

Lehigh Southwest Cement Company
Permanente Plant
24001 Stevens Creek Boulevard
Phone (408) 996-4000
Fax (408) 725-1019
www.lehighcement.com

Director, Compliance and Enforcement
Bay Area Air Quality Management District
375 Beale Street
San Francisco, CA 94105
Attn: Title V Reports

January 31, 2018

Subject: **Major Facility Review Permit Report of Required Monitoring
Period July 1, 2017 to December 31, 2017 Lehigh Southwest Cement Company
BAAQMD Facility ID # A0017**

Dear Sir/Madam:

Attached please find Lehigh Southwest Cement Company (LSCC) semiannual Report of Required Monitoring to satisfy BAAQMD Regulation 2-6-502, Monitoring Report, Major Facility Review Report, Regulation 3, Fees, and MOP Volume II, Part 3, §4.7, Recordkeeping and Reporting Requirements, for the Permanente Plant located at 24001 Stevens Creek Blvd., Cupertino, CA 95014. The enclosed report represents the reporting period July 1, 2017 through December 31, 2017, and consists of the Deviation Report and the Report of Required Monitoring.

I certify that, based on information and belief formed after reasonable inquiry, the statements and information contained in this report is true, accurate, and complete.

Name: (Print) Chow Yip



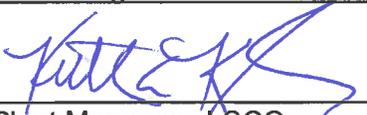
Signature: _____

Title: Environmental Engineer – LSCC

Date: January 31, 2018

Responsible Official:

Name: (Print) Keith Krugh



Signature: _____

Title: Plant Manager – LSCC

Date: January 31, 2018

Lehigh Southwest Cement Company
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring Deviation Report for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018

Page 1 of 1

BAAQMD Source #	Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Actual Excess	Period of Excess (Date and Time)	Comments (causes, corrective actions, etc.)
S-154	SO2	BAAQMD cond # 2786, part A(1)	SO2 emissions shall not exceed 481 lbs/hr, averaged over the 24 hour calendar day.	BAAQMD cond # 2786, part A(3)	C	501 lb/hr	July 25, 2017. The SO2 24 hour average exceeded the daily limit.	Indicated excess SO2 emission on July 25, 2017 due to annual compliance test with both Raw Mills in the off condition for over 12 hours. RCA 07E01 was generated and submitted to the BAAQMD.
S-154	Opacity	40 CFR, Subpart LLL, §63.1343 (b)(2)	20% opacity	No	C	Greater than 10%	August 01, 2017 @ 09:50 am.	NOV # A56536, issued on August 03, 2017 for visible emissions exceed 10% opacity. The lower opacity limit is due to coke mills & KMDC stacks combined.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 1 of 71

Table - A									
S-1 GASOLINE DISPENSING STATION									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 7523, part 1	Gasoline Dispensing throughput not to exceed 400,000 gallons/year	BAAQMD 8-7-503.1 & 8-7-503.2	P/M	Record keeping		NONE TO REPORT		
Exempt Throughput	BAAQMD 8-7-114	Maximum amount exempt from Phase 1 is: 1000 gallons per facility for tank integrity leak checking	BAAQMD 8-7-501 and 8-7-503.2	P/E	Records		NONE TO REPORT		
Organic Compounds	BAAQMD 8-7-301.6	All Phase I Equipment (except components with allowable leak rates) shall be leak free (≤ 3 drops/minute) and vapor tight	BAAQMD 8-7-301.13 and 8-7-407	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System		NONE TO REPORT		
Organic Compounds	BAAQMD 8-7-302.5	All Phase II Equipment (except components with allowable leak rates or at the nozzle/fill-pipe interface) Shall Be: leak free (≤ 3 drops/minute) and vapor tight	BAAQMD 8-7-301.13 and 8-7-407	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 2 of 71

Table - A									
S-1 GASOLINE DISPENSING STATION									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Organic Compounds	BAAQMD 8-7-301.13	1.0 ml per nozzle per test or the quantity specified in CARB Certification Procedure CP-201, whichever is less	BAAQMD 8-7-301.13 and 8-7-407	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System		NONE TO REPORT		
Disconnection Liquid Leaks	CARB EO G-70-116-F, paragraph 12	10 ml per disconnect, averaged over 3 disconnect operations	CARB EO G-70-116-F, paragraph 19 and (effective 6/1/03) BAAQMD 8-7-301.13 and 8-7-407	P/A	Annual Check for Vapor Tightness and Proper Operation of Vapor Recovery System		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 3 of 71

Table - B
S-17 CLINKER TRANSFER AREA ABATED BY A-436 DUST COLLECTOR (6-DC-49)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 16109, part 2	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD cond # 16109, part 1	Ringelmann 0.5 or 10% opacity	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process weight limit	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 16109, part 3	0.006 gr/dscf	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 4 of 71

Table - B
S-17 CLINKER TRANSFER AREA ABATED BY A-436 DUST COLLECTOR (6-DC-49)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 16109, part 5	Cement loads not to exceed 70,000 trucks/year	BAAQMD cond # 16109, part 6	P/M	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 5 of 71

Table - C									
S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6-DC-52), A-449 (6-DC-53), AND A-450 (6-DC-54) DUST COLLECTORS									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 18475, parts 2 & 4	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1 for A-10	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	BAAQMD cond # 18475, part 5	Ringelmann 0.5 or 10% opacity	BAAQMD cond # 18475, parts 2 & 4 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 18475, part 2 & 4 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 6 of 71

Table - C									
S-19 CLINKER STORAGE AREA ABATED BY A-10 (6-DC-45-48), A-447 (6-DC-51), A-448 (6-DC-52), A-449 (6-DC-53), AND A-450 (6-DC-54) DUST COLLECTORS									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Throughput	BAAQMD cond # 18475, part 1	Material stored not to exceed 1.75 million tons/year	BAAQMD cond # 18475, part 6	P/M	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 7 of 71

