

US EPA ARCHIVE DOCUMENT

Draft Technical Support Document for HWC MACT Standards

Volume II:
HWC Emissions Database

Appendix B:
LWA Kiln Detailed Data Listing

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APPENDIX B LWA KILN DETAILED DATA LISTING

All information extracted from the certificate of compliance (COC) test reports is provided in Sections 1 through 8. Each section provides a particular type of information. The information within each section is grouped by the specific device tested. To help the reader navigate through the data, two look up tables have been provided (see Tables 1 and 2). Table 1 provides a list of relevant information for each emitting process. An emitting process is a collection of combustion devices which emit to a common stack or collection of stacks. For example, a facility may have two devices whose emissions are combined and exhausted through a common stack. This would be classified as a single emitting process. However, if each device had its own stack, each device would be considered as a separate emitting process. Table 2 provides a list of emitting processes in each section. Table 1 can be used to quickly locate all information for a particular emitting process while Table 2 can be used to locate emitting processes within a section. The information provided in each section is described below.

Section 1 - Company and Test Location Summary. This section includes the name and location of each emitting process in the database. The emitting processes are sorted by 1.Company, 2.City, 3.State, and 4.Emitting Process ID. It should be noted that sort field 1 is only printed when it changes. Sort fields 2, 3 and 4 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 2 - Emitting Process Summary Information and Test Conditions. This section includes basic information for each emitting process such as the types of waste and fuels burned as well as the unit capacity. The test report and certificate of compliance dates also are provided were applicable. It should be noted that the most current dates are listed. For example if an emitting process was tested on 1/92 and 1/95, the test date would be 1/95. A brief description of each test conducted on the emitting process also is provided. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, and 5.EER Run ID. The EER Run ID includes the emitting process ID, condition number, and run number. It should be noted that the sort fields 1, 2, and 3 are only printed when they can change. Sort fields 4 and 5 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 3 - Combustor Design and Operating Information. This section includes detailed chamber specific information on the combustor design and operation for each emitting process. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Combustor Type, and 6.EER Run ID. It should be noted that the sort fields 1, 2, 3, 4, and 5 are only printed when they can change. Sort field 6 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 4 - APC Device Design and Operating Information. This section includes detailed APC device specific information on APC device design and operation for each emitting process. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.APC System Type, and 6.EER Run ID. It should be noted that the sort fields 1,

2, 3, 4, and 5 are only printed when they can change. Sort field 6 is printed for every record. Section 4 is divided into several subsections including:

- 4b - Fabric Filter Design and Operating Information.
- 4d - Venturi Scrubber Design and Operating Information.

Tables 1 can be used to quickly locate information for a specific facility. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 5 - Emission Stream Rates. This section includes basic source test information at the controlled and uncontrolled air emission sampling locations. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Controlled or Uncontrolled), 6.Stream Description (Emissions), and 7.EER Run ID. It should be noted that sort fields 5 and 6 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort field 7 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 6 - Other Stream Rates. This section includes basic information for each process stream where available. Example process streams include spikes, waste, fuel, raw materials, collected ash, and product. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Fuel, Waste, Raw Material, Spike, Fabric Filter Ash, Clunker, Aggregate, Electrostatic Precipitator Ash, etc.), 6.Stream Description (various descriptions given), and 7.EER Run ID. It should be noted that sort fields 5 and 6 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort field 7 is printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 7 - Emissions Analyses. This section includes trace metals (Arsenic, Antimony, Barium, Beryllium, Cadmium, Chromium, Lead, Nickel, Mercury, Selenium, Silver, Thallium), particulate, HCl/Cl₂, Hydrocarbon (THC), carbon monoxide (CO), semi-volatile organic compounds (SVOC), volatile organic compounds (VOC), and dioxin/furan analyses for controlled and uncontrolled air emissions. Zero indicates no data was available. Units include lbs/hr for all mass flow rates. Concentration units depend on the stream type and substance category. Concentrations are provided in ppmv for HCl/Cl₂/CO/THC, ug/dscm for metals, gr/dscf for particulate, and ng/dscm for SVOC, VOC and dioxin/furans. Where possible, the air emission concentrations have been corrected to 7% oxygen. In some cases, the oxygen content of the stack gases was not provided. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Controlled or Uncontrolled), 6.Stream Description (Emissions), 7.Category (Chlorine, Dioxin & Furan, Metals, Particulate, SVOC, THC & CO, and VOC), 8.Substance (various), and 9.EER Run ID. It should be noted that sort fields 5, 6, and 7 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort fields 8 and 9 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

