				Chemistry Analysis Key	Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>	
	City, State, Zip:					Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HNO <sub>3</sub> Other	
	Phone: ( )		Fax: ( )			Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract	
	Call with Verbal Results:					Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
	Email Results To:						
Fax Results To:							
Name:							
Send Invoice To	Company:		Email:		Analysis Requested		
	Address:				Pres. Upon Receipt (Y/N)		
	City, State, Zip:				Preservation		
Special Instructions	Phone: ( )		Fax: ( )		Matrix		
					Container Type		
						pH	
						No. Containers	

Client Sample ID	Sample Description	Sample Date	Sample Time		Wipe Area / Air Volume	TEMP	Pres.	Preservation	Matrix	Container Type	pH	No. Containers
			Start	Stop								
234108	Blank	3/10/16			644	X						
203315					—	X						
CL047742		3/9/16			721							
CL047766					731							
CL047671					690							
CL047646	Blank				722							
CL930906		3/10/16			780							
CL931819					767							
CL930885					—							

Chain of Custody	Relinquished By (Signature):	Paige Jones	Date:	3/19/16	Time:		Chain of Custody	Received By (Signature):	J. Lee	Date:	03/18/16	Time:	1:46
	Relinquished By (Print Name):	Paige Jones	Relinquished To:	Felix				Received By (Print Name):	J. Lee	Relinquished To:			
	Company Name:	ILHSR	Method of Shipment:	Felix				Company Name:	RJ Lee Group	Method of Shipment:			
Chain of Custody	Relinquished By (Signature):		Date:		Time:		Chain of Custody	Received By (Signature):	M. Carac	Date:	03-18-16	Time:	1:46
	Relinquished By (Print Name):		Relinquished To:					Received By (Print Name):	M. Carac	Relinquished To:			
	Company Name:		Method of Shipment:					Company Name:	RJ Lee Group	Method of Shipment:			

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Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

412.867.9864 Phone

**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

#3,091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 Specialty Granules Inc  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 03/25/2016  
 Sample Receipt Date: 03/18/2016  
 RJ Lee Group Job No.: CUH1040401-0  
 Authorization/P.O. No.:  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL047742	10361164.HT		385	1	721	0.36348	0	0	28	$\leq \frac{0.001}{0.001}$	0.000
CL047766	10361165.HT		385	1	731	0.36348	0	0	30.5	$\leq \frac{0.001}{0.001}$	0.000
CL047671	10361166.HT		385	1	690	0.36348	0	0	29.5	$\leq \frac{0.001}{0.001}$	0.000
CL047646	10361167.HT		385	1	722	0.36348	0	0	19.5	$\leq \frac{0.001}{0.001}$	0.000
CL930906	10361168.HT		385	1	780	0.36348	0	0	80.5	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1040401-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 03/25/2016

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL931819	10361169.HT		385	1	767	0.36348	0	0	8	< 0.001 0.001	0.000
CL930885	10361170.HT		385	1	0	0.36348	0	0	0	N/A N/A	0.000

Authorized Signature:



Monica McGrath

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CUH 1042885-1 (TEM)

CUH 1042885 (Silica)

## Request for Environmental and IH Laboratory Analytical Services

Page 1 of 2

Purchase Order No.:		Client Job No.:		Turnaround Request		Standard <input checked="" type="radio"/> Yes <input type="radio"/> No If 'No,' No. of Business Days:	
Lab Use Only		Project No.:		Client No.:		Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):	
Date Logged In:		Logged In By:		Drinking Water		System ID #:	
Name: Tom Hall		Company: HSR		Sample Only		DOH Source #:	
Address: 824 NW 42nd St		City, State, Zip: OKC OK 73118		Multiple Sources #s:		Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/> IF V	
Phone: 405 289 3507 Fax: ( )		Call with Verbal Results: no		Chemistry Analysis Key		Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> NaOH Other Na <sub>2</sub> SO <sub>4</sub>	
Email Results To: thall33@cox.net		Fax Results To:		Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract		SW=Surface Water DW=Drinking Water O=Oil X=Other	
Name: Asher Sweet		Company: SGI		Email: asweet@specialtygranular.com		Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)	
Address: 1455 Old Waverboro Rd		City, State, Zip: Blue Ridge Summit, PA 17214		Phone: (717) 794-3323 Fax: ( )		Analysis Requested	
Special Instructions				TEM Silica containing Dust Mass XRD		Pres. Upon Receipt (Y/N)	
Client Sample ID		Sample Description		Sample Date		Sample Time	
				Start		Stop	
				Wipe Area / Air Volume			
CL930908				9/29/16		X	
CL930883						X	
CL930900						X	
CL931299				9/30/16		X	
CL930879						X	
CL931768		blank				X	
247850				9/29/16		808L X X X	
247875						744L X X X	
247870						755 X X X	
247865						849 X X X	
247866						716 X X X	
Chain of Custody		Relinquished By (Signature): [Signature]		Date: 10/3/16 Time:		Chain of Custody	
		Relinquished By (Print Name): Paige Jones		Relinquished To: [Signature]		Received By (Signature): [Signature] Date: 10/6/16 Time: 9:25	
		Company Name: HSR		Method of Shipment: FedEx		Received By (Print Name): Rachel Griffin Relinquished To:	
						Company Name: Method of Shipment:	
Chain of Custody		Relinquished By (Signature):		Date: Time:		Chain of Custody	
		Relinquished By (Print Name):		Relinquished To:		Received By (Signature): Lisa Hall Date: 10/6/16 Time: 10:00AM	
		Company Name:		Method of Shipment:		Received By (Print Name): Lisa Hall Relinquished To:	
						Company Name: RJL Company Method of Shipment:	

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350 Hochberg Road  
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 **RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

R3\_091112







## Final Laboratory Report

### TEM Air Analysis

Attention: Tom Hall  
 IHSR, LLC  
 824 NW 42nd St  
 Oklahoma City, OK 73118  
 US

Report Date: 10/19/2016  
 Sample Receipt Date: 10/06/2016  
 RJ Lee Group Job No.: CUH1042885-1  
 Authorization/P.O. No.: CH47474  
 Samples Received: 6  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
CL930908	10380257.HT		385	1		0.32302	0	2	30.5	N/A N/A	0.062
CL930900	10380259.HT		385	1		0.32302	0	0	12.5	N/A N/A	0.000
CL931299	10380260.HT		385	1		0.32302	0	3	17.5	N/A N/A	0.146
CL930879	10380261.HT		385	1		0.32302	0	0	12	N/A N/A	0.000
CL931768	10380262.HT		385	1		0.32302	0	0	0	N/A N/A	0.000
CL930883	10380258	Overloaded-Not Prepped									

#### NOTES

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- Samples will be held for 90 days and then disposed of per Federal regulations.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1042885-1  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: IHSR, LLC  
Report Date: 10/19/2016

Authorized Signature: \_\_\_\_\_

Jon Swope



### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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May 25, 2017

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On April 26 and 27, 2017, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On April 26 and 27, 2017, C&IH employee Andrew Duane collected a total of 12 fibrous aerosol samples, including 10 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 4%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the respirable dust samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately six to seven hours, and not for the duration of the current work shift, in an effort to prevent the overloading of sample cassettes. C&IH field data sheets can be found in Appendix B.

All results are reported in fibers per cubic centimeter of air (f/cc). The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-042617-07	5 ½ Crusher	O/L	0.1
SGC-042617-08	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042617-09	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042617-10	330 & 310 Crusher	O/L	0.1
SGC-042617-11	979 Belt, Floor 2	O/L	0.1
SGC-042717-07	5 ½ Crusher	O/L	0.1
SGC-042717-08	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042717-09	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042717-10	330 & 310 Crusher	O/L	0.1
SGC-042717-11	979 Belt, Floor 2	<0.001	0.1

O/L – sample was overloaded and could not be analyzed.

Five of the ten area samples were overloaded and could not be analyzed by the laboratory. The remaining five samples were reported as below the limit of detection, and well below the MSHA PEL.

C&IH recommends further limiting the volume collected for each sample in the future to avoid overloading. Specifically, multiple samples should be collected for shorter durations in order to monitor the entire work shift.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Ave  
 Wheat Ridge, CO 17214  
 US

Report Date: 05/08/2017  
 Sample Receipt Date: 05/01/2017  
 RJ Lee Group Job No.: CUH1045220-0  
 Authorization/P.O. No.: CH56809  
 Samples Received: 12  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-042617-07	10406908	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-042617-08	10406909.HT		385	1	800	0.35550	0	0	8	$\frac{\leq 0.001}{0.001}$	0.000
SGC-042617-09	10406910.HT		385	1	800	0.35550	0	0	9	$\frac{\leq 0.001}{0.001}$	0.000
SGC-042617-10	10406911	Unable to Prep Sample	---	---	---	---	---	---	---	---	---

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

#### DISCLAIMER

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1045220-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 05\08\2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-042617-11	10406912	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-042617-12	10406913.HT		385	1	796	0.35550	0	0	0.5	$\frac{< 0.001}{0.001}$	0.000
SGC-042717-07	10406914	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-042717-08	10406915.HT		385	1	741	0.35550	0	0	13	$\frac{< 0.001}{0.001}$	0.000
SGC-042717-09	10406916.HT		385	1	738	0.35550	0	0	6	$\frac{< 0.001}{0.001}$	0.000
SGC-042717-10	10406917	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-042717-11	10406918.HT		385	1	736	0.35550	0	0	2	$\frac{< 0.001}{0.001}$	0.000
SGC-042717-12	10406919.HT		385	1	742	0.35550	0	0	0	$\frac{< 0.001}{0.001}$	0.000

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.



# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1045220-0

Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 05\08\2017

Authorized Signature: \_\_\_\_\_

Bryan Bandli

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

**APPENDIX B:**  
**Field Data Sheets**

[illegible]



July 28, 2017

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On June 19 and 20, 2017, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On June 19 and 20, 2017, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 4%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the respirable dust samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately three to eight hours. Back-to-back split-shift samples were collected from the crusher areas in an effort to prevent the overloading of sample cassettes. C&IH field data sheets can be found in Appendix B.

All results are reported in fibers per cubic centimeter of air (f/cc). The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-061917-07	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-061917-08	Old Gyro Building, Floor 1	O/L	0.1
SGC-061917-09	Old Gyro Building, Floor 2	<0.001	0.1
SGC-061917-10	330 & 310 Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-061917-11	979 Belt, Floor 2	O/L	0.1
SGC-061917-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-061917-13	330 & 310 Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-062017-07	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-062017-08	Old Gyro Building, Floor 1	<0.001	0.1
SGC-062017-09	Old Gyro Building, Floor 2	<0.001	0.1
SGC-062017-10	330 & 310 Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-062017-11	979 Belt, Floor 2	O/L	0.1
SGC-062017-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-062017-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – sample was overloaded and could not be analyzed.

Ten of the 14 area samples were overloaded and could not be analyzed by the laboratory, including three of the four split-shift samples. The remaining four samples were reported as below the limit of detection, and well below the MSHA PEL.

C&IH recommends further limiting the volume collected for each sample in the future to avoid overloading. Specifically, based on recent sampling data, samples in the crusher areas should be limited to no more than two hours, and samples in the other locations should be limited to less than six hours.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:

A handwritten signature in black ink, appearing to read "Andrew D. Duane".

Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:

A handwritten signature in black ink, appearing to read "Eric J. Rasmuson".

Eric J. Rasmuson, MS, CIH  
President

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Avenue  
 Wheat Ridge, CO 80033  
 US

Report Date: 06/29/2017  
 Sample Receipt Date: 06/23/2017  
 RJ Lee Group Job No.: ATH1045852-0  
 Authorization/P.O. No.: CH56809  
 Samples Received: 16  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u>	Ratio
							Chry	Amph	NAS	<u>Sensitivity</u> (f/cc)	(f/F)
SGC-061917-07	10410103	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-061917-08	10410104	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-061917-09	10410105.HT		385	1	904	0.35218	0	0	12	$\leq \frac{0.001}{0.001}$	0.000
SGC-061917-10	10410106	Unable to Prep Sample	---	---	---	---	---	---	---	---	---

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.



# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1045852-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 06\29\2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-061917-11	10410107	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-061917-12	10410108	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-061917-13	10410109	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-061917-14	10410110.HT		385	1	892	0.35218	0	0	1	$\leq \frac{0.001}{0.001}$	0.000
SGC-062017-07	10410111	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-062017-08	10410112.HT		385	1	922	0.35218	0	0	18	$\leq \frac{0.001}{0.001}$	0.000
SGC-062017-09	10410113.HT		385	1	938	0.35218	0	0	14	$\leq \frac{0.001}{0.001}$	0.000
SGC-062017-10	10410114	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-062017-11	10410115	Unable to Prep Sample	---	---	---	---	---	---	---	---	---
SGC-062017-12	10410116	Unable to Prep Sample	---	---	---	---	---	---	---	---	---

### NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1045852-0

Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 06\29\2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-062017-13	10410117.HT		385	1	338	0.35218	0	0	8	$\frac{< 0.002}{0.002}$	0.000
SGC-062017-14	10410118.HT		385	1	917	0.35218	0	0	1	$\frac{< 0.001}{0.001}$	0.000



Authorized Signature: \_\_\_\_\_

Monica McGrath

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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**APPENDIX B:**  
**Field Data Sheets**

[illegible]



September 12, 2017

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On August 15 and 16 2017, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On August 15 and 16, 2017, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-081517-06	Old Gyro Building, Floor 1	<0.001	0.1
SGC-081517-07	Old Gyro Building, Floor 2	<0.001	0.1
SGC-081517-08	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-081517-09	979 Belt, Floor 2	<0.001	0.1
SGC-081517-10	5 ½ Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-081517-11	5 ½ Crusher, 2 <sup>nd</sup> half	<0.003	0.1
SGC-081517-12	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.003	0.1
SGC-081617-06	5 ½ Crusher, 1 <sup>st</sup> half	<0.003	0.1
SGC-081617-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-081617-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-081617-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.003	0.1
SGC-081617-10	979 Belt, Floor 2	<0.001	0.1
SGC-081617-11	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-081617-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1

All sample results were reported as below the limit of detection, and were well below the MSHA PEL.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Results**



## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
Specialty Granules Inc  
10201 W 43rd Ave  
Wheat Ridge, CO 17214  
US

Report Date: 08/28/2017  
Sample Receipt Date: 08/21/2017  
RJ Lee Group Job No.: ATH1046507-0  
Authorization/P.O. No.: CH56809  
Samples Received: 16  
Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-081517-06	10413611.HT		385	1	512	0.34400	0	0	18	$\leq \frac{0.001}{0.001}$	0.000
SGC-081517-07	10413612.HT		385	1	507	0.34400	0	0	12	$\leq \frac{0.001}{0.001}$	0.000
SGC-081517-08	10413613.HT		385	1	314	0.34400	0	0	15	$\leq \frac{0.002}{0.002}$	0.000
SGC-081517-09	10413614.HT		385	1	493	0.34400	0	0	9	$\leq \frac{0.001}{0.001}$	0.000
SGC-081517-10	10413615.HT		385	1	241	0.34400	0	0	6	$\leq \frac{0.002}{0.002}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

#### DISCLAIMER

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# RJ Lee Group, Inc.

# Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1046507-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 08/28/2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-081517-11	10413616.HT		385	1	196	0.34400	0	0	14	$\frac{< 0.003}{0.003}$	0.000
SGC-081517-12	10413617.HT		385	1	178	0.34400	0	0	8.5	$\frac{< 0.003}{0.003}$	0.000
SGC-081517-13	10413618.HT		385	1	505	0.34400	0	0	0	$\frac{< 0.001}{0.001}$	0.000
SGC-081617-06	10413619.HT		385	1	222	0.34400	0	0	0	$\frac{< 0.003}{0.003}$	0.000
SGC-081617-07	10413620.HT		385	1	496	0.34400	0	0	2	$\frac{< 0.001}{0.001}$	0.000
SGC-081617-08	10413621.HT		385	1	490	0.34400	0	0	6	$\frac{< 0.001}{0.001}$	0.000
SGC-081617-09	10413622.HT		385	1	194	0.34400	0	0	11.5	$\frac{< 0.003}{0.003}$	0.000
SGC-081617-10	10413623.HT		385	1	477	0.34400	0	0	8.5	$\frac{< 0.001}{0.001}$	0.000
SGC-081617-11	10413624.HT		385	1	272	0.34400	0	0	5	$\frac{< 0.002}{0.002}$	0.000
SGC-081617-12	10413625.HT		385	1	249	0.34400	0	0	0	$\frac{< 0.002}{0.002}$	0.000
SGC-081617-13	10413626.HT		385	1	223	0.34400	0	0	0	$\frac{< 0.003}{0.003}$	0.000

## NOTES

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## RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1046507-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 08\28\2017



Authorized Signature: \_\_\_\_\_

Monica McGrath

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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**APPENDIX B:**  
**Field Data Sheets**

Project:	Specialty Granules			Location:	Charmian Q2	Billing To:	Charmian														
Project Manager:	ADD			Surveyor(s):	ADD	Laboratory PO #:															
Date	Equipment #	Media Type	Media #	Employee Name	Job Title	Analyte	Sample ID	Pre	Post	Start	Stop	RPD	Minutes	Pump Min	Shift Length	Avg Flow (l/m)	Liters	3 Sig Figs	Lab		
8/15/2017	CIH 34	TEM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -081517	-06	2.00	2.03	3:30:00 PM	7:44:00 PM	1%	254	254	8	2.02	511.81	512	RJLG	
8/15/2017	CIH 35	TEM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -081517	-07	2.01	2.01	3:33:00 PM	7:45:00 PM	0%	252	252	8	2.01	506.52	507	RJLG	
8/15/2017	CIH 36	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -081517	-08	2.00	1.98	3:40:00 PM	6:18:00 PM	1%	158	247	8	1.99	314.42	314	RJLG	
8/15/2017	CIH 37	TEM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -081517	-09	2.01	2.00	3:43:00 PM	7:49:00 PM	0%	246	246	8	2.01	493.23	493	RJLG	
8/15/2017	CIH 38	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -081517	-10	2.00	1.95	3:52:00 PM	5:54:00 PM	3%	122	221	8	1.98	240.95	241	RJLG	
8/15/2017	CIH 38	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -081517	-11	2.00	1.95	5:54:00 PM	7:33:00 PM	3%	99	221	8	1.98	195.525	196	RJLG	
8/15/2017	CIH 36	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -081517	-12	2.01	1.98	6:18:00 PM	7:47:00 PM	2%	89	247	8	2.00	177.555	178	RJLG	
8/15/2017	BLANK	TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -081517	-13	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	
8/16/2017	CIH 34	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -081617	-06	1.97	1.99	7:37:00 AM	9:29:00 AM	1%	112	237	8	1.98	221.76	222	RJLG	
8/16/2017	CIH 35	TEM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -081617	-07	1.98	2.00	7:45:00 AM	11:54:00 AM	1%	249	249	8	1.99	495.51	496	RJLG	
8/16/2017	CIH 36	TEM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -081617	-08	1.97	2.00	7:46:00 AM	11:53:00 AM	2%	247	247	8	1.99	490.295	490	RJLG	
8/16/2017	CIH 38	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -081617	-09	1.97	1.91	7:56:00 AM	9:36:00 AM	3%	100	240	8	1.94	194	194	RJLG	
8/16/2017	CIH 37	TEM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -081617	-10	1.96	1.98	7:58:00 AM	12:00:00 PM	1%	242	241	8	1.97	476.74	477	RJLG	
8/16/2017	CIH 38	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -081617	-11	1.97	1.91	9:36:00 AM	11:56:00 AM	3%	140	240	8	1.94	271.6	272	RJLG	
8/16/2017	CIH 34	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -081617	-12	1.97	1.99	9:29:00 AM	11:35:00 AM	1%	126	237	8	1.98	249.48	249	RJLG	
8/16/2017	BLANK	TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -081617	-13	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	



December 13, 2017

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On November 7 and 8, 2017, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On November 7 and 8, 2017, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-110717-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-110717-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-110717-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-110717-10	979 Belt, Floor 2	<0.001	0.1
SGC-110717-11	5 ½ Crusher, 1 <sup>st</sup> half	<0.003	0.1
SGC-110717-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-110717-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-110817-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-110817-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-110817-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-110817-10	979 Belt, Floor 2	O/L	0.1
SGC-110817-11	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-110817-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-110817-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – Sample overloaded with background debris and could not be read

All samples with results were reported as below the limit of detection, and were well below the MSHA PEL.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:

A handwritten signature in black ink, appearing to read "Andrew D. Duane".

Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:

A handwritten signature in black ink, appearing to read "Eric J. Rasmuson".

Eric J. Rasmuson, MS, CIH  
President



**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Ave  
 Wheat Ridge 17214

Report Date: 11/28/2017  
 Sample Receipt Date: 11/17/2017  
 RJ Lee Group Job No.: CUH1047691-0  
 Authorization/P.O. No.:  
 Samples Received: 16  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u>	Ratio
							Chry	Amph	NAS	<u>Sensitivity</u> (f/cc)	(f/F)
SGC-110717-07	10419895.HT		385	1	485	0.34826	0	0	4	$\frac{\leq 0.001}{0.001}$	0.000
SGC-110717-08	10419896.HT		385	1	484	0.34826	0	0	7	$\frac{\leq 0.001}{0.001}$	0.000
SGC-110717-09	10419897.HT		385	1	277	0.34826	0	0	1	$\frac{\leq 0.002}{0.002}$	0.000
SGC-110717-10	10419898.HT		385	1	517	0.34826	0	0	1	$\frac{\leq 0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1047691-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 11/28/2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							----Asbestos----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-110717-11	10419899.HT		385	1	217	0.34826	0	0	4	$\frac{< 0.003}{0.003}$	0.000
SGC-110717-12	10419900.HT		385	1	239	0.34826	0	0	11.5	$\frac{< 0.002}{0.002}$	0.000
SGC-110717-13	10419901.HT		385	1	233	0.34826	0	0	15	$\frac{< 0.002}{0.002}$	0.000
SGC-110717-14	10419902.HT		385	1	242	0.34826	0	0	0	$\frac{< 0.002}{0.002}$	0.000
SGC-110817-07	10419903.HT		385	1	522	0.34826	0	0	6.5	$\frac{< 0.001}{0.001}$	0.000
SGC-110817-08	10419904.HT		385	1	515	0.34826	0	0	12.5	$\frac{< 0.001}{0.001}$	0.000
SGC-110817-09	10419905.HT		385	1	260	0.34826	0	0	2.5	$\frac{< 0.002}{0.002}$	0.000
SGC-110817-10	10419906	Unable to Prep	---	---	---	---	---	---	---	---	---
SGC-110817-11	10419907	Unable to Prep	---	---	---	---	---	---	---	---	---
SGC-110817-12	10419908	Unable to Prep	---	---	---	---	---	---	---	---	---

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1047691-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 11\28\2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-110817-13	10419909.HT		385	1	284	0.34826	0	0	10	$\frac{< 0.002}{0.002}$	0.000
SGC-110817-14	10419910.HT		385	1	532	0.34826	0	0	0	$\frac{< 0.001}{0.001}$	0.000

Authorized Signature:

Bryan Bandli

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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**APPENDIX B:**  
**Field Data Sheets**

Project:	Specialty Granules				Location:	Charmian Q4		Billing To:	Charmian											
Project Manager:	ADD				Surveyor(s):	ADD		Laboratory PO #:												
Date	Equipment #	Media Type	Media #	Employee Name	Job Title	Analyte	Sample ID	Pre	Post	Start	Stop	RPD	Minutes	Pump Min	Shift Length	Avg Flow (l/m)	Liters	3 Sig Figs	Lab	Comments
11/7/2017	CIH 17	TEM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -110717-07	1.97	1.96	3:27:00 PM	7:34:00 PM	1%	247	246	8	1.97	485.355	485	RJLG	
11/7/2017	CIH 19	TEM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -110717-08	1.96	1.93	3:26:00 PM	7:35:00 PM	2%	249	248	8	1.95	484.305	484	RJLG	
11/7/2017	CIH 22	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -110717-09	1.99	2.02	3:24:00 PM	5:42:00 PM	1%	138	138	8	2.01	276.69	277	RJLG	
11/7/2017	CIH 23	TEM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -110717-10	1.98	1.95	3:21:00 PM	7:44:00 PM	2%	263	262	8	1.97	516.795	517	RJLG	
11/7/2017	CIH 25	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -110717-11	2.04	1.97	3:37:00 PM	5:25:00 PM	3%	108	108	8	2.01	216.54	217	RJLG	
11/7/2017	CIH 25	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -110717-12	2.04	1.97	5:25:00 PM	7:24:00 PM	3%	119	120	8	2.01	238.595	239	RJLG	
11/7/2017	CIH 22	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -110717-13	1.99	2.02	5:42:00 PM	7:38:00 PM	1%	116	116	8	2.01	232.58	233	RJLG	
11/7/2017	---	TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -110717-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	
11/7/17 - Steady rainfall until ~7:30 pm																				
11/8/2017	CIH 17	TEM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -110817-07	1.96	1.98	7:19:00 AM	11:44:00 AM	1%	265	264	8	1.97	522.05	522	RJLG	
11/8/2017	CIH 19	TEM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -110817-08	1.93	1.94	7:20:00 AM	11:46:00 AM	1%	266	266	8	1.94	514.71	515	RJLG	
11/8/2017	CIH 22	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -110817-09	2.02	2.01	7:22:00 AM	9:31:00 AM	0%	129	129	8	2.02	259.935	260	RJLG	
11/8/2017	CIH 23	TEM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -110817-10	1.95	1.99	7:17:00 AM	11:55:00 AM	2%	278	278	8	1.97	547.66	548	RJLG	
11/8/2017	CIH 25	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -110817-11	1.97	1.97	7:30:00 AM	9:42:00 AM	0%	132	131	8	1.97	260.04	260	RJLG	
11/8/2017	CIH 25	TEM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -110817-12	1.97	1.97	9:42:00 AM	11:30:00 AM	0%	108	109	8	1.97	212.76	213	RJLG	
11/8/2017	CIH 22	TEM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -110817-13	2.02	2.01	9:31:00 AM	11:52:00 AM	0%	141	141	8	2.02	284.115	284	RJLG	
11/8/2017		TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -110817-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	



December 13, 2017

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On November 7 and 8, 2017, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On November 7 and 8, 2017, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-110717-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-110717-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-110717-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-110717-10	979 Belt, Floor 2	<0.001	0.1
SGC-110717-11	5 ½ Crusher, 1 <sup>st</sup> half	<0.003	0.1
SGC-110717-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-110717-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-110817-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-110817-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-110817-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-110817-10	979 Belt, Floor 2	O/L	0.1
SGC-110817-11	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-110817-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-110817-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – Sample overloaded with background debris and could not be read

All samples with results were reported as below the limit of detection, and were well below the MSHA PEL.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.