Table - D

S-45 WEST SILO TOP CEMENT DISTRIBUTION TOWER ABATED BY A-433 DUST COLLECTOR (7-DC-05),
S-46 MIDDLE SILO TOP DISTRIBUTION TOWER ABATED BY A-434 DUST COLLECTOR (7-DC-06),
S-47 EAST SILO TOP DISTRIBUTION TOWER ABATED BY A-435 DUST COLLECTOR (7-DC-07),
S-48 BULK CEMENT LOADOUT TANK #1 & 2 ABATED BY A-420, A-421, A-422, AND A-428 DUST COLLECTORS,
S-49 BULK CEMENT LOADOUT TANK #28 ABATED BY A-423, A-424, A-427, AND A-429 DUST COLLECTORS,
S-50 BULK CEMENT LOADOUT TANK #29 ABATED BY A-425, A-426, A-427, AND A-429 DUST COLLECTORS,
S-54 CEMENT PACKER #1 ABATED BY A-430 DUST COLLECTOR (7-PDC-01),
S-55 CEMENT PACKER #2 ABATED BY A-431 DUST COLLECTOR (7-PDC-02),

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 16109, part 2	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD cond # 16109, part 1	Ringelmann 0.5 or 10% opacity	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		N/A for this reporting period		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 8 of 71

Table - D

S-45 WEST SILO TOP CEMENT DISTRIBUTION TOWER ABATED BY A-433 DUST COLLECTOR (7-DC-05),
S-46 MIDDLE SILO TOP DISTRIBUTION TOWER ABATED BY A-434 DUST COLLECTOR (7-DC-06),
S-47 EAST SILO TOP DISTRIBUTION TOWER ABATED BY A-435 DUST COLLECTOR (7-DC-07),
S-48 BULK CEMENT LOADOUT TANK #1 & 2 ABATED BY A-420, A-421, A-422, AND A-428 DUST COLLECTORS,
S-49 BULK CEMENT LOADOUT TANK #28 ABATED BY A-423, A-424, A-427, AND A-429 DUST COLLECTORS,
S-50 BULK CEMENT LOADOUT TANK #29 ABATED BY A-425, A-426, A-427, AND A-429 DUST COLLECTORS,
S-54 CEMENT PACKER #1 ABATED BY A-430 DUST COLLECTOR (7-PDC-01),
S-55 CEMENT PACKER #2 ABATED BY A-431 DUST COLLECTOR (7-PDC-02),

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 16109, part 3	0.006 gr/dscf	BAAQMD cond # 16109, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Throughput	BAAQMD cond # 16109, part 5	Cement loads not to exceed 70,000 trucks/year	BAAQMD cond # 16109, part 6	P/M	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 9 of 71

Table - F
S-74 TYPE II MECHANICAL TRANSFER SYSTEM ABATED BY A-58 DUST COLLECTOR (7-DC-8)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 6655, part 1	Ringelmann 0.5 or 10% opacity	BAAQMD cond # 6655, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process weight limit	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 6655, part 4	0.006 gr/dscf	BAAQMD cond # 6655, part 3 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Throughput	BAAQMD cond # 6655, part 8	Cement throughput not to exceed 1.6 MM tons/yr	BAAQMD cond # 6655, part 9	P/D	Log / Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 10 of 71

Table - F
S-74 TYPE II MECHANICAL TRANSFER SYSTEM ABATED BY A-58 DUST COLLECTOR (7-DC-8)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Record keeping	BAAQMD cond # 6655, part 6	Hours of operation 6656 per year	BAAQMD cond # 6655, part 9	P/D	Log / Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 11 of 71

Table – G									
S-111 RAIL UNLOADING SYSTEM ABATED BY A-111 DUST COLLECTOR (1-DC-1),									
S-112 ADDITIVE HOPPER TRANSFER SYSTEM ABATED BY A-112 DUST COLLECTOR (1-DC-2),									
S-113 ADDITIVE BIN TRANSFER FACILITIES ABATED BY A-113 (1-DC-3) AND A-114 (1-DC-4) DUST COLLECTORS, S-115 ADDITIVE									
STORAGE ABATED BY A-115 (1-DC-5) DUST COLLECTOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR, Subpart Y, §60.252 (c)	20% opacity		N			NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Through-put	BAAQMD cond # 2786 part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786 part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 12 of 71

Table – H

S-121 TERTIARY SCALPING SCREEN (2-VS-1-2) ABATED BY A-121 DUST COLLECTOR,
S-122 TERTIARY CRUSHER (2-CR-1) ABATED BY A-121 AND A-122 DUST COLLECTORS,
S-123 ROCK CONVEYING SYSTEM ABATED BY A-122 AND A-123 DUST COLLECTORS,
S-131 ROCK SAMPLING SYSTEM ABATED BY A-131 DUST COLLECTOR,
S-132 PREBLEND ABATED BY A-132 DUST COLLECTOR,S-134 PREBLEND STORAGE BIN (4-S-1-2) ABATED BY A-134 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Through-put	BAAQMD cond # 2786 part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786 part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 13 of 71

Table – I									
S-135 HIGHGRADE STORAGE BIN (4-S-3-4) ABATED BY A-135 DUST COLLECTOR,									
S-151 HOMOGENIZER (5-S-1-2) ABATED BY A-151 AND A-152 DUST COLLECTORS,									
S-153 KILN FEED SYSTEM ABATED BY A-153 DUST COLLECTOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure Drop Monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Through-put	BAAQMD cond # 2786 part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786 part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 14 of 71

Table - J									
S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR,									
S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1 for A-171 & A-172	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR, Subpart LLL, §63.1343 (b)(1)	10% opacity	§63.1350(f)	P/D	Visual inspection (M9)		NONE TO REPORT		
			§63.1349(b)(2)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond #11780 part E BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 15 of 71