Section 8 - Other Stream Analyses. This section includes trace metals (Arsenic, Antimony, Barium, Beryllium, Cadmium, Chromium, Lead, Nickel, Mercury, Selenium, Silver, Thallium), particulate, HCl/Cl₂, semi-volatile organic compounds (SVOC), volatile organic compounds (VOC), and dioxin/furan analyses for process streams. Zero indicates no data was available. Units include lbs/hr for all mass flow rates. Concentration units for most substances are ug/g. The information is sorted by 1.Company, 2.State, 3.City, 4.Emitting Process ID, 5.Stream Type (Fuel , Waste, Raw Material, Spike, Fabric Filter Ash, Clinker, Aggregate, and Electrostatic Precipitator Ash), 6.Stream Description (various), 7.Category (Chlorine, Dioxin & Furan, Metals, Particulate, SVOC, THC & CO, and VOC), 8.Substance (various), and 9.EER Run ID. It should be noted that sort fields 5, 6, and 7 are only printed when they can change. Sort fields 1, 2, 3, and 4 are listed at the top of each page. Sort fields 8 and 9 are printed for every record. Table 3 describes each field in this section. A list of terms is provided in Table 4.

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Norlite	NY	Cohoes	307	1		1
Norlite	NY	Cohoes	307	2		1
Norlite	NY	Cohoes	307	3		1
Norlite	NY	Cohoes	307	4	b-FF	1
Norlite	NY	Cohoes	307	4	d-VS	7
Norlite	NY	Cohoes	307	5		1
Norlite	NY	Cohoes	307	6		1
Norlite	NY	Cohoes	307	7		1
Norlite	NY	Cohoes	307	8		1
Solite	FL	Green Cove Springs	227	1		1
Solite	FL	Green Cove Springs	227	2		1
Solite	FL	Green Cove Springs	227	3		1
Solite	FL	Green Cove Springs	227	4	b-FF	1
Solite	FL	Green Cove Springs	227	5		2
Solite	FL	Green Cove Springs	227	6		5
Solite	FL	Green Cove Springs	227	7		7
Solite	FL	Green Cove Springs	227	8		18
Solite	KY	Brooks	310	1		1
Solite	KY	Brooks	310	2		2
Solite	KY	Brooks	310	3		2
Solite	KY	Brooks	310	4	b-FF	2
Solite	KY	Brooks	310	5		3
Solite	KY	Brooks	310	6		6
Solite	KY	Brooks	310	7		9
Solite	KY	Brooks	310	8		21
Solite	NC	Norwood	223	1		1
Solite	NC	Norwood	223	2		2
Solite	NC	Norwood	223	3		2
Solite	NC	Norwood	223	4	b-FF	2
Solite	NC	Norwood	223	5		4
Solite	NC	Norwood	223	6		7
Solite	NC	Norwood	223	7		10
Solite	NC	Norwood	223	8		24
Solite	NC	Norwood	224	1		1
Solite	NC	Norwood	224	2		2
Solite	NC	Norwood	224	3		2
Solite	NC	Norwood	224	4	b-FF	3
Solite	NC	Norwood	224	5		5
Solite	NC	Norwood	224	6		8
Solite	NC	Norwood	224	7		11
Solite	NC	Norwood	224	8		26
Solite	NC	Norwood	225	1		1
Solite	NC	Norwood	225	2		2

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Solite	NC	Norwood	225	3		3
Solite	NC	Norwood	225	4	b-FF	3
Solite	NC	Norwood	225	5		6
Solite	NC	Norwood	225	6		9
Solite	NC	Norwood	225	7		12
Solite	NC	Norwood	225	8		28
Solite	NC	Norwood	226	1		1
Solite	NC	Norwood	226	2		2
Solite	NC	Norwood	226	3		3
Solite	NC	Norwood	226	4	b-FF	4
Solite	NC	Norwood	226	5		7
Solite	NC	Norwood	226	6		10
Solite	NC	Norwood	226	7		13
Solite	NC	Norwood	226	8		30
Solite	VA	Arvonnia	313	1		1
Solite	VA	Arvonnia	313	2		3
Solite	VA	Arvonnia	313	3		4
Solite	VA	Arvonnia	313	4	b-FF	4
Solite	VA	Arvonnia	313	5		8
Solite	VA	Arvonnia	313	6		11
Solite	VA	Arvonnia	313	7		14
Solite	VA	Arvonnia	313	8		32
Solite	VA	Arvonnia	314	1		1
Solite	VA	Arvonnia	314	2		3
Solite	VA	Arvonnia	314	3		4
Solite	VA	Arvonnia	314	4	b-FF	4
Solite	VA	Arvonnia	314	5		9
Solite	VA	Arvonnia	314	6		12
Solite	VA	Arvonnia	314	7		15
Solite	VA	Arvonnia	314	8		35
Solite	VA	Cascade	311	1		1
Solite	VA	Cascade	311	2		3
Solite	VA	Cascade	311	3		4
Solite	VA	Cascade	311	4	b-FF	5
Solite	VA	Cascade	311	5		10
Solite	VA	Cascade	311	6		13
Solite	VA	Cascade	311	7		16
Solite	VA	Cascade	311	8		38
Solite	VA	Cascade	312	1		1
Solite	VA	Cascade	312	2		3
Solite	VA	Cascade	312	3		5
Solite	VA	Cascade	312	4	b-FF	5
Solite	VA	Cascade	312	5		11