If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:

A handwritten signature in black ink, appearing to read "Andrew D. Duane".

Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:

A handwritten signature in black ink, appearing to read "Eric J. Rasmuson".

Eric J. Rasmuson, MS, CIH  
President

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Ave  
 Wheat Ridge 17214

Report Date: 11/28/2017  
 Sample Receipt Date: 11/17/2017  
 RJ Lee Group Job No.: CUH1047691-0  
 Authorization/P.O. No.:  
 Samples Received: 16  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-110717-07	10419895.HT		385	1	485	0.34826	0	0	4	$\frac{\leq 0.001}{0.001}$	0.000
SGC-110717-08	10419896.HT		385	1	484	0.34826	0	0	7	$\frac{\leq 0.001}{0.001}$	0.000
SGC-110717-09	10419897.HT		385	1	277	0.34826	0	0	1	$\frac{\leq 0.002}{0.002}$	0.000
SGC-110717-10	10419898.HT		385	1	517	0.34826	0	0	1	$\frac{\leq 0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1047691-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 11/28/2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							----Asbestos----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-110717-11	10419899.HT		385	1	217	0.34826	0	0	4	$\frac{< 0.003}{0.003}$	0.000
SGC-110717-12	10419900.HT		385	1	239	0.34826	0	0	11.5	$\frac{< 0.002}{0.002}$	0.000
SGC-110717-13	10419901.HT		385	1	233	0.34826	0	0	15	$\frac{< 0.002}{0.002}$	0.000
SGC-110717-14	10419902.HT		385	1	242	0.34826	0	0	0	$\frac{< 0.002}{0.002}$	0.000
SGC-110817-07	10419903.HT		385	1	522	0.34826	0	0	6.5	$\frac{< 0.001}{0.001}$	0.000
SGC-110817-08	10419904.HT		385	1	515	0.34826	0	0	12.5	$\frac{< 0.001}{0.001}$	0.000
SGC-110817-09	10419905.HT		385	1	260	0.34826	0	0	2.5	$\frac{< 0.002}{0.002}$	0.000
SGC-110817-10	10419906	Unable to Prep	---	---	---	---	---	---	---	---	---
SGC-110817-11	10419907	Unable to Prep	---	---	---	---	---	---	---	---	---
SGC-110817-12	10419908	Unable to Prep	---	---	---	---	---	---	---	---	---

### NOTES

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RJ Lee Group Job No: CUH1047691-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 11\28\2017

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
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Authorized Signature:   
Bryan Bandli

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11/7/2017	---	TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -110717-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	
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11/8/2017		TEM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -110817-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG	



March 5, 2018

Roger Kibler  
Safety and Environmental Specialist  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Kibler:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On February 6 and 7, 2018, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On February 6 and 7, 2018, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. Sample SGC-020616-11 (5 ½ Crusher, 1<sup>st</sup> half) was not submitted for analysis due to the presence of caked material on the filter after sampling. In addition,



the other 5 ½ crusher samples (Samples SGC-020616-12, SGC-020716-11, and SGC-020716-12) were reported as overloaded (O/L) by the laboratory. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-020618-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-020618-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-020618-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-020618-10	979 Belt, Floor 2	<0.001	0.1
SGC-020618-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-020618-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-020718-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-020718-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-020718-09	330 & 310 Crusher, 1st half	<0.002	0.1
SGC-020718-10	979 Belt, Floor 2	<0.001	0.1
SGC-020718-11	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-020718-12	5 ½ Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-020718-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – Sample overloaded with background debris and could not be read

All samples with results were reported as below the limit of detection, and were well below the MSHA PEL. All blank samples were reported as non-detect.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading. Samples collected from the 5 ½ Crusher may need to be moved to a location farther from the crusher in order to allow larger, heavier particulate matter to fall out of the air in order to prevent sample overloading while limiting the impact of collecting any fibrous aerosols that may be present.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the

time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Ave  
 Wheat Ridge, CO 80033  
 US

Report Date: 02/20/2018  
 Sample Receipt Date: 02/14/2018  
 RJ Lee Group Job No.: CUH1048569-0  
 Authorization/P.O. No.: CH59273  
 Samples Received: 15  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-020618-07	10429189.HT		385	1	569	0.36556	0	0	4.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-020618-08	10429190.HT		385	1	559	0.36556	0	0	6	$\leq \frac{0.001}{0.001}$	0.000
SGC-020618-09	10429191.HT		385	1	288	0.36556	0	0	1	$\leq \frac{0.002}{0.002}$	0.000
SGC-020618-10	10429192.HT		385	1	611	0.36556	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
SGC-020618-12	10429193.HT	Sample could not be prepared due to loose particulate in the cassette									

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

#### DISCLAIMER

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These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1048569-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 02/20/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm²)	Dilution	Volume (liter)	Area Analyzed (mm²)	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS		
SGC-020618-13	10429194.HT		385	1	280	0.36556	0	0	0	$\frac{\leq 0.002}{0.002}$	0.000
SGC-020618-14	10429195.HT		385	1	578	0.36556	0	0	0	$\frac{\leq 0.001}{0.001}$	0.000
SGC-020718-07	10429196.HT		385	1	477	0.36556	0	0	2	$\frac{\leq 0.001}{0.001}$	0.000
SGC-020718-08	10429197.HT		385	1	476	0.36556	0	0	4.5	$\frac{\leq 0.001}{0.001}$	0.000
SGC-020718-09	10429198.HT		385	1	225	0.36556	0	0	0	$\frac{\leq 0.002}{0.002}$	0.000
SGC-020718-10	10429199.HT		385	1	493	0.36556	0	0	0	$\frac{\leq 0.001}{0.001}$	0.000
SGC-020718-11	10429200.HT	Sample could not be prepared due to loose particulate in the cassette									
SGC-020718-12	10429201.HT	Sample could not be prepared due to loose particulate in the cassette									
SGC-020718-13	10429202.HT		385	1	257	0.36556	0	0	3	$\frac{\leq 0.002}{0.002}$	0.000
SGC-020718-14	10429203.HT		385	1	340	0.36556	0	0	0	$\frac{\leq 0.002}{0.002}$	0.000

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1048569-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 02/20/2018



Authorized Signature: \_\_\_\_\_

Monica McGrath-Koerner  
Scientist II

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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**APPENDIX B:**  
**Field Data Sheets**

<b>Project:</b>	Specialty Granules				<b>Location:</b>	Charmian Q1		<b>Billing To:</b>	Charmian										
<b>Project Manager:</b>	ADD				<b>Surveyor(s):</b>	ADD		<b>Laboratory PO #:</b>	CH59273										
Date	Equipment #	Media Type	Media #	Employee Name	Job Title	Analyte	Sample ID	Pre	Post	Start	Stop	RPD	Minutes	Pump Min	Shift Length	Avg Flow (l/m)	Liters	3 Sig Figs	Lab
2/6/2018	CIH 25	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -020618 -07	2.02	1.97	3:38:00 PM	8:23:00 PM	3%	285	285	8	2.00	568.575	569	RJLG
2/6/2018	CIH 26	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -020618 -08	1.97	1.97	3:40:00 PM	8:24:00 PM	0%	284	284	8	1.97	559.48	559	RJLG
2/6/2018	CIH 30	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -020618 -09	1.97	1.98	3:43:00 PM	6:09:00 PM	1%	146	288	8	1.98	288.35	288	RJLG
2/6/2018	CIH 31	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -020618 -10	2.01	2.02	3:35:00 PM	8:38:00 PM	0%	303	303	8	2.02	610.545	611	RJLG
2/6/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -020618 -11	2.00	2.00	3:50:00 PM	6:20:00 PM	0%	150	250	8	2.00	300	300	RJLG
2/6/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -020618 -12	2.00	2.00	6:20:00 PM	8:00:00 PM	0%	100	250	8	2.00	200	200	RJLG
2/6/2018	CIH 30	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -020618 -13	1.97	1.98	6:09:00 PM	8:31:00 PM	1%	142	288	8	1.98	280.45	280	RJLG
2/6/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -020618 -14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG
2/7/2018	CIH 25	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -020718 -07	1.97	2.02	8:17:00 AM	12:16:00 PM	3%	239	239	8	2.00	476.805	477	RJLG
2/7/2018	CIH 26	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -020718 -08	1.97	2.00	8:18:00 AM	12:18:00 PM	2%	240	239	8	1.99	476.4	476	RJLG
2/7/2018	CIH 30	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -020718 -09	1.98	2.00	8:20:00 AM	10:13:00 AM	1%	113	242	8	1.99	224.87	225	RJLG
2/7/2018	CIH 31	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -020718 -10	2.02	2.04	8:23:00 AM	12:26:00 PM	1%	243	243	8	2.03	493.29	493	RJLG
2/7/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -020718 -11	2.00	1.99	8:10:00 AM	9:52:00 AM	1%	102	228	8	2.00	203.49	203	RJLG
2/7/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -020718 -12	2.00	1.99	9:52:00 AM	11:59:00 AM	1%	127	228	8	2.00	253.365	253	RJLG
2/7/2018	CIH 30	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -020718 -13	1.98	2.00	10:13:00 AM	12:22:00 PM	1%	129	242	8	1.99	256.71	257	RJLG
2/7/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -020718 -14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG





May 25, 2018

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to provide Specialty Granules with industrial hygiene services. On April 24 and 25, 2018, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On April 24 and 25, 2018, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. Six of the samples were reported as overloaded (O/L) by the laboratory and were not analyzed. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-042418-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042418-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042418-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-042418-10	979 Belt, Floor 2	<0.001	0.1
SGC-042418-11	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-042418-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-042418-13	330 & 310 Crusher, 2 <sup>nd</sup> half	O/L	0.1
SGC-042518-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042518-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042518-09	330 & 310 Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-042518-10	979 Belt, Floor 2	O/L	0.1
SGC-042518-11	5 ½ Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-042518-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-042518-13	330 & 310 Crusher, 2 <sup>nd</sup> half	O/L	0.1

O/L – Sample overloaded with background debris and could not be read

All samples that were not overloaded had results reported as below the limit of detection (for asbestos fibers), and were well below the MSHA PEL. All blank samples were reported as non-detect. It should be noted that the reported results are based on the asbestos fibers detected as opposed to all fibers meeting the counting criteria; however, even if all fiber types meeting the counting criteria were considered, the results would still be well below the MSHA PEL of 0.1 f/cc.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading. Samples collected from the 5 ½ Crusher may need to be moved to a location farther from the crusher in order to prevent sample overloading potentially associated with larger, heavier particulate matter near the crusher. If samples were located farther from the crusher, the larger particles may fall out of the air and minimize sample overloading without affecting the collection of any fibrous aerosols that may be present.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time

of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Chemistry & Industrial Hygiene  
 10201 W 43rd Ave  
 Wheat Ridge, CO 80033  
 US

Report Date: 05/08/2018  
 Sample Receipt Date: 05/01/2018  
 RJ Lee Group Job No.: ATH1049455-0  
 Authorization/P.O. No.: CH59273  
 Samples Received: 16  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u>	Ratio
							Chry	Amph	NAS	<u>Sensitivity</u> (f/cc)	(f/F)
SGC-042418-07	10436086.HT		385	1	476	0.34501	0	0	3.5	$\frac{< 0.001}{0.001}$	0.000
SGC-042418-08	10436087.HT		385	1	474	0.34501	0	0	2	$\frac{< 0.001}{0.001}$	0.000
SGC-042418-09	10436088.HT		385	1	232	0.34501	0	0	5	$\frac{< 0.002}{0.002}$	0.000
SGC-042418-10	10436089.HT		385	1	466	0.34501	0	0	3.5	$\frac{< 0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1049455-0  
Client Job No/Name:

Client: Chemistry & Industrial Hygiene  
Report Date: 05\08\2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity (f/cc)	Ratio (f/F)
SGC-042418-11	10436090.HT	O/L Overloaded	385	1	234	---	---	---	---	---	---
SGC-042418-12	10436091.HT		385	1	259	0.34501	0	0	2	$\frac{< 0.002}{0.002}$	0.000
SGC-042418-13	10436092.HT	O/L Overloaded	385	1	246	---	---	---	---	---	---
SGC-042418-14	10436093.HT		385	1	473	0.34501	0	0	0	$\frac{< 0.001}{0.001}$	0.000
SGC-042518-07	10436094.HT		385	1	547	0.34501	0	0	0	$\frac{< 0.001}{0.001}$	0.000
SGC-042518-08	10436095.HT		385	1	547	0.34501	0	0	3.5	$\frac{< 0.001}{0.001}$	0.000
SGC-042518-09	10436096.HT	O/L Overloaded	385	1	260	---	---	---	---	---	---
SGC-042518-10	10436097.HT	O/L Overloaded	385	1	533	---	---	---	---	---	---
SGC-042518-11	10436098.HT	O/L Overloaded	385	1	214	---	---	---	---	---	---
SGC-042518-12	10436099.HT		385	1	346	0.34501	0	0	5.5	$\frac{< 0.002}{0.002}$	0.000