Table - J									
S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR,									
S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
SO2	BAAQMD 9-1-301	0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours		N			NONE TO REPORT		
SO2	BAAQMD 9-1-302	300 ppm (dry)		N			NONE TO REPORT		
SO2	BAAQMD cond # 2786, part A (1)	Rejection of 90% of the sulfur in the raw feed plus fuel, not requiring 0.6% sulfur coal as the fuel or 481 lb/hr averaged over the 24 hour day	BAAQMD cond # 2786, part A 3	C	Instack monitoring system		NONE TO REPORT		
PM	BAAQMD cond #2786 part B (1)	36 lb/hr and 0.02 gr/SDCF	BAAQMD cond #2786 part C BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 16 of 71

Table - J									
S-141 RAW MILL (4-GM-1) ABATED BY A-141 DUST COLLECTOR,									
S-142 RAW MILL 2 (4-GM-2) ABATED BY A-142 DUST COLLECTOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Emission limitation	BAAQMD cond #11780, part C (3)	Emission not to exceed 2.3 lb/ton of clinker on a 30-operating day rolling average	BAAQMD cond #11780, part E (1 & 2)	P/D	CEMS/ Record keeping		NONE TO REPORT		
Throughput	BAAQMD cond #2786, part D cond #11780, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond #11780 part E	P/D	Record keeping		NONE TO REPORT		
Temperature	40CFR63.1343 (b)(3)(ii), 40CFR63.1344 (a),(b) and 40CFR63.1349 (b)(3)(ii)	≤ 200 °C RM on ≤ 200 °C RM off	40CFR63.1350(f)	C	Temperature Readings	S-141 S-142 S-154	Temperature exceedance reported in NESHAP semi annual summary report for reporting period Jan 1, 2017 to Jun 30, 2017. Next report for period due Jul. 2017.		NESHAP VEE Test report and PM test conducted in Nov / Dec 2012 and submitted to BAAQMD

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 17 of 71

Table - K
S-143 RAW MILL 1 SEPARATOR SYSTEM (4-SE-3) ABATED BY A-143 DUST COLLECTOR,
S-144 RAW MILL 2 SEPARATOR CIRCUIT (4-SE-4) ABATED BY A-144 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 2786, part F	P/Q	Triboflow leak detector		N/A		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 2786, part F	Ringelmann 0.5	BAAQMD cond # 2786, part F	P/Q	Triboflow leak detector		N/A		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 2786, part F	P/Q	Triboflow leak detector		N/A		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 18 of 71

Table - L									
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1 for A-171 & A-172	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	BAAQMD 6-307	Ringelmann 1.0	BAAQMD cond # 20753, part 2 for A-141 & A-142	P/D	Visual inspection (M9)		NONE TO REPORT		
Opacity	40 CFR, Subpart LLL, §63.1343 (b)(2)	20% opacity	§63.1350(c)(2)	P/D	Visual inspection (M9)		August 1, 2017 @ 09:50 am.		NOV # A56536, issued on August 03, 2017 for visible emissions exceed 10% opacity. The lower opacity limit is due to coke mills & KMDC stacks combined.
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond #11780 part E BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 19 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 20 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
HCl	BAAQMD cond # 603, part 11	Emission not to exceed 3 ppmv at 7% Oxygen over 30-operating day rolling average; or use the parametric monitor of HCl by not operating below 2.8 ton of dry/slurry lime injection per day, over 30-operating day rolling average	BAAQMD cond # 603, part 11	C	CEMS/ Record keeping		NONE TO REPORT		
Hg	BAAQMD cond # 603, part 16	Emission not to exceed 55 lbs/million tons of clinker produced (30-operating day rolling average); 88 lb/yr (12- month rolling average)	BAAQMD cond # 603, part 16	C	CEMS/ Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 21 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
THC	BAAQMD cond # 603, part 21	Emission not to exceed 12 ppmv of total organic HAPs at 7% Oxygen over 30-Operating day rolling average or use the total hydrocarbon (THC) CEMS as a parametric monitor for the total organic HAPs, not to exceed 322 ppmv of THC over 30-operating day rolling average		C	CEMS/ Record keeping		NONE TO REPORT		
SO2	BAAQMD 9-1-301	0.5 ppm continuously for 3 consecutive minutes or 0.25 ppm averaged over 60 consecutive minutes, or 0.05 ppm averaged over 24 hours		N			NONE TO REPORT		
SO2	BAAQMD 9-1-302	300 ppm (dry)		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 22 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
NOx	BAAQMD cond #11780, part C (3)	Emission not to exceed 2.3 lb/ton of clinker on a 30-operating day rolling average	BAAQMD cond #11780, part E (1 & 2)	P/D	CEMS/ Record keeping		NONE TO REPORT		
NH3	BAAQMD cond #11780, part C (4)	Emission not to exceed 270 ppmv at 7% Oxygen on 6 month, 24-hour rolling average (or 182-day rolling average)	BAAQMD cond #11780, part C (4)	P/D	CEMS/ Record keeping		NONE TO REPORT		
Log record keeping	BAAQMD Reg 2 Rule 6 Section 307	Not Applicable	Not Applicable	N	Log/ Record keeping		NONE TO REPORT		
Ammonia Hydroxide	BAAQMD cond #11780, part B (2)	Throughput not to exceed 2,450,000 gallons in any calendar year.	BAAQMD cond #11780, part B (2)Not Applicable	P/D	Record keeping		NONE TO REPORT		
Ammonia Hydroxide	BAAQMD cond #11780, part B (3)	Not to exceed 410 Ammonia Hydroxide delivery trucks in any consecutive 12 month period	BAAQMD cond #11780, part B (3)	P/D	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 23 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Log record keeping	Enhanced Emissions Monitoring Agreement	Not Applicable	Not Applicable	P/Monthly and Quarterly	Record keeping		NONE TO REPORT	Not Applicable.	
SO2	BAAQMD cond # 2786, part A(1)	SO2 emissions shall not exceed 481 lbs/hr, averaged over the 24 hour calendar day.	BAAQMD cond # 2786, part A (3)	C	In stack monitoring system		July 25, 2017 00:00 to July 26, 2017 00:00	501 lb/hr	Indicated excess SO2 emission on July 25, 2017 due to annual compliance test with both Raw Mills in the off condition for over 12 hours. RCA 07E01 was generated and submitted to the BAAQMD.
PM	BAAQMD cond #2786 part B (1)	36 lb/hr and 0.02 gr/SDCF for S-111, 112, 113, 115, 121, 122, 123, 132, ,	BAAQMD cond #2786 part C BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Throughput	BAAQMD cond #2786, part D cond #11780, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond #11780 part E	P/D	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 24 of 71