TABLE 1. LIST OF INFORMATION BY EMITTING PROCESS.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Solite	VA	Cascade	312	6		14
Solite	VA	Cascade	312	7		17
Solite	VA	Cascade	312	8		41
Solite	VA	Cascade	336	1		1
Solite	VA	Cascade	336	2		3
Solite	VA	Cascade	336	5		12
Solite	VA	Cascade	336	6		15
Solite	VA	Cascade	336	7		18
Solite	VA	Cascade	336	8		44

TABLE 2. LIST OF INFORMATION BY SECTION.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Norlite	NY	Cohoes	307	1		1
Solite	FL	Green Cove Springs	227	1		1
Solite	KY	Brooks	310	1		1
Solite	NC	Norwood	223	1		1
Solite	NC	Norwood	224	1		1
Solite	NC	Norwood	225	1		1
Solite	NC	Norwood	226	1		1
Solite	VA	Arvonnia	313	1		1
Solite	VA	Arvonnia	314	1		1
Solite	VA	Cascade	311	1		1
Solite	VA	Cascade	312	1		1
Solite	VA	Cascade	336	1		1
Norlite	NY	Cohoes	307	2		1
Solite	FL	Green Cove Springs	227	2		1
Solite	KY	Brooks	310	2		2
Solite	NC	Norwood	223	2		2
Solite	NC	Norwood	224	2		2
Solite	NC	Norwood	225	2		2
Solite	NC	Norwood	226	2		2
Solite	VA	Arvonnia	313	2		3
Solite	VA	Arvonnia	314	2		3
Solite	VA	Cascade	311	2		3
Solite	VA	Cascade	312	2		3
Solite	VA	Cascade	336	2		3
Norlite	NY	Cohoes	307	3		1
Solite	FL	Green Cove Springs	227	3		1
Solite	KY	Brooks	310	3		2
Solite	NC	Norwood	223	3		2
Solite	NC	Norwood	224	3		2
Solite	NC	Norwood	225	3		3
Solite	NC	Norwood	226	3		3
Solite	VA	Arvonnia	313	3		4
Solite	VA	Arvonnia	314	3		4
Solite	VA	Cascade	311	3		4
Solite	VA	Cascade	312	3		5
Norlite	NY	Cohoes	307	4	b-FF	1
Solite	FL	Green Cove Springs	227	4	b-FF	1
Solite	KY	Brooks	310	4	b-FF	2
Solite	NC	Norwood	223	4	b-FF	2
Solite	NC	Norwood	224	4	b-FF	3
Solite	NC	Norwood	225	4	b-FF	3
Solite	NC	Norwood	226	4	b-FF	4
Solite	VA	Arvonnia	313	4	b-FF	4