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)


RJ Lee Group Job No: ATH1049455-0

Client Job No/Name:

Client: Chemistry & Industrial Hygiene

Report Date: 05/08/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-042518-13	10436100.HT	O/L Overloaded	385	1	288	---	---	---	---	---	---
SGC-042518-14	10436101.HT		385	1	312	0.34501	0	0	0	$\frac{< 0.002}{0.002}$	0.000

Authorized Signature:   
Bryan Bandli, Principal Investigator

### NOTES

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- "<" indicates results less than analytical sensitivity. "----" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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**APPENDIX B:**  
**Field Data Sheets**



<b>Project:</b>	Specialty Granules				<b>Location:</b>	Charmian Q2		<b>Billing To:</b>	Charmian										
<b>Project Manager:</b>	ADD				<b>Surveyor(s):</b>	ADD		<b>Laboratory PO #:</b>	CH59273										
Date	Equipment #	Media Type	Media #	Employee Name	Job Title	Analyte	Sample ID	Pre	Post	Start	Stop	RPD	Minutes	Pump Min	Shift Length	Avg Flow (l/m)	Liters	3 Sig Figs	Lab
4/24/2018	CIH 18	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -042418 -07	2.03	2.04	3:28:00 PM	7:22:00 PM	0%	234	234	8	2.04	476.19	476	RJLG
4/24/2018	CIH 19	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -042418 -08	2.03	2.04	3:30:00 PM	7:23:00 PM	0%	233	233	8	2.04	474.155	474	RJLG
4/24/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -042418 -09	2.04	2.03	3:32:00 PM	5:26:00 PM	0%	114	113	8	2.04	231.99	232	RJLG
4/24/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -042418 -10	2.01	1.97	3:26:00 PM	7:20:00 PM	2%	234	235	8	1.99	465.66	466	RJLG
4/24/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -042418 -11	2.05	2.06	3:40:00 PM	5:34:00 PM	0%	114	113	8	2.06	234.27	234	RJLG
4/24/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -042418 -12	2.05	2.06	5:34:00 PM	7:40:00 PM	0%	126	125	8	2.06	258.93	259	RJLG
4/24/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -042418 -13	2.04	2.03	5:26:00 PM	7:27:00 PM	0%	121	120	8	2.04	246.235	246	RJLG
4/24/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -042418 -14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG
4/24/18 - Light drizzle throughout the shift.																			
4/25/2018	CIH 18	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -042518 -07	2.04	2.06	7:30:00 AM	11:57:00 AM	1%	267	266	8	2.05	547.35	547	RJLG
4/25/2018	CIH 19	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -042518 -08	2.04	2.07	7:32:00 AM	11:58:00 AM	1%	266	266	8	2.06	546.63	547	RJLG
4/25/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -042518 -09	2.03	2.06	7:34:00 AM	9:41:00 AM	1%	127	127	8	2.05	259.715	260	RJLG
4/25/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -042518 -10	1.97	2.02	7:28:00 AM	11:55:00 AM	3%	267	266	8	2.00	532.665	533	RJLG
4/25/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -042518 -11	2.06	2.06	7:40:00 AM	9:24:00 AM	0%	104	104	8	2.06	214.24	214	RJLG
4/25/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -042518 -12	2.06	2.06	9:24:00 AM	12:12:00 PM	0%	168	168	8	2.06	346.08	346	RJLG
4/25/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -042518 -13	2.03	2.06	9:41:00 AM	12:02:00 PM	1%	141	141	8	2.05	288.345	288	RJLG
4/25/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -042518 -14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG



August 31, 2018

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to again provide Specialty Granules with industrial hygiene services. On August 2 and 3, 2018, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The full report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On August 2 and 3, 2018, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. Samples were collected and analyzed in accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 4%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-042418-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042418-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042418-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-042418-10	979 Belt, Floor 2	<0.001	0.1
SGC-042418-11	5 ½ Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-042418-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.003	0.1
SGC-042418-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-042518-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-042518-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-042518-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-042518-10	979 Belt, Floor 2	<0.001	0.1
SGC-042518-11	5 ½ Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-042518-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-042518-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – Sample overloaded with background debris and could not be read

All sample results were reported as below the limit of detection (for asbestos fibers), and were well below the MSHA PEL. All blank samples were reported as non-detect. It should be noted that the reported results are based on the asbestos fibers detected as opposed to all fibers meeting the counting criteria; however, even if all fibers meeting the counting criteria were considered, the results would still be well below the MSHA PEL of 0.1 f/cc.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Results**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Specialty Granules Inc  
 10201 W 43rd Ave  
 Wheat Ridge, CO 80033  
 US

Report Date: 08/15/2018  
 Sample Receipt Date: 08/08/2018  
 RJ Lee Group Job No.: ATH1050741-0  
 Authorization/P.O. No.: CH59273  
 Samples Received: 16  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-080218-07	10446311.HT		385	1	480	0.34010	0	0	3	$\leq \frac{0.001}{0.001}$	0.000
SGC-080218-08	10446312.HT		385	1	471	0.34010	0	0	5	$\leq \frac{0.001}{0.001}$	0.000
SGC-080218-09	10446313.HT		385	1	235	0.34010	0	0	2	$\leq \frac{0.002}{0.002}$	0.000
SGC-080218-10	10446314.HT		385	1	483	0.34010	0	0	5.5	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

# Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1050741-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 08\15\2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-080218-11	10446315.HT		385	1	275	0.34010	0	0	2	$\leq \frac{0.002}{0.002}$	0.000
SGC-080218-12	10446316.HT		385	1	206	0.34010	0	0	1	$\leq \frac{0.003}{0.003}$	0.000
SGC-080218-13	10446317.HT		385	1	233	0.34010	0	0	5	$\leq \frac{0.002}{0.002}$	0.000
SGC-080218-14	10446318.HT		385	1	412	0.34010	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
SGC-080318-07	10446319.HT		385	1	499	0.35033	0	0	4	$\leq \frac{0.001}{0.001}$	0.000
SGC-080318-08	10446320.HT		385	1	488	0.35033	0	0	9	$\leq \frac{0.001}{0.001}$	0.000
SGC-080318-09	10446321.HT		385	1	236	0.35033	0	0	4.5	$\leq \frac{0.002}{0.002}$	0.000
SGC-080318-10	10446322.HT		385	1	501	0.35033	0	0	1	$\leq \frac{0.001}{0.001}$	0.000
SGC-080318-11	10446323.HT		385	1	244	0.35033	0	0	0	$\leq \frac{0.002}{0.002}$	0.000
SGC-080318-12	10446324.HT		385	1	268	0.35033	0	0	12	$\leq \frac{0.002}{0.002}$	0.000
SGC-080318-13	10446325.HT		385	1	250	0.35033	0	0	4	$\leq \frac{0.002}{0.002}$	0.000

## NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1050741-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 08\15\2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-080318-14	10446326.HT		385	1	272	0.35033	0	0	0	$\leq \frac{0.002}{0.002}$	0.000

Authorized Signature:



Ashleigh Sload, Analyst

### NOTES

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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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**APPENDIX B:**  
**Field Data Sheets**

Project:	Specialty Granules			Location:	Charmian Q3	Billing To:	Charmian													
Project Manager:	ADD			Surveyor(s):	ADD	Laboratory PO #:	CH59273													
Date	Equipment #	Media Type	Media #	Employee Name	Job Title	Analyte	Sample ID	Pre	Post	Start	Stop	RPD	Minutes	Pump Min	Shift Length	Avg Flow (l/m)	Liters	3 Sig Figs	Lab	
8/2/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -080218	-07	2.00	2.03	3:18:00 PM	7:16:00 PM	1%	238	238	8	2.02	479.57	480	RJLG
8/2/2018	CIH 31	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -080218	-08	1.99	1.97	3:19:00 PM	7:17:00 PM	1%	238	238	8	1.98	471.24	471	RJLG
8/2/2018	CIH 22	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -080218	-09	1.98	1.93	3:21:00 PM	5:21:00 PM	3%	120	119	8	1.96	234.6	235	RJLG
8/2/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -080218	-10	2.02	2.02	3:15:00 PM	7:14:00 PM	0%	239	239	8	2.02	482.78	483	RJLG
8/2/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -080218	-11	2.01	2.03	3:29:00 PM	5:45:00 PM	1%	136	135	8	2.02	274.72	275	RJLG
8/2/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -080218	-12	2.01	2.03	5:45:00 PM	7:27:00 PM	1%	102	101	8	2.02	206.04	206	RJLG
8/2/2018	CIH 22	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -080218	-13	1.98	1.93	5:21:00 PM	7:20:00 PM	3%	119	118	8	1.96	232.645	233	RJLG
8/2/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -080218	-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG
8/2/18 - Rain all day prior to shift start; off and on throughout the evening. Everything pretty wet throughout the site.																				
8/3/2018	CIH 29	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 1	Fibrous Aerosols	SGC -080318	-07	2.03	2.03	7:17:00 AM	11:23:00 AM	0%	246	246	8	2.03	499.38	499	RJLG
8/3/2018	CIH 31	0.8 um PCM Cassette	---	Area Sample	Old Gyro Building Floor 2	Fibrous Aerosols	SGC -080318	-08	1.97	2.01	7:19:00 AM	11:24:00 AM	2%	245	245	8	1.99	487.55	488	RJLG
8/3/2018	CIH 22	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -080318	-09	1.93	2.01	7:21:00 AM	9:21:00 AM	4%	120	119	8	1.97	236.4	236	RJLG
8/3/2018	CIH 34	0.8 um PCM Cassette	---	Area Sample	979 Belt Floor 2	Fibrous Aerosols	SGC -080318	-10	2.02	2.04	7:14:00 AM	11:21:00 AM	1%	247	246	8	2.03	501.41	501	RJLG
8/3/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -080318	-11	2.03	2.03	7:29:00 AM	9:29:00 AM	0%	120	119	8	2.03	243.6	244	RJLG
8/3/2018	CIH 36	0.8 um PCM Cassette	---	Area Sample	5 1/2 Crusher	Fibrous Aerosols	SGC -080318	-12	2.03	2.03	9:29:00 AM	11:41:00 AM	0%	132	131	8	2.03	267.96	268	RJLG
8/3/2018	CIH 22	0.8 um PCM Cassette	---	Area Sample	330 & 310 Crusher	Fibrous Aerosols	SGC -080318	-13	1.93	2.01	9:21:00 AM	11:28:00 AM	4%	127	126	8	1.97	250.19	250	RJLG
8/3/2018	---	0.8 um PCM Cassette	---	BLANK	BLANK	Fibrous Aerosols	SGC -080318	-14	---	---	---	---	---	#VALUE!	---	---	---	---	---	RJLG
8/3/18 - Brief rain during morning, but otherwise dry throughout the rest of the shift.																				

## Request for Environmental and IH Laboratory Analytical Services

[illegible]

R3 091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 10/09/2018  
 Sample Receipt Date: 10/08/2018  
 RJ Lee Group Job No.: ATH1051532-0  
 Authorization/P.O. No.: CH59274  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
DA580511	10453362.HT		385	1	309.00	0.38496	0	0	17.5	<u>&lt; 0.002</u> 0.002	0.000
DD435042	10453363.HT		385	1	310.00	0.38496	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
DD435296	10453364.HT		385	1	272.00	0.38496	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
DD434920	10453365.HT		385	1	271.00	0.38496	0	0	4.5	<u>&lt; 0.002</u> 0.002	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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RJ Lee Group, Inc. is accredited by the American Industrial Hygienist Association (AIHA-LAP, LLC) and the New York Department of Health Environmental Laboratory Program (NY ELAP) for airborne asbestos analysis. This report may not be used to claim product endorsement by AIHA, NY ELAP, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a AIHA approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1051532-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 10/09/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DD434222	10453366.HT		385	1	704.00	0.38496	0	0	9	$\leq \frac{0.001}{0.001}$	0.000
DD434923	10453367.HT	O/L - Not Analyzed	---	---	---	---	---	---	---	---	---
DD434394	10453368.HT		385	1	0	0.38496	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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ATH 1051454-0

Page of

**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

R3 091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler null  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 10/04/2018  
 Sample Receipt Date: 10/02/2018  
 RJ Lee Group Job No.: ATH1051454-0  
 Authorization/P.O. No.: CH59274  
 Samples Received: 5  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DA580446	10452818.HT		385	1	220.00	0.34282	0	0	0	<u>&lt; 0.003</u> 0.003	0.000
DA557309	10452819.HT		385	1	199.00	0.34282	0	0	0	<u>&lt; 0.003</u> 0.003	0.000
DA549597	10452820.HT		385	1	208.00	0.34282	0	0	0	<u>&lt; 0.003</u> 0.003	0.000
DA580415	10452821.HT		385	1	0	0.34282	0	0	0	N/A N/A	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1051454-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 10/04/2018