Table - L
S-154 PRECALCINER KILN ABATED BY A-141 AND A-142 DUST COLLECTORS, AND A-171 AND A-172 BAGHOUSES

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PM	40 CFR, Subpart LLL §63.1343 (b)(1)	0.3 lb/ton dry feed	§63.1349(c)	P/every 5 years	Periodic source test (M5)		NONE TO REPORT		NESHAP VEE Test report and PM test conducted in Nov / Dec 2012 and submitted to BAAQMD
D/F	40 CFR Subpart LLL 63.1343(b)(3) (ii)	8.7×10 ⁻¹¹ gr/dscf @ 7% O ₂	§63.1349(d)	P/every 2.5 years	Periodic source test (M23)		NONE TO REPORT		Test conducted in Nov / Dec 2012 and submitted to BAAQMD
Temperature	40CFR63.1343 (b)(3)(ii), 40CFR63.1344 (a),(b) and 40CFR63.1349 (b)(3)(ii)	≤ 200 °C RM on ≤ 200 °C RM off	40CFR63.1350(f)	C	Temperature Readings		Temperature exceedance reported in NESHAP semi-annual summary report for reporting period Jan 1, 2017 to Jun 30 2017.		Test conducted in Nov / Dec 2012 and submitted to BAAQMD

Note: (M#) equals 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 25 of 71

Table - M									
S-161 Clinker Cooler (5-CC-1) ABATED BY A-161									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1 for A-190	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 2 for A-161	P/D	Visual inspection (M9)		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1345(a)(2)	10%	§63.1350(d)(2)	P/D	Visual inspection (M9)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
FP	BAAQMD cond #2786, part B (3)	8 lb/hr and 0.01 gr/dscf	BAAQMD cond #2786, part C BAAQMD cond # 20751, part 3a	P/M	Pressure drop monitoring		NONE TO REPORT		
Throughput	BAAQMD cond #2786, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond #2786, part D	P/D	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 26 of 71

Table - M									
S-161 Clinker Cooler (5-CC-1) ABATED BY A-161									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Emission limit	40 CFR, Subpart LLL, § 63.1342 & § 63.1345	PM not to exceed 0.050 kg/metric ton of feed (dry basis)	40 CFR, Subpart LLL § 63.1349 § 63.1350	P/ every 2.5 years	Source test (M5)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	40 CFR Subpart LLL, §63.1345(a) (1)	0.1 lb/ton dry feed	§63.1349(c)	P/every 2.5 years	Periodic source test (M5)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 27 of 71

Table – N									
S-162 CLINKER SILO (5-S-11) ABATED BY A-162 DUST COLLECTOR,									
S-163 CLINKER SILO (5-S-12) ABATED BY A-163 DUST COLLECTOR,									
S-164 FREELIME STORAGE BIN ABATED BY A-164 DUST COLLECTOR									
S-165 CLINKER TRANSFER SYSTEM ABATED BY A-165 DUST COLLECTOR AND A-190 DUST COLLECTORS									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a)(4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Throughput	BAAQMD cond # 2786, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786, part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 28 of 71

Table - O
S-171 KILN COAL SYSTEM ABATED BY A-171 BAGHOUSE, PULSE JET DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 804, part 1 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR, Subpart Y, § 60.252 (c)	20% opacity		N			NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 804, part 1 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process Weight	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 804, part 2	Particulates not to exceed 3.3 lbs/hr	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM10	BAAQMD cond # 2786, part B (2)	6.6 lb/hr and 0.02 gr/dscf	BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 29 of 71

Table - O
S-171 KILN COAL SYSTEM ABATED BY A-171 BAGHOUSE, PULSE JET DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 2786, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786, part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 30 of 71

Table - P
S-172 PRECALCINER COAL MILL ABATED BY A-172 BAGHOUSE, PULSE JET DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR, Subpart Y, § 60.252 (c)	20% opacity		N			NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 1004, part 1 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process Weight	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 1004, part 2	Particulates not to exceed 3.3 lbs/hr	BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM10	BAAQMD cond # 2786, part B (2)	6.6 lb/hr and 0.02 gr/dscf	BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 31 of 71

Table - P
S-172 PRECALCINER COAL MILL ABATED BY A-172 BAGHOUSE, PULSE JET DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PM10	BAAQMD cond # 2786, part B (2)	6.6 lb/hr and 0.02 gr/dscf	BAAQMD cond # 2786, part C BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Throughput	BAAQMD cond # 2786, part D	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 2786, part D	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 32 of 71

Table - R
S-176 ROCK PLANT 1 STORAGE PILE

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 33 of 71

Table - S									
S-187 (S-387) HOPPER AND STORAGE BIN									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0		N			NONE TO REPORT		
Opacity	40 CFR Subpart OOO §60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO §60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		N			NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 34 of 71

Table - T									
S-201 PRIMARY CRUSHER, S-202 SECONDARY CRUSHER									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-307	Ringelmann 1.0 (20% Opacity)		N			NONE TO REPORT		
Opacity	BAAQMD cond # 805, part 1	Ringelmann 1.0 (20% Opacity)		N			NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		N			NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 35 of 71