TABLE 2. LIST OF INFORMATION BY SECTION.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Solite	VA	Arvonias	314	4	b-FF	4
Solite	VA	Cascade	311	4	b-FF	5
Solite	VA	Cascade	312	4	b-FF	5
Norlite	NY	Cohoes	307	4	d-VS	7
Norlite	NY	Cohoes	307	5		1
Solite	FL	Green Cove Springs	227	5		2
Solite	KY	Brooks	310	5		3
Solite	NC	Norwood	223	5		4
Solite	NC	Norwood	224	5		5
Solite	NC	Norwood	225	5		6
Solite	NC	Norwood	226	5		7
Solite	VA	Arvonias	313	5		8
Solite	VA	Arvonias	314	5		9
Solite	VA	Cascade	311	5		10
Solite	VA	Cascade	312	5		11
Solite	VA	Cascade	336	5		12
Norlite	NY	Cohoes	307	6		1
Solite	FL	Green Cove Springs	227	6		5
Solite	KY	Brooks	310	6		6
Solite	NC	Norwood	223	6		7
Solite	NC	Norwood	224	6		8
Solite	NC	Norwood	225	6		9
Solite	NC	Norwood	226	6		10
Solite	VA	Arvonias	313	6		11
Solite	VA	Arvonias	314	6		12
Solite	VA	Cascade	311	6		13
Solite	VA	Cascade	312	6		14
Solite	VA	Cascade	336	6		15
Norlite	NY	Cohoes	307	7		1
Solite	FL	Green Cove Springs	227	7		7
Solite	KY	Brooks	310	7		9
Solite	NC	Norwood	223	7		10
Solite	NC	Norwood	224	7		11
Solite	NC	Norwood	225	7		12
Solite	NC	Norwood	226	7		13
Solite	VA	Arvonias	313	7		14
Solite	VA	Arvonias	314	7		15
Solite	VA	Cascade	311	7		16
Solite	VA	Cascade	312	7		17
Solite	VA	Cascade	336	7		18
Norlite	NY	Cohoes	307	8		1
Solite	FL	Green Cove Springs	227	8		18
Solite	KY	Brooks	310	8		21

TABLE 2. LIST OF INFORMATION BY SECTION.

<u>Company</u>	<u>State</u>	<u>City</u>	<u>EPID</u>	<u>Section</u>	<u>Sub-Section</u>	<u>Page</u>
Solite	NC	Norwood	223	8		24
Solite	NC	Norwood	224	8		26
Solite	NC	Norwood	225	8		28
Solite	NC	Norwood	226	8		30
Solite	VA	Arvonnia	313	8		32
Solite	VA	Arvonnia	314	8		35
Solite	VA	Cascade	311	8		38
Solite	VA	Cascade	312	8		41
Solite	VA	Cascade	336	8		44

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES

Field Name	Description	Example Inputs
1. Company 2. City 3. State EPA ID Region 4. EP ID Device Name	Section 1. Company and Test Location Summary Company City State EPA Identification Number EPA Region Emitting process ID number. 3 digit number used by EER. An emitting process is a collection of combustion devices that emit to a common stack or collection of stacks Name given to emitting process by plant	101, etc.
1. Company 2. State 3. City EPA ID Region Emitting Process Information: 4. EP ID Device Name # of Devices System Type APC System Waste Type Summary Fuel Summary Capacity Certificate of Compliance Test Report Date Condition Information: 5. EER Run ID Site Run ID Fuel Waste Description	Section 2. Emitting Process Summary Information and Test Conditions. Company State City EPA Identification Number EPA Region Emitting process ID number. 3 digit number used by EER. Name given to emitting process by plant Number of devices in emitting process Basic type of device All types of APCD in emitting process All types of waste burned in emitting process All types of fuel burned in emitting process Maximum capacity of emitting process (aggregate capacity if available, or raw material feed.) Date of Certification of Compliance Report Date of Test Report Identification # for run. Consists of EP ID #/Condition #/Run # Site description of run Fuel burned during given condition Waste burned during given condition Condition description	101, etc. Kiln #1, Unit #2, etc. LWA Kiln ESP/FF/VS, QC, MC HW Sld/Liq, HW Sludge Coal, Coke, Natural Gas, none 36 tph aggregate, 65 tph raw feed 101CIR1, 101CIR2, etc. Condition A, Runs 1-4 Coal, Coke, Natural Gas, none HW Sld/Liq, HW Sludge Low comb temp/low HW waste feed, High comb temp/high CI feed, etc.