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst



### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 11/19/2018  
 Sample Receipt Date: 11/15/2018  
 RJ Lee Group Job No.: ATH1052015-0  
 Authorization/P.O. No.: CH59773  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD435037	10456380.HT		385	1	209.00	0.37028	0	0	2.5	<u>&lt; 0.002</u> 0.002	0.000
DD434994	10456381.HT		385	1	204.00	0.37028	0	0	0	<u>&lt; 0.003</u> 0.003	0.000
DD434178	10456382.HT		385	1	246.00	0.37028	0	0	1	<u>&lt; 0.002</u> 0.002	0.000
DD434386	10456383.HT		385	1	241.00	0.37028	0	0	0	<u>&lt; 0.002</u> 0.002	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1052015-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 11/19/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD435061	10456384.HT		385	1	105.00	0.37028	0	0	0	$\leq \frac{0.005}{0.005}$	0.000
DD434515	10456385.HT		385	1	100.00	0.37028	0	0	0	$\leq \frac{0.005}{0.005}$	0.000
DD434162	10456386.HT		385	1	0	0.37028	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature:



Ashleigh Sload, Analyst

### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
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- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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ATH 105 2205-0

Page of

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**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

R3 091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 12/07/2018  
 Sample Receipt Date: 12/05/2018  
 RJ Lee Group Job No.: ATH1052205-0  
 Authorization/P.O. No.: CH59273  
 Samples Received: 3  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD434275	10457749.HT		385	1	83.00	0.37283	0	0	1	$\leq 0.006$ 0.006	0.000
DD435203	10457750.HT		385	1	79.00	0.37283	0	0	3	$\leq 0.007$ 0.007	0.000
DD434207	10457751.HT		385	1	0	0.37283	0	0	0	N/A N/A	0.000

#### NOTES

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- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052205-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 12\07\2018

Authorized Signature:



Ashleigh Sload, Analyst

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 12/28/2018  
 Sample Receipt Date: 12/19/2018  
 RJ Lee Group Job No.: ATH1052378-0  
 Authorization/P.O. No.: CH62327  
 Samples Received: 8  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582170	10459022.HT		385	1	393.00	0.37272	0	1	2.5	<u>0.003</u> 0.001	0.286
DF582168	10459023.HT		385	1	379.00	0.37272	0	1	4.5	<u>0.003</u> 0.001	0.182
DF582184	10459024.HT		385	1	410.00	0.37272	0	0	0	<u>&lt; 0.001</u> 0.001	0.000
DF582179	10459025.HT		385	1	415.00	0.37272	0	0	1	<u>&lt; 0.001</u> 0.001	0.000

#### NOTES

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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052378-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 12/28/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DF582141	10459026.HT		385	1	240.00	0.37272	0	0	0	$\leq \frac{0.002}{0.002}$	0.000
DF582139	10459027.HT		385	1	247.00	0.37272	0	0	0.5	$\leq \frac{0.002}{0.002}$	0.000
DD437966	10459028.HT		385	1	488.00	0.37272	0	1	6.5	$\frac{0.002}{0.001}$	0.133
DD435019	10459029.HT		385	1	481.00	0.37272	0	0	1	$\leq \frac{0.001}{0.001}$	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES


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<b>Pennsylvania - HQ</b> 350 Hochberg Road Monroeville, PA 15146  724.325.1776 <b>Phone</b> 724.733.1799 <b>Fax</b>	<b>Pennsylvania - Waynesburg</b> 100 EverGreene Drive, Suite 101 Waynesburg, PA 15370  724.627.7818 <b>Phone</b> 724.627.2018 <b>Fax</b>	<b>Washington</b> Center for Laboratory Services 2710 North 20th Avenue Pasco, WA 99301  509.545.4989 <b>Phone</b> 509.544.6010 <b>Fax</b>	<b>Tennessee</b> 1000 Heritage Center Boulevard Building 1000 Oak Ridge, TN 37830  412.867.9864 <b>Phone</b>	 <b>RJ LEE GROUP</b> DELIVERING SCIENTIFIC RESOLUTION
--	---	--	---	---

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 12/21/2018  
 Sample Receipt Date: 12/19/2018  
 RJ Lee Group Job No.: ATH1052380-0  
 Authorization/P.O. No.: CH62327  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
DD434903	10459032.HT		385	1	322.00	0.37272	0	0	3	$\leq \frac{0.002}{0.002}$	0.000
DD434139	10459033.HT		385	1	325.00	0.37272	0	0	0.5	$\leq \frac{0.002}{0.002}$	0.000
DD434986	10459034.HT		385	1	274.00	0.37272	0	0	0	$\leq \frac{0.002}{0.002}$	0.000
DD435243	10459035.HT		385	1	266.00	0.37272	0	0	0	$\leq \frac{0.002}{0.002}$	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052380-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 12/21/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD434190	10459036.HT		385	1	344.00	0.37272	0	0	1	$\leq \frac{0.002}{0.002}$	0.000
DD435274	10459037.HT		385	1	322.00	0.37272	0	0	1	$\leq \frac{0.002}{0.002}$	0.000
DD438093	10459038.HT		385	1	157.00	0.37272	0	0	5	$\leq \frac{0.003}{0.003}$	0.000
DD435021	10459039.HT		385	1	163.00	0.37272	0	0	1	$\leq \frac{0.003}{0.003}$	0.000
DF582208	10459040.HT		385	1	0	0.37272	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature:



Ashleigh Sload, Analyst

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ATH 1052382-0

Page of



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 12/21/2018  
 Sample Receipt Date: 12/19/2018  
 RJ Lee Group Job No.: ATH1052382-0  
 Authorization/P.O. No.: CH62327  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582178	10459110.HT		385	1	219.00	0.37272	0	0.5	1.5	<u>0.002</u> 0.002	0.250
DF582129	10459111.HT		385	1	215.00	0.37272	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
DF582123	10459112.HT		385	1	628.00	0.37272	0	0	2	<u>&lt; 0.001</u> 0.001	0.000
DF582136	10459113.HT		385	1	632.00	0.37272	0	0	0	<u>&lt; 0.001</u> 0.001	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052382-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 12/21/2018

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582151	10459114.HT		385	1	620.00	0.37272	0	1	1	<u>0.002</u> 0.001	0.500
DF582135	10459115.HT		385	1	638.00	0.37272	0	0	2.5	<u>&lt; 0.001</u> 0.001	0.000
DF582161	10459116.HT		385	1	552.00	0.37272	0	0	0	<u>&lt; 0.001</u> 0.001	0.000
DF582147	10459117.HT		385	1	540.00	0.37272	0	0	4	<u>&lt; 0.001</u> 0.001	0.000
DF582182	10459118.HT		385	1	0	0.37272	0	0	0	N/A N/A	0.000

Authorized Signature:



Ashleigh Sload, Analyst

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## Request for Environmental and IH Laboratory Analytical Services

[illegible]

**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 01/04/2019  
 Sample Receipt Date: 12/26/2018  
 RJ Lee Group Job No.: ATH1052413-0  
 Authorization/P.O. No.: CH62327  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DF582355	10459445.HT		385	1	734.00	0.37272	0	0	4	$\leq \frac{0.001}{0.001}$	0.000
DF582372	10459446.HT		385	1	741.00	0.37272	0	0	1	$\leq \frac{0.001}{0.001}$	0.000
DF582338	10459447.HT		385	1	721.00	0.37272	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF582548	10459448.HT		385	1	747.00	0.37272	0	0	6.5	$\leq \frac{0.001}{0.001}$	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052413-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 01/04/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582357	10459449.HT		385	1	837.00	0.37272	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF582377	10459450.HT		385	1	845.00	0.37272	0	0	1	$\leq \frac{0.001}{0.001}$	0.000
DF582343	10459451.HT		385	1	0	0.37272	0	0	0	N/A N/A	0.000

Authorized Signature:



Ashleigh Sload, Analyst

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January 24, 2019

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to again provide Specialty Granules with industrial hygiene services. On December 18 and 19, 2018, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On December 18 and 19, 2018, C&IH employee Andrew Duane collected a total of 14 fibrous aerosol samples, including 12 area samples and two sample blanks. Samples were collected and analyzed in general accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 5%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1. All sample blank results were reported by the laboratory as below the limit of detection.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-121818-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-121818-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-121818-09	330 & 310 Crusher, 1 <sup>st</sup> half	O/L	0.1
SGC-121818-10	979 Belt, Floor 2	<0.001	0.1
SGC-121818-11	5 ½ Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-121818-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-121818-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.003	0.1
SGC-121918-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-121918-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-121918-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-121918-10	979 Belt, Floor 2	<0.001	0.1
SGC-121918-11	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

O/L – Sample overloaded with background debris and could not be read

All samples that were not overloaded had results reported as below the limit of detection (for asbestos fibers), and were well below the MSHA PEL. All blank samples were reported as non-detect. It should be noted that the reported results are based on the asbestos fibers detected as opposed to all fibers meeting the counting criteria; however, even if all fiber types meeting the counting criteria were considered, the results would still be well below the MSHA PEL of 0.1 f/cc.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:

A handwritten signature in black ink, appearing to read "Andrew D. Duane".

Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:

Three handwritten signatures in black ink, likely representing reviewers. The first is "R.D. Strode", the second is a stylized "D", and the third is a stylized "A".

Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Analytical Reports**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Chemistry & Industrial Hygiene, Inc.  
 10201 W. 43rd Avenue  
 Wheat Ridge, CO 80033  
 US

Report Date: 01/08/2019  
 Sample Receipt Date: 12/31/2018  
 RJ Lee Group Job No.: CUH1052439-0  
 Authorization/P.O. No.: CH62327  
 Samples Received: 14  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-121818-07	10459592.HT		385	1	469	0.36301	0	0	5.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-121818-08	10459593.HT		385	1	472	0.36301	0	0	7	$\leq \frac{0.001}{0.001}$	0.000
SGC-121818-10	10459595.HT		385	1	464	0.36301	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
SGC-121818-11	10459596.HT		385	1	239	0.36301	0	0	2	$\leq \frac{0.002}{0.002}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

#### DISCLAIMER

RJ Lee Group, Inc. is accredited by the American Industrial Hygienist Association (AIHA-LAP, LLC) and the New York Department of Health Environmental Laboratory Program (NY ELAP) for airborne asbestos analysis. This report may not be used to claim product endorsement by AIHA, NY ELAP, or any other regulatory or laboratory accrediting agency. Any reproduction of this document must be in full in order for the report to be valid. This report is not valid unless it bears the name of a AIHA approved signatory.

These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limiting provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, RJ Lee Group will store the samples for a period of ninety (90) days before discarding. A shipping and handling fee will be assessed for the return of any sample.

# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1052439-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene, Inc.  
Report Date: 01/08/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-121818-12	10459597.HT		385	1	235	0.36301	0	0	3	$\leq \frac{0.002}{0.002}$	0.000
SGC-121818-13	10459598.HT		385	1	180	0.36301	0	0	1	$\leq \frac{0.003}{0.003}$	0.000
SGC-121818-14	10459599.HT		385	1	265	0.36301	0	0	0	$\leq \frac{0.002}{0.002}$	0.000
SGC-121918-07	10459600.HT		385	1	479	0.36301	0	0	6	$\leq \frac{0.001}{0.001}$	0.000
SGC-121918-08	10459601.HT		385	1	483	0.36301	0	0	4	$\leq \frac{0.001}{0.001}$	0.000
SGC-121918-09	10459602.HT		385	1	252	0.36301	0	0	0	$\leq \frac{0.002}{0.002}$	0.000
SGC-121918-10	10459603.HT		385	1	482	0.36301	0	0	4.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-121918-11	10459604.HT		385	1	235	0.36301	0	0	5	$\leq \frac{0.002}{0.002}$	0.000
SGC-121918-12	10459605.HT		385	1	473	0.36301	0	0	0	$\leq \frac{0.001}{0.001}$	0.000

### NOTES

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2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1052439-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene, Inc.  
Report Date: 01/08/2019



Authorized Signature: \_\_\_\_\_  
Monica McGrath-Koerner, Scientist

\* Sample SGC-121818-09/10459594 unable to be prepped. Loose particulate in cassette.