Table – U
S-210 FINISH MILL (6-GM-1) ABATED BY A-210 DUST COLLECTOR (6-DC-17)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 779, parts 1 & 4	C	COMS		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 779, parts 1 & 4	C	COMS		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Opacity	BAAQMD cond # 779, parts 1 & 4	No visible fugitive emission from circuit	BAAQMD cond # 779, parts 1 & 4	C	COMS		NONE TO REPORT		
Emission limit	BAAQMD cond # 779, part 2	0.006 gr/dscf or 0.9 lbs/hr	BAAQMD cond # 779, part 5	C	COMS		NONE TO REPORT		
Throughput	BAAQMD cond # 779, part 3	Clinker production not to exceed 1.6 million tons/year		P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 36 of 71

Table - V									
S-211 SEPARATOR (6-SE-2) ABATED BY A-211 DUST COLLECTOR (6-DC-12, 14, 16, 18)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 1545, parts 1 & 4	C	COMS		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 1545, parts 1 & 4	C	COMS		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 1545, part 2	0.006 gr/dscf or 3.6 lbs/hr	BAAQMD cond # 1545, parts 1 & 4	C	COMS		NONE TO REPORT		
Throughput	BAAQMD cond # 1545, part 3	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond #11780 part E	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 37 of 71

Table - W
S-216 CLINKER CAKE CONVEYOR (6-BC-13) ABATED BY A-216 DUST COLLECTOR,
S-217 CLINKER CAKE CONVEYOR (6-BC-15) ABATED BY A-217 DUST COLLECTOR
S-221 CLINKER CAKE FEEDER (6-WF-2) ABATED BY A-221 DUST COLLECTOR,
S-231 CLINKER CEMENT PRESSED CAKE BIN ABATED BY A-231 DUST COLLECTOR
(6-SS-2), S-242 CLINKER CAKE FEEDER (6-WF-3) ABATED BY A-242 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4996, part 2	P/Q	Pressure drop manometer		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a)(4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4996, part 1	Ringelmann 0.5	BAAQMD cond # 4996, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4996, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 38 of 71

Table - W
S-216 CLINKER CAKE CONVEYOR (6-BC-13) ABATED BY A-216 DUST COLLECTOR,
S-217 CLINKER CAKE CONVEYOR (6-BC-15) ABATED BY A-217 DUST COLLECTOR
S-221 CLINKER CAKE FEEDER (6-WF-2) ABATED BY A-221 DUST COLLECTOR,
S-231 CLINKER CEMENT PRESSED CAKE BIN ABATED BY A-231 DUST COLLECTOR
(6-SS-2), S-242 CLINKER CAKE FEEDER (6-WF-3) ABATED BY A-242 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Emission limitation	BAAQMD cond # 4996, part 3	0.006 gr/dscf	BAAQMD cond # 4996, part 2	P/E	Pressure drop monitoring		NONE TO REPORT		
Record keeping	BAAQMD 2-6-503	Hours of operation	BAAQMD cond # 4996, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 39 of 71

Table - X
S-218 AIR SEPARATOR (6-SE-1) ABATED BY A-218 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4997, part 2	Ringelmann 0.5	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 4997 part 3	0.006 gr/dscf	BAAQMD cond # 4997, parts 1 & 4 BAAQMD cond # 20752, part 1	P/E	Triboflow leak detector		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 40 of 71

Table - X
S-218 AIR SEPARATOR (6-SE-1) ABATED BY A-218 DUST COLLECTOR

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Record keeper	BAAQMD cond # 4997, part 7	Hours of operation	BAAQMD cond # 4997, part 7	P/D	Log/ Record keeping		NONE TO REPORT		
Throughput	BAAQMD cond # 4997, part 5	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 4997, part 7	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 41 of 71

Table - Y
S-220 FINISH MILL (6-GM-2) ABATED BY A-220 DUST COLLECTOR (6-DC-8)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4998, part 2	Ringelmann 0.5	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 4998 part 3	0.006 gr/dscf	BAAQMD cond # 4998, parts 1 & 4 BAAQMD cond # 20752, part 1	P/E	Triboflow leak detector		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 42 of 71

Table - Y
S-220 FINISH MILL (6-GM-2) ABATED BY A-220 DUST COLLECTOR (6-DC-8)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 4998, part 5	Import 5000 tons for each day the kiln is down in excess of 45 days	BAAQMD cond # 4998, part 7	P/D	Log/ Hours of Operation		NONE TO REPORT		
Throughput	BAAQMD cond # 4998, part 5	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 4997, part 7	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 43 of 71

Table - Z									
S-222 GYPSUM FEEDER (6-WF-4) ABATED BY A-222 DUST COLLECTOR (6-DC-4), S-240 ADDITIVE CONVEYOR/BINS ABATED BY A-240 DUST COLLECTOR (6-DC-21), S-243 GYPSUM FEEDER (6-WF-9) ABATED BY A-243 DUST COLLECTOR (6-DC-9), S-244 POZZOLAN FEEDER (6-WF-7) ABATED BY A-244 DUST COLLECTOR (6-DC-7), S-245 CLAY FEEDER (6-WF-5) ABATED BY A-245 DUST COLLECTOR (6-DC-5)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4995, part 2	P/Q	Pressure drop manometer		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20753, part 1	P/Q	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4995, part 1	Ringelmann 0.5	BAAQMD cond # 4995, part 2	P/Q	Pressure drop manometer		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4995, part 2	P/Q	Pressure drop manometer		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 44 of 71

Table - Z

S-222 GYPSUM FEEDER (6-WF-4) ABATED BY A-222 DUST COLLECTOR (6-DC-4),
S-240 ADDITIVE CONVEYOR/BINS ABATED BY A-240 DUST COLLECTOR (6-DC-21),
S-243 GYPSUM FEEDER (6-WF-9) ABATED BY A-243 DUST COLLECTOR (6-DC-9),
S-244 POZZOLAN FEEDER (6-WF-7) ABATED BY A-244 DUST COLLECTOR (6-DC-7),
S-245 CLAY FEEDER (6-WF-5) ABATED BY A-245 DUST COLLECTOR (6-DC-5)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PM10	BAAQMD cond # 4995, part 3	0.0013 gr/dscf	BAAQMD cond # 4995, part 2 BAAQMD cond # 20751, part 3b	P/E	Pressure drop monitoring		NONE TO REPORT		
Record keeping	BAAQMD cond # 4995, part 3	Pressure Drop	BAAQMD cond # 4995, part 6	P/Q	Log/ Record keeping		NONE TO REPORT		
Record keeping	BAAQMD 2-6-503	Hours of operation	BAAQMD cond # 4995, part 6	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 45 of 71