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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**APPENDIX B:**  
**Field Data Sheets**

[illegible]

ATH 1052755-0



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 02/05/2019  
 Sample Receipt Date: 01/31/2019  
 RJ Lee Group Job No.: ATH1052755-0  
 Authorization/P.O. No.: CH59273  
 Samples Received: 4  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DA549245	10463935.HT		385	1	86.00	0.36705	0	0	1	<u>&lt; 0.006</u> 0.006	0.000
DA580288	10463936.HT		385	1	89.00	0.36705	0	0	2	<u>&lt; 0.006</u> 0.006	0.000
DD434438	10463937.HT		385	1	113.00	0.36705	0	0	1	<u>&lt; 0.005</u> 0.005	0.000
DD435040	10463938.HT		385	1	0	0.36705	0	0	0	N/A N/A	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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## RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1052755-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 02\05\2019

Authorized Signature: \_\_\_\_\_



Ashleigh Sload, Analyst

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
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ATH 1053410-0

Page of



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 04/09/2019  
 Sample Receipt Date: 04/02/2019  
 RJ Lee Group Job No.: ATH1053410-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF585974	10473760.HT		385	1	374.00	0.37451	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF586037	10473761.HT		385	1	368.00	0.37451	0	0	12	$\leq \frac{0.001}{0.001}$	0.000
DF585961	10473762.HT		385	1	381.00	0.37451	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF586042	10473763.HT		385	1	379.00	0.37451	0	0	0	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1053410-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 04/09/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF585938	10473764.HT		385	1	353.00	0.37451	0	0	1.5	$\leq \frac{0.001}{0.001}$	0.000
DF586041	10473765.HT		385	1	354.00	0.37451	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF585916	10473766.HT		385	1	336.00	0.37451	0	0	7.5	$\leq \frac{0.002}{0.002}$	0.000
DF586013	10473767.HT		385	1	334.00	0.37451	0	1	2.5	$\frac{0.003}{0.002}$	0.286
DF586022	10473768.HT		385	1		0.37451	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

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# Request for Environmental and IH Laboratory Analytical Services

ATH 1053411-0

<b>ATTENTION TO:</b>						Purchase Order No.: CH62753		Page      of		Client Job No.:																
<b>Lab Use Only</b>	Project No.:		Client No.:		Turnaround Request: <b>Standard</b>																					
	Date Logged In:		Logged In By:																							
<b>Report Results To</b>	Name: Roger Kibler					<b>Drinking Water Sample Only</b>	Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below):																			
	Company: Specialty Granules						System ID #:																			
	Address: 1324 Pennsylvania Ave Suite 303						DOH Source #:																			
	City, State, Zip: Hagerstown Md. 21742					Multiple Sources #:																				
	Phone: 717-729-1817 Fax: ( )					Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>																				
	Call with Verbal Results:					<b>Chemistry Analysis Key</b> <table style="width:100%; font-size: small;"> <tr> <td><b>Preservation:</b></td> <td><b>Matrix:</b></td> <td><b>Container:</b></td> </tr> <tr> <td>Unpres H<sub>2</sub>SO<sub>4</sub></td> <td>WW=Wastewater</td> <td>P=Plastic</td> </tr> <tr> <td>4°C HCl</td> <td>GW=Groudwater</td> <td>G=Glass</td> </tr> <tr> <td>HNO<sub>3</sub> NaOH</td> <td>S=Soil/Sludge</td> <td>W=Wipe</td> </tr> <tr> <td>Other Na<sub>2</sub>SO<sub>4</sub></td> <td>E=Extract</td> <td>A=Air (filter or tube)</td> </tr> </table>							<b>Preservation:</b>	<b>Matrix:</b>	<b>Container:</b>	Unpres H <sub>2</sub> SO <sub>4</sub>	WW=Wastewater	P=Plastic	4°C HCl	GW=Groudwater	G=Glass	HNO <sub>3</sub> NaOH	S=Soil/Sludge	W=Wipe	Other Na <sub>2</sub> SO <sub>4</sub>	E=Extract
<b>Preservation:</b>	<b>Matrix:</b>	<b>Container:</b>																								
Unpres H <sub>2</sub> SO <sub>4</sub>	WW=Wastewater	P=Plastic																								
4°C HCl	GW=Groudwater	G=Glass																								
HNO <sub>3</sub> NaOH	S=Soil/Sludge	W=Wipe																								
Other Na <sub>2</sub> SO <sub>4</sub>	E=Extract	A=Air (filter or tube)																								
Email Results To: Rkibler@specialtygranules.com																										
Fax Results To:																										
<b>Send Invoice To</b>	Name: Patrick Cool																									
	Company: Specialty Granules Email:																									
	Address: 1455 Old Waynesboro Road																									
City, State, Zip: Blue Ridge Summit, PA. 17214																										
Phone: ( ) Fax: ( )																										
<b>Special Instructions</b>																										
<b>Client Sample ID</b>		<b>Sample Description</b>	<b>Sample Date</b>	<b>Sample Time</b>		<b>Wipe Area / Air Volume</b>	TEM-7402	<b>Analysis Requested</b>																		
				<b>Start</b>	<b>Stop</b>			<table style="width:100%; text-align: center; font-size: x-small;"> <tr> <td>Pres. Upon Receipt (Y/N)</td> <td>Preservation</td> <td>Matrix</td> <td>Container Type</td> <td>pH</td> <td>No. Containers</td> </tr> </table>										Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers			
Pres. Upon Receipt (Y/N)	Preservation	Matrix	Container Type	pH	No. Containers																					
DF585928	340 Haul Truck -Inside	03/20/19	9:08am	12:04pm	360.00	X																				
DF586033	340 Haul Truck -Outside	03/20/19	9:07am	12:02pm	362.00	X																				
DF585968	Loader-310-Inside	03/20/19	9:10am	12:04pm	353.00	x																				
DF585963	Loader-310-Outside	03/20/19	9:11am	12:02pm	348.00	x																				
DF586031	Excavator-490 Komatsu 490-Inside	03/20/19	9:17am	11:55pm	327.00	x																				
DF586070	Excavator-490 Komatsu 490-Outside	03/20/19	9:19am	11:55am	325.00	x																				
DF586016	Blank	03/20/19				x																				
						x																				
						x																				
<b>Chain of Custody</b>	Relinquished By (Signature): <i>Roger Kibler</i> Date: <i>3/20/19</i> Time:					<b>Chain of Custody</b>	Received By (Signature): <i>Lisa Hall</i> Date: <i>04/02/19</i> Time: <i>9:55 AM</i>																			
	Relinquished By (Print Name): <i>Roger Kibler</i> Relinquished To:						Received By (Print Name): <i>Lisa Hall</i> Relinquished To:																			
	Company Name: Specialty Granules Method of Shipment:						Company Name: <i>RJLG</i> Method of Shipment:																			
<b>Chain of Custody</b>	Relinquished By (Signature):					<b>Chain of Custody</b>	Received By (Signature):					Date: Time:														
	Relinquished By (Print Name):						Received By (Print Name):					Relinquished To:														
	Company Name: Method of Shipment:						Company Name: Method of Shipment:																			

Pennsylvania - HQ  
350 Hochberg Road  
Monroeville, PA 15146

Pennsylvania - Waynesburg  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

Washington  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301

509.545.4989 Phone  
509.544.6010 Fax

Tennessee  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830

412.867.9864 Phone

 **RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

724.325.1776 Phone  
724.733.1799 Fax

724.627.7818 Phone  
724.627.2018 Fax

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 04/09/2019  
 Sample Receipt Date: 04/02/2019  
 RJ Lee Group Job No.: ATH1053411-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF585928	10473777.HT		385	1	360.00	0.37451	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF586033	10473778.HT		385	1	362.00	0.37451	0	0	7	$\leq \frac{0.001}{0.001}$	0.000
DF585968	10473779.HT		385	1	353.00	0.37451	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF585963	10473780.HT		385	1	348.00	0.37451	0	0	4.5	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
- These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1053411-0  
Client Job No/Name:

Client: Specialty Granules Inc  
Report Date: 04/09/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DF586031	10473781.HT		385	1	327.00	0.37451	0	0	11.5	$\leq \frac{0.002}{0.002}$	0.000
DF586070	10473782.HT		385	1	325.00	0.37451	0	0	4	$\leq \frac{0.002}{0.002}$	0.000
DF586016	10473783.HT		385	1	0	0.37451	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

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ATH 1053412-0

Page of

<b>Pennsylvania - HQ</b> 350 Hochberg Road Monroeville, PA 15146	<b>Pennsylvania - Waynesburg</b> 100 EverGreene Drive, Suite 101 Waynesburg, PA 15370	<b>Washington</b> Center for Laboratory Services 2710 North 20th Avenue Pasco, WA 99301	<b>Tennessee</b> 1000 Heritage Center Boulevard Building 1000 Oak Ridge, TN 37830
724.325.1776 <b>Phone</b>	724.627.7818 <b>Phone</b>	509.545.4989 <b>Phone</b>	412.867.9864 <b>Phone</b>
724.733.1799 <b>Fax</b>	724.627.2018 <b>Fax</b>	509.544.6010 <b>Fax</b>	



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 04/09/2019  
 Sample Receipt Date: 04/02/2019  
 RJ Lee Group Job No.: ATH1053412-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 8  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
DF585903	10473784.HT		385	1	779.00	0.37451	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF582118	10473785.HT		385	1	804.00	0.37451	0	0	6	$\leq \frac{0.001}{0.001}$	0.000
DF586008	10473786.HT		385	1	779.00	0.37451	0	0	3	$\leq \frac{0.001}{0.001}$	0.000
DF585905	10473787.HT		385	1	792.00	0.37451	0	0	0	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1053412-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 04/09/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF585950	10473788.HT		385	1	788.00	0.37451	0	0	0.5	$\leq \frac{0.001}{0.001}$	0.000
DF586043	10473789.HT		385	1	608.00	0.37451	0	0.5	10	$\frac{0.001}{0.001}$	0.048
DF586044	10473790.HT		385	1	606.00	0.37451	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF586011	10473791.HT		385	1	0	0.37451	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
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April 19, 2019

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to again provide Specialty Granules with industrial hygiene services. On March 19 and 20, 2019, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On March 19 and 20, 2019, C&IH employee Andrew Duane collected a total of 14 fibrous aerosol samples, including 12 area samples and two sample blanks. Samples were collected and analyzed in general accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 2%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-031919-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-031919-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-031919-09	330 & 310 Crusher, 1 <sup>st</sup> half	<0.002	0.1
SGC-031919-10	979 Belt, Floor 2	<0.001	0.1
SGC-031919-11	5 ½ Crusher, 1 <sup>st</sup> half	0.005	0.1
SGC-031919-12	5 ½ Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-031919-13	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1
SGC-032019-07	Old Gyro Building, Floor 1	<0.001	0.1
SGC-032019-08	Old Gyro Building, Floor 2	<0.001	0.1
SGC-032019-09	330 & 310 Crusher, 1 <sup>st</sup> half	0.004	0.1
SGC-032019-10	979 Belt, Floor 2	<0.001	0.1
SGC-032019-11	330 & 310 Crusher, 2 <sup>nd</sup> half	<0.002	0.1

All sample results were well below the MSHA PEL. Two samples had detectable amounts of fibrous minerals, which the laboratory identified as actinolite in both samples. All blank samples were reported as non-detect. It should be noted that the reported results are based on the asbestos fibers detected as opposed to all fibers meeting the counting criteria; however, even if all fiber types meeting the counting criteria were considered, the results would still be well below the MSHA PEL of 0.1 f/cc. Similarly, it should be noted that the reported amphibole asbestos results are based on the laboratory's definition of fibrous particles as opposed to all particles meeting the counting criteria. All but two field sample contained non-fibrous actinolite that met the NIOSH Method 7402 aspect ratio (>3:1 length to width) and length (> 5 µm) criteria for asbestos fibers but were determined by the laboratory to be non-asbestiform particles based on morphology. However, even if all of these particles were considered asbestiform, the results would still be below the MSHA PEL of 0.1 f/cc.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time



of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Analytical Reports**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Chemistry & Industrial Hygiene, Inc.  
 10201 W 43rd Ave  
 Wheat Ridge, CO 80033  
 US

Report Date: 04/02/2019  
 Sample Receipt Date: 03/26/2019  
 RJ Lee Group Job No.: CUH1053355-0  
 Authorization/P.O. No.: CH62754  
 Samples Received: 14  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-031919-07	10473380.HT		385	1	492	0.36499	0	0	2.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-031919-08	10473381.HT		385	1	483	0.36499	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
SGC-031919-09	10473382.HT		385	1	242	0.36499	0	0	11	$\leq \frac{0.002}{0.002}$	0.000
SGC-031919-10	10473383.HT		385	1	519	0.36499	0	0	7	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1053355-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene, Inc.  
Report Date: 04/02/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-031919-11	10473384.HT		385	1	215	0.36499	0	1	6.5	<u>0.005</u> 0.002	0.133
SGC-031919-12	10473385.HT		385	1	247	0.36499	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
SGC-031919-13	10473386.HT		385	1	259	0.36499	0	0	2	<u>&lt; 0.002</u> 0.002	0.000
SGC-031919-14	10473387.HT		385	1	246	0.36499	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
SGC-032019-07	10473388.HT		385	1	505	0.36499	0	0	2.5	<u>&lt; 0.001</u> 0.001	0.000
SGC-032019-08	10473389.HT		385	1	505	0.36499	0	0	5	<u>&lt; 0.001</u> 0.001	0.000
SGC-032019-09	10473390.HT		385	1	246	0.36499	0	1	5.5	<u>0.004</u> 0.002	0.154
SGC-032019-10	10473391.HT		385	1	512	0.36499	0	0	8	<u>&lt; 0.001</u> 0.001	0.000
SGC-032019-11	10473392.HT		385	1	265	0.36499	0	0	0	<u>&lt; 0.002</u> 0.002	0.000
SGC-032019-12	10473393.HT		385	1	507	0.36499	0	0	0	<u>&lt; 0.001</u> 0.001	0.000

### NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1053355-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene, Inc.  
Report Date: 04/02/2019

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst



### NOTES

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5. Samples will be held for 90 days and then disposed of per Federal regulations.
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7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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**APPENDIX B:**  
**Field Data Sheets**

[illegible]

# Request for Environmental and IH Laboratory Analytical Services

[illegible]

**Pennsylvania - HQ**  
350 Hochberg Road  
Monroeville, PA 15146

724.325.1776 Phone  
724.733.1799 Fax

**Pennsylvania - Waynesburg**  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

724.627.7818 Phone  
724.627.2018 Fax

**Washington**  
Center for Laboratory Services  
2710 North 20th Avenue  
Pasco, WA 99301  
509.545.4989 **Phone**  
509.544.6010 **Fax**

**Tennessee**  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830  
412.867.9864 **Phone**



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION



## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 06/04/2019  
 Sample Receipt Date: 05/24/2019  
 RJ Lee Group Job No.: ATH1054081-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 5  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD437013	10478141.HT		385	1	691.11	0.37567	0	0	1.5	$\leq \frac{0.001}{0.001}$	0.000
DD436629	10478142.HT		385	1	694.62	0.37567	0	1	4	$\frac{0.001}{0.001}$	0.200
DD434527	10478143.HT		385	1	684.26	0.37567	0	0	5.5	$\leq \frac{0.001}{0.001}$	0.000
DD434786	10478144.HT		385	1	680.65	0.37567	0	0	4	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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- If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054081-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 06/04/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD434822	10478145.HT		385	1	680.65	0.37567	0	0.5	1	<u>0.001</u> 0.001	0.333

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

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# Request for Environmental and IH Laboratory Analytical Services

Lab Use Only						Report Results To								Send Invoice To				Special Instructions																	
Project No.: _____ Client No.: _____						Date Logged In: _____ Logged In By: _____								Name: Roger Kibler Company: Specialty Granules Address: 1324 Pennsylvania Ave Suite 303 City, State, Zip: Hagerstown Md. 21742 Phone: 717-729-1817 Fax: ( ) Call with Verbal Results: Email Results To: Rkibler@specialtygranules.com Fax Results To:				Name: Patrick Cool Company: Specialty Granules Email: patrick.cool@specialtygranules.com Address: 1455 Old Waynesboro Road City, State, Zip: Blue Ridge Summit, PA. 17214 Phone: ( ) Fax: ( )																	
Purchase Order No.: CH62753						Client Job No.: _____								Turnaround Request Standard																					
Drinking Water Sample Only						Sample Purpose: Information <input type="checkbox"/> Regulatory <input type="checkbox"/> Accreditation (please list below): System ID #: _____ DOH Source #: _____ Multiple Sources #: _____ Sample Purpose: A <input type="checkbox"/> B <input type="checkbox"/> Other <input type="checkbox"/>								Chemistry Analysis Key																					
Preservation: Unpres H <sub>2</sub> SO <sub>4</sub> 4°C HCl HNO <sub>3</sub> Other NaOH Na <sub>2</sub> SO <sub>4</sub>						Matrix: WW=Wastewater GW=Groudwater S=Soil/Sludge E=Extract								Container: P=Plastic G=Glass W=Wipe A=Air (filter or tube)																					
Analysis Requested																																			
TEM-7402																																			
Client Sample ID						Sample Description						Sample Date		Sample Time		Wipe Area / Air Volume		Pres. Upon Receipt (Y/N)				Preservation		Matrix		Container Type		pH		No. Containers					
DF585987						490 Excavator						04/03/19		9:25AM 1:45PM		562.12		X																	
DR586020						320 Outside						04/03/19		7:43AM 2:29PM		825.20		X																	
DF585926						310 Inside						04/03/19		7:46AM 2:31PM		823.97		x																	
DF586045						270 Outside						04/03/19		7:45AM 2:30PM		821.95		x																	
DD434652						280 Outside						4/10/19		8:28AM 1:53PM		325.00		x																	
DD434840						310 Outside						4/10/19		8:30AM 1:53PM		323.00		x																	
DD437881						330 inside						4/10/19		8:52AM 1:53PM		301.00		x																	
Chain of Custody						Relinquished By (Signature): [Signature] Relinquished By (Print Name): Patrick Cool Company Name: Specialty Granules						Date: 23 Apr 19 Time: 10:18 AM Relinquished To: RJ Lee Method of Shipment: Fed ex						Chain of Custody						Received By (Signature): [Signature] Received By (Print Name): Linda Mangus Company Name: [Signature]						Date: 05-24-19 Time: 8:58 AM Relinquished To: Method of Shipment:					
Chain of Custody						Relinquished By (Signature): Relinquished By (Print Name): Company Name:						Date: Time: Relinquished To: Method of Shipment:						Chain of Custody						Received By (Signature): Received By (Print Name): Company Name:						Date: Time: Relinquished To: Method of Shipment:					

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Pasco, WA 99301  
509.545.4989 **Phone**  
509.544.6010 **Fax**

**Tennessee**  
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Building 1000  
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412.867.9864 **Phone**



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 06/04/2019  
 Sample Receipt Date: 05/24/2019  
 RJ Lee Group Job No.: ATH1054082-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF585987	10478146.HT		385	1	562.12	0.37567	0	0	10.5	<u>&lt; 0.001</u> 0.001	0.000
DF586020	10478147.HT	O/L - Unable to Analyze	---	---	---	---	---	---	---	---	---
DF585926	10478148.HT		385	1	823.97	0.37567	0	3	20	<u>0.004</u> 0.001	0.130
DF586045	10478149.HT		385	1	821.95	0.37567	0	1	28	<u>0.001</u> 0.001	0.034

#### NOTES

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- Samples will be held for 90 days and then disposed of per Federal regulations.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054082-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 06/04/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DD434652	10478150.HT		385	1	325.00	0.37567	0	0	4	$\leq \frac{0.002}{0.002}$	0.000
DD434840	10478151.HT		385	1	323.00	0.37567	0	1	17	$\frac{0.003}{0.002}$	0.056
DD437881	10478152.HT		385	1	301.00	0.37567	0	0	8.5	$\leq \frac{0.002}{0.002}$	0.000

Authorized Signature:   
Monica McGrath-Koerner, Scientist

### NOTES

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# Request for Environmental and IH Laboratory Analytical Services

[illegible]

**Pennsylvania - HQ**  
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**Pennsylvania - Waynesburg**  
100 EverGreene Drive, Suite 101  
Waynesburg, PA 15370

**Washington**  
Center for Laboratory Services  
2710 North 20th Avenue  
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**Tennessee**  
1000 Heritage Center Boulevard  
Building 1000  
Oak Ridge, TN 37830  
412.867.9864 **Phone**



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 06/04/2019  
 Sample Receipt Date: 05/24/2019  
 RJ Lee Group Job No.: ATH1054057-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 7  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		<u>Concentration</u> Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD434700	10477764.HT		385	1	410.16	0.37567	0	0	2.5	$\leq \frac{0.001}{0.001}$	0.000
DD434964	10477765.HT		385	1	400.80	0.37567	0	0	6.5	$\leq \frac{0.001}{0.001}$	0.000
DD434924	10477766.HT		385	1	794.04	0.37567	0	0	6	$\leq \frac{0.001}{0.001}$	0.000
DD434717	10477767.HT	O/L - Unable to Analyze	---	---	---	---	---	---	---	---	---

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- Samples will be held for 90 days and then disposed of per Federal regulations.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054057-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 06/04/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DD434890	10477768.HT		385	1	791.97	0.37567	0	0	15.5	$\leq \frac{0.001}{0.001}$	0.000
DD435126	10477769.HT		385	1	805.07	0.37567	0	0	4	$\leq \frac{0.001}{0.001}$	0.000
DD436880	10477770.HT		385	1	769.42	0.37567	0	0	14	$\leq \frac{0.001}{0.001}$	0.000

Authorized Signature:   
Monica McGrath-Koerner, Scientist

### NOTES

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# Request for Environmental and IH Laboratory Analytical Services

[illegible]

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**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 06/03/2019  
 Sample Receipt Date: 05/24/2019  
 RJ Lee Group Job No.: ATH1054055-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 4  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
DD437953	10477749.HT		385	1	358.49	0.37567	0	0	3.5	$\leq \frac{0.001}{0.001}$	0.000
DD437516	10477750.HT		385	1	352.54	0.37567	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DD443595	10477751.HT		385	1	352.84	0.37567	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DD437766	10477752.HT		385	1	345.70	0.37567	0	0	3.5	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

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## RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054055-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 06/03/2019

Authorized Signature: \_\_\_\_\_



Ashleigh Sload, Analyst

### NOTES

1. Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
2. "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
3. If RJ Lee Group, Inc. did not collect the samples analyzed, the verifiability of the laboratory's results are limited to the reported values.
4. Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
5. Samples will be held for 90 days and then disposed of per Federal regulations.
6. Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
7. These results are submitted pursuant to RJ Lee Group's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which these results are used or interpreted.

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HTH 1054083-0



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESOLUTION

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 06/04/2019  
 Sample Receipt Date: 05/28/2019  
 RJ Lee Group Job No.: ATH1054083-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 8  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582095	10478156.HT		385	1	850.34	0.37567	0	0	0.5	$\leq \frac{0.001}{0.001}$	0.000
DF585946	10478157.HT		385	1	842.73	0.37567	0	0	4.5	$\leq \frac{0.001}{0.001}$	0.000
DF586040	10478158.HT		385	1	718.82	0.37567	0	0	12.5	$\leq \frac{0.001}{0.001}$	0.000
DF586001	10478159.HT		385	1	695.67	0.37567	0	0	15.5	$\leq \frac{0.001}{0.001}$	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054083-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 06/04/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
DF582174	10478160.HT		385	1	388.70	0.37567	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF582288	10478161.HT		385	1	362.39	0.37567	0	0	7.5	$\leq \frac{0.001}{0.001}$	0.000
DF582187	10478162.HT		385	1	388.61	0.37567	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF582163	10478163.HT		385	1	387.04	0.37567	0	0	8.5	$\leq \frac{0.001}{0.001}$	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

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## Request for Environmental and IH Laboratory Analytical Services

R3 091112

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 07/19/2019  
 Sample Receipt Date: 07/15/2019  
 RJ Lee Group Job No.: ATH1054622-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 5  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
280 Haul 1	10482267.HT		385	1	562.90	0.36864	0	0	9	$\leq \frac{0.001}{0.001}$	0.000
280 Haul 2	10482268.HT		385	1	563.80	0.36864	0	0	32	$\leq \frac{0.001}{0.001}$	0.000
Excavator 1	10482269.HT		385	1	432.00	0.36864	0	0	8	$\leq \frac{0.001}{0.001}$	0.000
Excavator 2	10482270.HT		385	1	426.30	0.36864	0	0	25.5	$\leq \frac{0.001}{0.001}$	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1054622-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 07/19/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
Control	10482271.HT		385	1	0	0.36864	0	0	0	N/A N/A	0.000

Authorized Signature: \_\_\_\_\_

Jon Swope, Analyst

### NOTES

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August 1, 2019

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to again provide Specialty Granules with industrial hygiene services. On June 18 and 19, 2019, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On June 18 and 19, 2019, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. One of the area samples was not submitted for analysis due to overloading of the filter. Samples were collected and analyzed in general accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 2%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.

All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-061819-07	Old Gyro Building Floor 1	<0.001	0.1
SGC-061819-08	Old Gyro Building Floor 2	<0.001	0.1
SGC-061819-09	330 & 310 Crusher	<0.002	0.1
SGC-061819-10	979 Belt Floor 2	0.002	0.1
SGC-061819-11	5 1/2 Crusher	<0.002	0.1
SGC-061819-12	5 1/2 Crusher	0.008	0.1
SGC-061819-13	330 & 310 Crusher	<0.002	0.1
SGC-061919-07	Old Gyro Building Floor 1	<0.001	0.1
SGC-061919-08	Old Gyro Building Floor 2	<0.001	0.1
SGC-061919-09	330 & 310 Crusher	0.002	0.1
SGC-061919-11	5 1/2 Crusher	<0.002	0.1
SGC-061919-12	5 1/2 Crusher	0.004	0.1
SGC-061919-13	330 & 310 Crusher	<0.002	0.1

All sample results were well below the MSHA PEL. Four samples had detectable amounts of fibrous minerals, which the laboratory identified as amphibole. All blank samples were reported as non-detect.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:

A handwritten signature in black ink, appearing to read "Andrew D. Duane". The signature is fluid and cursive, with the first name "Andrew" being more prominent and the last name "Duane" following in a similar style.

Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Analytical Reports**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Chemistry & Industrial Hygiene  
 10201 W 43rd Avenue  
 Wheat Ridge, CO 80033  
 US

Report Date: 07/08/2019  
 Sample Receipt Date: 06/24/2019  
 RJ Lee Group Job No.: CUH1054391-0  
 Authorization/P.O. No.: CH 62754  
 Samples Received: 15  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-061819-07	10480796.HT		385	1	472	0.36185	0	0	30	$\frac{\leq 0.001}{0.001}$	0.000
SGC-061819-08	10480797.HT		385	1	475	0.36185	0	0	11.5	$\frac{\leq 0.001}{0.001}$	0.000
SGC-061819-09	10480798.HT		385	1	222	0.36185	0	0	21	$\frac{\leq 0.002}{0.002}$	0.000
SGC-061819-10	10480799.HT		385	1	482	0.36185	0	1	19.5	$\frac{0.002}{0.001}$	0.049

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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: CUH1054391-0  
Client Job No/Name:

Client: Chemistry & Industrial Hygiene  
Report Date: 07/08/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity (f/cc)	Ratio (f/F)
							Chry	Amph	NAS		
SGC-061819-11	10480800.HT		385	1	236	0.36185	0	0	42	$\frac{\leq 0.002}{0.002}$	0.000
SGC-061819-12	10480801.HT		385	1	264	0.36185	0	2	27.5	$\frac{0.008}{0.002}$	0.068
SGC-061819-13	10480802.HT		385	1	253	0.36185	0	0	66	$\frac{\leq 0.002}{0.002}$	0.000
SGC-061819-14	10480803.HT		385	1	479	0.36185	0	0	0	$\frac{\leq 0.001}{0.001}$	0.000
SGC-061919-07	10480804.HT		385	1	480	0.36185	0	0	11.5	$\frac{\leq 0.001}{0.001}$	0.000
SGC-061919-08	10480805.HT		385	1	480	0.36185	0	0	34	$\frac{\leq 0.001}{0.001}$	0.000
SGC-061919-09	10480806.HT		385	1	238	0.36185	0	0.5	11	$\frac{0.002}{0.002}$	0.043
SGC-061919-11	10480807.HT		385	1	242	0.36185	0	0	5	$\frac{\leq 0.002}{0.002}$	0.000
SGC-061919-12	10480808.HT		385	1	261	0.36185	0	1	15	$\frac{0.004}{0.002}$	0.063
SGC-061919-13	10480809.HT		385	1	253	0.36185	0	0	19	$\frac{\leq 0.002}{0.002}$	0.000
SGC-061919-14	10480810.HT		385	1	249	0.36185	0	0	0	$\frac{\leq 0.002}{0.002}$	0.000

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# RJ Lee Group, Inc.