Table - AA
S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST COLLECTOR (6-DC-2)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 4999, part 1	Ringelmann 0.5	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 4999 part 3	0.006 gr/dscf	BAAQMD cond # 4999, part 4 BAAQMD cond # 20752, part 1	P/E	Triboflow leak detector		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 46 of 71

Table - AA									
S-230 HYDRAULIC ROLLER PRESS (6-RP-1) ABATED BY A-230 DUST COLLECTOR (6-DC-2)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 4999, part 5	Import 5000 tons for each day the kiln is down in excess of 45 days	BAAQMD cond # 4999, part 7	P/D	Log/ Hours of Operation		NONE TO REPORT		
Throughput	BAAQMD cond # 4999, part 5	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 4999, part 7	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 47 of 71

Table - BB									
S-300 ROCKPLANT WET AGGREGATE STORAGE PILES ABATED BY A-300 WATER SPRAY SYSTEM									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7252, part 2 & 4	C	Water spray system		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	Not to exceed 10% opacity	40 CFR Subpart OOO §60.674	C	Water flow rate & pressure drop		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7252, part 1	Ringelmann 0.5	BAAQMD cond # 7252, part 6	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7252, part 6	P/.D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Water flow rate	BAAQMD cond # 7252, part 3	Water flow rate shall be of such quantity over the four storage piles and the system shall operate frequently enough to maintain the surface moisture of the storage piles.	BAAQMD cond # 7252, part 2 & 4	C	Water spray system		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 48 of 71

Table - BB									
S-300 ROCKPLANT WET AGGREGATE STORAGE PILES ABATED BY A-300 WATER SPRAY SYSTEM									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Wet Surface Condition	BAAQMD cond # 7252, part 4	Completely “surface-wet”	BAAQMD cond # 7252, part 6	P/D	Log/ Record keeping		NONE TO REPORT		
Throughput	BAAQMD cond # 7252, part 5	Stockpiles product not to exceed 1.5 million tons/year	BAAQMD cond # 7252, part 6	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 49 of 71

Table - CC									
S-301 RAIL LOADOUT SYSTEM ABATED BY A-301 RAIL LOADOUT DUST COLLECTOR (7-DC-9)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7837, part 4 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a) (4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 7837, part 2	Ringelmann 0.5	BAAQMD cond # 7837, part 4 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7837, part 4	P/Q	Pressure drop monitoring		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 7837 part 5	0.01 gr/dscf	BAAQMD cond # 7837, part 4 BAAQMD cond # 20751, part 3b	P/E	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 50 of 71

Table - CC									
S-301 RAIL LOADOUT SYSTEM ABATED BY A-301 RAIL LOADOUT DUST COLLECTOR (7-DC-9)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 7837, part 1	Cement at source not to exceed 312,000 tons/year	BAAQMD cond # 7837, part 7	P/D	Log/ Record keeping		NONE TO REPORT		
Record keeping	BAAQMD cond # 7837, part 6	2,080 hours of operation/year	BAAQMD cond # 7837, part 7	P/D	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 51 of 71

Table - DD
S-340 COARSE ROCK WITHDRAWAL SYSTEM ABATED BY A-340 BAGHOUSE (8-DC-50),
S-341 SCREENS ABATED BY A-341 BAGHOUSE (8-DC-51),
S-343 CRUSHED ROCK CONVEYORS ABATED BY A-341 BAGHOUSE (8-DC-51),
S-390 CONVEYOR ABATED BY A-390 BAGHOUSE (8-DC-30)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	40 CFR Subpart OOO §60.674	P/Q	Pressure Drop monitoring		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	40 CFR Subpart OOO §60.675	P/E	(M5) or (M17)		N/A for this reporting period		
Opacity	BAAQMD cond # 7247, part 1	Ringelmann 0.5	BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7247, part 2b BAAQMD cond # 20751, part 3b	P/Q	Pressure drop monitoring		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 7247 part 3	0.0013 gr/dscf	BAAQMD cond # 7247, part 2	P/E	Pressure drop monitoring		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 52 of 71

Table - DD
S-340 COARSE ROCK WITHDRAWAL SYSTEM ABATED BY A-340 BAGHOUSE (8-DC-50),
S-341 SCREENS ABATED BY A-341 BAGHOUSE (8-DC-51),
S-343 CRUSHED ROCK CONVEYORS ABATED BY A-341 BAGHOUSE (8-DC-51),
S-390 CONVEYOR ABATED BY A-390 BAGHOUSE (8-DC-30)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 7247, part 5	Total of overburden coarse rock processed 1.5 million tons/year	BAAQMD cond # 7247, parts 8 & 9	P/D	Record keeping		NONE TO REPORT		
Log record keeping	BAAQMD cond # 7247, part 6	Total of combined overburden coarse rock, sub-base rock and class 2 rock processed 2.5 million tons/year	BAAQMD cond # 7247, parts 8 & 9	P/D	Log/ Record keeping		NONE TO REPORT		
Hours of Operation	BAAQMD cond # 7247, part 7	Total hours of operation 5,660/year	BAAQMD cond # 7247, part 8 & 9	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 53 of 71

Table - EE
S-342 ROCK CRUSHERS ABATED BY A-342 BAGHOUSE (8-DC-52)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	40 CFR Subpart OOO §60.674	P/Q	Pressure drop monitoring		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7246, part 1	Ringelmann 0.5	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 54 of 71