RJ Lee Group Job No: CUH1054391-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene  
Report Date: 07/08/2019

Authorized Signature: \_\_\_\_\_



Monica McGrath-Koerner, Scientist

### NOTES

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**APPENDIX B:**  
**Field Data Sheets**

[illegible]

# Request for Environmental and IH Laboratory Analytical Services



**RJ LEE GROUP**  
DELIVERING SCIENTIFIC RESULTS

## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 08/20/2019  
 Sample Receipt Date: 08/14/2019  
 RJ Lee Group Job No.: ATH1055036-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582430	10484956.HT		385	1	185.04	0.37982	0	1	9	<u>0.005</u> 0.003	0.100
DF582330	10484957.HT		385	1	181.86	0.37982	0	1	25.5	<u>0.006</u> 0.003	0.038
DF582341	10484958.HT		385	1	181.15	0.37982	0	0	22	<u>&lt; 0.003</u> 0.003	0.000
DF582346	10484959.HT		385	1	157.72	0.37982	0	0	6	<u>&lt; 0.003</u> 0.003	0.000

#### NOTES

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- "<" indicates results less than analytical sensitivity. "---" indicates that sample was not analyzed.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1055036-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 08/20/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582405	10484960.HT		385	1	142.96	0.37982	0	0	16	$\leq \frac{0.004}{0.004}$	0.000
DF582525	10484961.HT		385	1	181.16	0.37982	0	0	11.5	$\leq \frac{0.003}{0.003}$	0.000
DF582664	10484962.HT		385	1	140.39	0.37982	0	0	14	$\leq \frac{0.004}{0.004}$	0.000
DF582376	10484963.HT		385	1	184.30	0.37982	0	0	5.5	$\leq \frac{0.003}{0.003}$	0.000
DF582375	10484964.HT		385	1	0	0.37982	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature:



Monica McGrath-Koerner, Scientist

### NOTES

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## Final Laboratory Report

### TEM Air Analysis

Attention: Roger Kibler  
 Specialty Granules Inc  
 1324 Pennsylvania Avenue  
 Suite 303  
 Hagerstown, MD 21742  
 US

Report Date: 08/29/2019  
 Sample Receipt Date: 08/23/2019  
 RJ Lee Group Job No.: ATH1055182-0  
 Authorization/P.O. No.: CH62753  
 Samples Received: 9  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582407	10485953.HT		385	1	843.00	0.36234	0	1	17	<u>0.001</u> 0.001	0.056
DF582345	10485954.HT		385	1	816.00	0.36234	0	0	6	<u>&lt; 0.001</u> 0.001	0.000
DF582339	10485955.HT		385	1	833.00	0.36234	0	0	4.5	<u>&lt; 0.001</u> 0.001	0.000
DF582429	10485956.HT	O/L - Not Analyzed	---	---	---	---	---	---	---	---	---

#### NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1055182-0  
Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Specialty Granules Inc  
Report Date: 08/29/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----		---Non---	Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
DF582347	10485957.HT	O/L - Not Analyzed	---	---	---	---	---	---	---	---	---
DF582336	10485958.HT		385	1	864.00	0.36234	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
DF582324	10485959.HT		385	1	730.00	0.36234	0	0	12.5	$\leq \frac{0.001}{0.001}$	0.000
DF582348	10485960.HT		385	1	715.00	0.36234	0	0	2	$\leq \frac{0.001}{0.001}$	0.000
DF582361	10485961.HT		385	1	0	0.36234	0	0	0	$\frac{N/A}{N/A}$	0.000

Authorized Signature:



Monica McGrath-Koerner, Scientist

### NOTES

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November 7, 2019

Casey Doolan  
Corporate EHS Manager  
Specialty Granules  
13424 Pennsylvania Avenue  
Suite 303  
Hagerstown, MD 21742

**Re: Specialty Granules Fibrous Aerosol Assessment, Charmian Plant, 1455 Old Waynesboro Road in Blue Ridge Summit, Pennsylvania**

Dear Mr. Doolan:

Thank you for giving Chemistry & Industrial Hygiene, Inc. (C&IH) the opportunity to again provide Specialty Granules with industrial hygiene services. On September 17 and 18, 2019, C&IH visited the Specialty Granules Charmian Plant in Blue Ridge Summit, Pennsylvania (Site). The purpose of our visit was to perform air sampling and noise monitoring in designated production locations. This letter describes the results of the fibrous aerosol sampling that was performed at the Site. The report documenting the respirable dust sampling and noise monitoring can be found under separate cover.

On September 17 and 18, 2019, C&IH employee Andrew Duane collected a total of 16 fibrous aerosol samples, including 14 area samples and two sample blanks. One of the area samples was not submitted for analysis due to overloading of the filter (SGC-091719-11). Samples were collected and analyzed in general accordance with National Institute of Occupational Safety and Health (NIOSH) Method 7402, *Asbestos by TEM*. All pumps were calibrated at a flow rate of approximately 2 liters per minute with a primary calibration device (Bios DryCal) prior to and following the sampling periods to verify flow consistency. No beginning and ending flow rate differences were greater than +/- 3%. Atmospheric pressure and temperature corrections for total air volumes were not applied, as the pumps were calibrated at the same elevation as the sampling.

RJ Lee Group, Inc. (RJLG) performed analysis of the fibrous aerosol samples. RJLG is accredited by the American Industrial Hygiene Association as being proficient in performing these types of analyses. Copies of the analytical reports are found in Appendix A.

All area samples were collected during active operations representative of typical working conditions to evaluate the potential time-weighted average (TWA) exposures to asbestos fibers in those production areas. Samples were collected for approximately two to four hours. Sampling time and volumes were limited in an effort to prevent overloading the sample cassettes. Back-to-back (sequential) samples were collected from the crusher areas due to the very short duration (approximately two hours) of these samples. C&IH field data sheets can be found in Appendix B.



All results are reported in asbestos fibers per cubic centimeter of air (f/cc) per the fiber definition provided in NIOSH Method 7402. The Mine Safety and Health Administration (MSHA) compliance-based TWA permissible exposure limit (PEL) for asbestos is 0.1 f/cc for all fiber types meeting the counting criteria. Results of the sampling are provided in Table 1.

**Table 1:**  
**Asbestos Area Sample Results (f/cc)**

Sample ID	Sample Location	Result	MSHA PEL
SGC-091719-07	Old Gyro Building Floor 1	<0.001	0.1
SGC-091719-08	Old Gyro Building Floor 2	<0.001	0.1
SGC-091719-09	330 & 310 Crusher	<0.002	0.1
SGC-091719-10	979 Belt Floor 2	<0.001	0.1
SGC-091719-12	5 1/2 Crusher	<0.002	0.1
SGC-091719-13	330 & 310 Crusher	<0.002	0.1
SGC-091819-07	Old Gyro Building Floor 1	<0.001	0.1
SGC-091819-08	Old Gyro Building Floor 2	<0.001	0.1
SGC-091819-09	330 & 310 Crusher	<0.002	0.1
SGC-091819-10	979 Belt Floor 2	<0.001	0.1
SGC-091819-11	5 1/2 Crusher	<0.002	0.1
SGC-091819-12	5 1/2 Crusher	<0.002	0.1
SGC-091819-13	330 & 310 Crusher	<0.002	0.1

All sample results were well below the MSHA PEL. All blank samples were reported as non-detect.

C&IH recommends continuing to limit the sample volumes during future sampling in order to prevent sample overloading.

## Limitations

C&IH has performed our services in a manner consistent with generally-accepted industrial hygiene consulting practices applicable to the services rendered. However, the conditions observed at the time of the inspection may change and may not fully represent conditions at a future date or differing work parameters. All comments provided by C&IH are based on the conditions and data collected at the time of the on-site activity. C&IH is not responsible for misrepresented, unknown, or unknowable conditions within the existing Project Site or structures, or conditions outside the scope of work.

If you have any questions regarding this report, please call (303) 420-8242.

Sincerely,

CHEMISTRY & INDUSTRIAL HYGIENE, INC.

Author:



Andrew D. Duane, CIH  
Managing Director of Industrial Hygiene Services

Reviewed by:



Robert D. Strode, MS, CIH  
Technical Director of Industrial Hygiene Services

**APPENDIX A:**  
**Laboratory Analytical Reports**

## Final Laboratory Report

### TEM Air Analysis

Attention: Andrew Duane  
 Chemistry & Industrial Hygiene  
 10201 W 43rd Ave  
 Wheat Ridge, CO 80033  
 US

Report Date: 10/09/2019  
 Sample Receipt Date: 09/25/2019  
 RJ Lee Group Job No.: ATH1055543-0  
 Authorization/P.O. No.: CH62754  
 Samples Received: 15  
 Client Job No.:

Method: NIOSH Method 7402, Issue #2, 8/15/94

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration	Ratio
							Chry	Amph	NAS	Sensitivity (f/cc)	(f/F)
SGC-091719-07	10488352.HT		385	1	465	0.36404	0	0	1	$\leq \frac{0.001}{0.001}$	0.000
SGC-091719-08	10488353.HT		385	1	471	0.36404	0	0	11.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-091719-09	10488354.HT		385	1	229	0.36404	0	0	11.5	$\leq \frac{0.002}{0.002}$	0.000
SGC-091719-10	10488355.HT		385	1	464	0.36404	0	0	4	$\leq \frac{0.001}{0.001}$	0.000

#### NOTES

- Volumes provided by the client listed above were used to calculate analytical results and sensitivities.
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- Abbreviations: N/A-Not Applicable, O/L-Overloaded, Chry-Chrysotile Asbestos, Amph-Amphibole Asbestos, NAS-Non-Asbestos Structures, f-Asbestos Fibers, F-Total Fibers.
- Samples will be held for 90 days and then disposed of per Federal regulations.
- Sample(s) for this project were analyzed at our Monroeville, PA (NVLAP Lab Code 101208-0, NY ELAP #10884) facility.
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# RJ Lee Group, Inc.

## Final Laboratory Report (cont'd)

RJ Lee Group Job No: ATH1055543-0  
Client Job No/Name:

Client: Chemistry & Industrial Hygiene  
Report Date: 10/09/2019

Client Sample Number	RJLG Sample Number	Sample Description	Filter Area (mm <sup>2</sup> )	Dilution	Volume (liter)	Area Analyzed (mm <sup>2</sup> )	-----Fibers (f)-----			Asbestos Concentration	
							-----Asbestos-----	---Non---		Concentration Sensitivity	Ratio
							Chry	Amph	NAS	(f/cc)	(f/F)
SGC-091719-12	10488356.HT		385	1	230	0.36404	0	0	9	$\leq \frac{0.002}{0.002}$	0.000
SGC-091719-13	10488357.HT		385	1	241	0.36404	0	0	16	$\leq \frac{0.002}{0.002}$	0.000
SGC-091719-14	10488358.HT		385	1	472	0.36404	0	0	0	$\leq \frac{0.001}{0.001}$	0.000
SGC-091819-07	10488359.HT		385	1	502	0.36404	0	0	7.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-091819-08	10488360.HT		385	1	508	0.36404	0	0	16.5	$\leq \frac{0.001}{0.001}$	0.000
SGC-091819-09	10488361.HT		385	1	253	0.36404	0	0	19.5	$\leq \frac{0.002}{0.002}$	0.000
SGC-091819-10	10488362.HT		385	1	500	0.36404	0	0	24	$\leq \frac{0.001}{0.001}$	0.000
SGC-091819-11	10488363.HT		385	1	249	0.36404	0	0	9	$\leq \frac{0.002}{0.002}$	0.000
SGC-091819-12	10488364.HT		385	1	255	0.36404	0	0	17	$\leq \frac{0.002}{0.002}$	0.000
SGC-091819-13	10488365.HT		385	1	261	0.36404	0	0	21.5	$\leq \frac{0.002}{0.002}$	0.000
SGC-091819-14	10488366.HT		385	1	252	0.36404	0	0	0	$\leq \frac{0.002}{0.002}$	0.000

### NOTES

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# RJ Lee Group, Inc.

RJ Lee Group Job No: ATH1055543-0

Client Job No/Name:

## Final Laboratory Report (cont'd)

Client: Chemistry & Industrial Hygiene

Report Date: 10/09/2019

Authorized Signature: \_\_\_\_\_



Ashleigh Sload, Scientist

### NOTES

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**APPENDIX B:**  
**Field Data Sheets**

[illegible]