Table - EE
S-342 ROCK CRUSHERS ABATED BY A-342 BAGHOUSE (8-DC-52)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
PM10	BAAQMD cond # 7246 part 2	0.0013 gr/dscf	BAAQMD cond # 7246, part 3 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Throughput	BAAQMD cond # 7246, part 5	Overburden coarse rock processed 1.5 million tons/year	BAAQMD cond # 7246, part 9	P/D	Log/ Record keeping		NONE TO REPORT		
Log record keeping	BAAQMD cond # 7246, part 6	Overburden coarse rock, Aggregate sub-base and Class 2 base rock processed 2.5 million tons/year	BAAQMD cond # 7246, part 9	P/D	Log/ Record keeping		NONE TO REPORT		
Hours of Operation	BAAQMD cond # 7246, part 7	Total hours of operation 5,660/year	BAAQMD cond # 7246, part 9	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 55 of 71

Table - FF
S-344 ROCK PLANT WET SCREEN FEED CONVEYOR ABATED BY A-350 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7248, part 5	P/D	Log/Record keeping		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7248, part 1	Ringelmann 0.5	BAAQMD cond # 7248, part 5	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7248, part 5	P/D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Wet Surface Condition	BAAQMD cond # 7248, part 3	Completely “surface-wet”	BAAQMD cond # 7248, part 5	P/D	Log/ Record keeping		NONE TO REPORT		
Throughput	BAAQMD cond # 7248, part 4	Rock processed not to exceed 1.5 million tons/year	BAAQMD cond # 7248, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 56 of 71

Table - GG
S-350 ROCK PLANT WET SCREEN AND CONVEYING ABATED BY A-350 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7249, part 5	P/D	Log/Record Keeping		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7249, part 1	Ringelmann 0.5	BAAQMD cond # 7249, part 5	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7249, part 5	P/D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Wet Surface Condition	BAAQMD cond # 7249, parts 3 & 4	Completely “surface-wet”	BAAQMD cond # 7249, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 57 of 71

Table - HH									
S-360 ROCKPLANT WET AGGREGATE LOADOUT SYSTEM ABATED BY A-360 WATER SPRAY SYSTEM									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7250, part 5	P/D	Log/Record keeping		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7250, part 1	Ringelmann 0.5	BAAQMD cond # 7250, part 5	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7250, part 5	P/D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Wet Surface Condition	BAAQMD cond # 7250, parts 3 & 4	Completely “surface-wet”	BAAQMD cond # 7250, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 58 of 71

Table - II
S-370 AGGREGATE ADDITIVE TRANSFER SYSTEM WITH SILO ABATED BY A-370 WATER SPRAY, S-380 SAND TRANSFER HOPPER, S-381 SAND STORAGE PILE, S-382 WATER CLARIFIER FINES SYSTEM
S-370, S-380, S-381, AND S-382 ALSO ABATED BY HAUL ROAD SPRINKLER SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping		NONE TO REPORT		
Opacity	40 CFR Subpart OOO 60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO 60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
Opacity	BAAQMD cond # 7251, part 1	Ringelmann 0.5	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7251, part 5	P/D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Wet Surface Condition	BAAQMD cond # 7251, parts 3 & 4	Completely “surface-wet”	BAAQMD cond # 7251, part 5	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 59 of 71

Table – JJ									
S-383 ROCK PLANT 2 CONVEYORS ABATED BY A-384 BAGHOUSE (8-DC-31),									
S-384 ROCK PLANT 2 SCREENS ABATED BY A-384 BAGHOUSE (8-DC-31)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond. # 7246 (1)	P/Q	Visual inspection (M22)		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		N			NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 60 of 71

Table - KK
S-412 FINISH MILL ADDITIVE BIN (6-GM-3) ABATED BY A-218 DUST COLLECTOR (6-DC-19)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 13900, parts 1 & 4 BAAQMD cond # 20752, part 1	C	Triboflow leak detector		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1347	10%	§63.1350(e) BAAQMD cond # 20752, part 2(D)	P/D	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 13900, part 2	Ringelmann 0.5	BAAQMD cond # 13900, parts 1 & 4	C	Triboflow leak detector		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 13900, parts 1 & 4	C	Triboflow leak detector		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 13900, part 3	0.006 gr/dscf	BAAQMD cond # 13900, part 4	P/E	Triboflow leak detector		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 61 of 71

Table - KK
S-412 FINISH MILL ADDITIVE BIN (6-GM-3) ABATED BY A-218 DUST COLLECTOR (6-DC-19)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 13900, part 5	Clinker production not to exceed 1.6 million tons/year	BAAQMD cond # 13900, part 6	P/D	Log/ Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 62 of 71

Table - LL
S-414 KILN DUST ADDITIVE BIN (6-SS-13) ABATED BY A-414 DUST COLLECTOR (6-DC-25)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a)(4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 13982, part 1	Ringelmann 0.5	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 13982, part 5	0.01 gr/dscf	BAAQMD cond # 13982, part 2 BAAQMD cond # 20751, part 3b	P/Q	Pressure drop manometer		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 63 of 71

Table - LL
S-414 KILN DUST ADDITIVE BIN (6-SS-13) ABATED BY A-414 DUST COLLECTOR (6-DC-25)

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 13982, part 4	Cement kiln dust shall not exceed 24,000 tons/year	BAAQMD cond # 13982, part 5	P/Q	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 64 of 71

Table - MM									
S-415 FINISH MILL BUILDING CONVEYOR (6-BC-23) ABATED BY A-415 DUST COLLECTOR (6-DC-26)									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0		P/Q	Pressure drop manometer		NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a)(4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
PM	BAAQMD 6-310	0.15 gr/dscf		P/Q	Pressure drop manometer		NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
PM10	BAAQMD cond # 21345, part 3	0.006 gr/dscf	BAAQMD cond # 21345, part 3	P/Q	Pressure drop manometer		NONE TO REPORT		
Throughput	BAAQMD cond # 21345, part 1	Shall not exceed 9,900 tons during any 12 month consecutive period	BAAQMD cond # 21345, part 1	P/Q	Record keeping		NONE TO REPORT		
Hours of operation	BAAQMD cond # 21345, part 4	Shall not exceed 9,900 tons during any 12 month consecutive period	BAAQMD cond # 21345, part 4	P/Q	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 65 of 71

Table - NN									
S-444 EMERGENCY CLINKER DIVERSION CONVEYOR (5-DDC-1) ABATED BY A-444 WATER SPRAY									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 23416, part 1	N	Visual inspection (M22)	S-444	NONE TO REPORT		
Opacity	40 CFR Subpart LLL §63.1348	10%	§63.1350(a)(4)	P/Monthly, semiannually, annually, as appropriate	Visual inspection (M22)		NONE TO REPORT		
			§63.1349(c)	P/every 5 years	Periodic source test (M9)		NONE TO REPORT		NESHAP Test report Nov / Dec 2012
Opacity	BAAQMD cond # 23416, part 1	Ringelmann 1.0	BAAQMD cond # 23416, part 1	N	Visual inspection (M22)	S-444	NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Throughput	BAAQMD cond # 23416, part 3	Shall not exceed 75,000 tons during any rolling 365 consecutive day period	BAAQMD cond # 23416, part 3	P/Q	Record keeping		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 66 of 71

Table – OO									
S-501 EMERGENCY DIESEL GENERATOR									
S-502 EMERGENCY DIESEL GENERATOR									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-303	Ringelmann 2.0 for > 3 minutes in any hour or equivalent Opacity		N			NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		N			NONE TO REPORT		
Sulfur content limit	BAAQMD 9-1-304	Sulfur content of liquid fuel <u>not to exceed</u> 0.5% by weight	BAAQMD cond # 18855, part 1	P/E	Fuel Certification		NONE TO REPORT		
Sulfur content limit	BAAQMD cond #18855, part 1	Sulfur content of liquid fuel <u>not to exceed</u> 0.05% by weight	BAAQMD cond # 18855, part 1	P/E	Fuel Certification		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 67 of 71

Table - PP									
S-505 DIESEL PORTABLE PUMP									
Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Hours	“Portable Diesel Engine ATCM”	80 hours per year	Section 93116.2(a)(22)	P/Annual	Hours log		NONE TO REPORT		
Opacity	BAAQMD 6-1	Ringelmann 2.0 for > 3 minutes in any hour or equivalent Opacity		N			NONE TO REPORT		
Replace	“Portable Diesel Engine ATCM”	Replace engine w/in 2 years of Tier 4 availability	Section 93116(b)(1)(B)	N			NONE TO REPORT		
Operate	“Portable Diesel Engine ATCM”	Op Hour Totalizing meter	Section 93116.4(c)(2)(A)	N			NONE TO REPORT		
Records	BAAQMD 2 - 6 - 501	Hours of operation		P/M	Hours / fuel usage log, nature of activity		NONE TO REPORT		
	“Portable Diesel Engine ATCM”		Section 93116.4(c)(2)(A)						

Note: (M#) means ‘EPA Test Method #’.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 68 of 71

Table – QQ
S-600 LIMESTONE QUARRY OPERATION

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Nuisance	BAAQMD 1-301	Emissions	BAAQMD Cond. #21025(1)	N			NONE TO REPORT		
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD Cond. #21025(2)	N			NONE TO REPORT		
Explosives Usage	BAAQMD Cond. #21025(3)	80 hours per year	BAAQMD Cond. #21025(3)	P/Monthly	Recordkeeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 69 of 71

Table – RR
S-601 (9-DH-1) LIMESTONE QUARRY HOPPER ABATED BY A4501 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 23896, part 2	N			NONE TO REPORT		
Opacity	40 CFR Subpart OOO §60.672 (b)	10% opacity	N/A	N	N		NONE TO REPORT		
PM	40 CFR Subpart OOO §60.672 (a) (1)	0.022 grains/dscf	N/A	N	N		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf		N			NONE TO REPORT		
Process weight limitation	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 70 of 71

Table - SS
S-606 STORAGE PILES AREA #1 ABATED BY A-606 WATER SPRAY SYSTEM
S-607 STORAGE PILES AREA #2 ABATED BY A-607 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Opacity	BAAQMD 6-301	Ringelmann 1.0	BAAQMD cond # 24274, part 2	C	Water spray system		NONE TO REPORT		
Opacity	BAAQMD cond # 24274, part 2	Ringelmann 0.5	BAAQMD cond # 24274, part 2	P/D	Log/Record keeping		NONE TO REPORT		
PM	BAAQMD 6-310	0.15 gr/dscf	BAAQMD cond # 7252, part 6	P/.D	Log/Record keeping		NONE TO REPORT		
FP	BAAQMD 6-311	4.10P ^{0.67} lb/hr, where P is process weight, ton/hr		N			NONE TO REPORT		
Abate with Water	BAAQMD cond # 24274, part 3	Shall abate storage piles as necessary w/ A-606, A-607 , respectively, to maintain Compliance w/ part 2	BAAQMD cond # 24274, part 3	P/D	Water spray system		NONE TO REPORT		

Lehigh Southwest Cement Company – Permanente Plant
Major Facility Review Permit – BAAQMD Facility ID # A0017
Report of Required Monitoring for Period July 1, 2017 through December 31, 2017
Report Date January 31, 2018
Page 71 of 71

Table - SS
S-606 STORAGE PILES AREA #1 ABATED BY A-606 WATER SPRAY SYSTEM
S-607 STORAGE PILES AREA #2 ABATED BY A-607 WATER SPRAY SYSTEM

Type of Limit	Emission Limit Citation	Emission Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type	Affected Source	Period of Excess (Date and Time)	Actual Excess	Comments (causes, corrective actions, etc.)
Throughput	BAAQMD cond # 24274, part 1	Stockpiles product any 12- consecutive month period : S-606 in tpy: Coal → 198,400 Coke → 171,034 Bauxite → 60,000 Iron Ore → 50,000 S-607 in tpy: 1" agg → 20,000 1/4" agg → 200,000 Slag → 20,000	BAAQMD cond # 24274, part 4	P/M	Record keeping		NONE TO REPORT		

Note: (M#) means 'EPA Test Method #'.