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
<p>1. Company</p> <p>2. State</p> <p>3. City</p> <p>EPA ID</p> <p>Region</p> <p>4. EP ID</p> <p>Device Name</p> <p>System Type</p> <p>APC System</p> <p>5. Combustor Type</p> <p>Chamber Specific Design Info.:</p> <p>Chamber Name</p> <p>Chamber Type</p> <p># of Devices</p> <p>Length (ft)</p> <p>Manufacturer</p> <p>Surface Area (ft²)</p> <p>Diameter (ft)</p> <p>Refractory Type</p> <p>Length to Diameter</p> <p>Burner Type</p> <p>Volume (ft³)</p> <p>Precalciner</p> <p>Bypass</p> <p>Preheater</p> <p>Dust Recycle</p> <p>Comment</p> <p>Chamber Specific Operating Info.:</p> <p>6. Run ID</p> <p>Measurement Location</p> <p>Ave Temp (F)</p> <p>Oxygen (%)</p>	<p>Section 3. Kiln Design and Operating Information.</p> <p>Company</p> <p>State</p> <p>City</p> <p>EPA Identification Number</p> <p>EPA Region</p> <p>Emitting process ID number. 3 digit number used by EER.</p> <p>Name given to emitting process by plant</p> <p>Type of System</p> <p>All types of APCD in emitting process</p> <p>Type of combustor described in this sub-section</p> <p>Name given to chamber by site</p> <p>Type of chamber</p> <p>Number of similar devices in EP</p> <p>Length of chamber (feet)</p> <p>Manufacturer of device</p> <p>Interior surface area of combustion chamber (sq. feet)</p> <p>Inside diameter of chamber (feet)</p> <p>Type of refractory</p> <p>Ratio of length to diameter</p> <p>Type of burner</p> <p>Interior volume of chamber (cubic feet)</p> <p>Indicates presence of precalciner</p> <p>Indicates presence of bypass</p> <p>Indicates presence of preheater</p> <p>Indicates whether captured particulate is recycled back to kiln</p> <p>Any additional comments regarding combustor description</p> <p>Identification # for run. Consists of EP ID #/Condition #/Run #</p> <p>Measurement location of temp and O₂ within comb. chamber</p> <p>Average temperature at measured location</p> <p>Oxygen concentration at measured location</p>	<p>101, etc.</p> <p>Kiln #1, Unit #2, etc.</p> <p>LWA Kiln</p> <p>ESP/FF/VS, QC, MC</p> <p>LWA Kiln</p> <p>Kiln, Afterburner</p> <p>Single, Primary, Secondary, etc.</p> <p>Brick, etc.</p> <p>Low NOx, Conventional, etc.</p> <p>Y, N</p> <p>Y, N</p> <p>Y, N</p> <p>Y, N</p> <p>101CIR1, 101CIR2, etc.</p> <p>High end, low end, etc.</p>

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
<p>1. Company</p> <p>2. State</p> <p>3. City</p> <p>EPA ID</p> <p>Region</p> <p>4. EP ID</p> <p>Device Name</p> <p>System Type</p> <p>APC System</p> <p>5. APC Device Type</p> <p>Design Information:</p> <p>Controls emissions from</p> <p>Location</p> <p># of Devices</p> <p>Manufacturer</p> <p>Configuration</p> <p>Number of Compart</p> <p>Cloth Area (ft2)</p> <p>Number of Bags</p> <p>Induced</p> <p>Fabric Type</p> <p>Air to Cloth Ratio (ft/min)</p> <p>Maintenance Schedule</p> <p>Comment</p> <p>Operating Information:</p> <p>6. Run ID</p> <p>Temp (F)</p> <p>Pressure Drop (in. H2O)</p> <p>Air to Cloth (ft/min)</p>	<p>Section 4b. Fabric Filter Design and Operating Information.</p> <p>Company</p> <p>State</p> <p>City</p> <p>EPA Identification Number</p> <p>EPA Region</p> <p>Emitting process ID number. 3 digit number used by EER.</p> <p>Name given to emitting process by plant</p> <p>Type of System</p> <p>All types of APCD in emitting process</p> <p>Type of APCD described in this sub-section</p> <p>Describes which device precedes this APCD</p> <p>Location of current APCD within total APCD train</p> <p>Number of similar APCDs in EP</p> <p>APCD Manufacturer</p> <p>Basic configuration of FF</p> <p>Number of compartments</p> <p>Cloth area in feet squared</p> <p>Number of bags</p> <p>Induced</p> <p>Type of fabric</p> <p>Air to cloth ratio in feet per minute</p> <p>Frequency of cleaning</p> <p>Any additional comments regarding APCD description</p> <p>Identification # for run. Consists of EP ID #/Condition #/Run #</p> <p>Average temperature at APCD</p> <p>Pressure drop across FF in inches of water</p> <p>Air t actual cubic feet per minute. At APCD temp.</p>	<p>101, etc.</p> <p>Kiln #1, Unit #2, etc.</p> <p>LWA Kiln</p> <p>ESP/FF/VS, QC, MC FF</p> <p>LWA Kiln, FF, etc. 1, 2, 3, 4, 5</p> <p>Pulse Jet, Reverse Flow, etc.</p> <p>Induced or Pressurized Fiberglass, Nomex, Teflon, etc.</p> <p>101CIR1, 101CIR2, etc.</p>

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
<p>Section 4d. Venturi Scrubber Design and Operating Information.</p> <p>1. Company</p> <p>2. State</p> <p>3. City</p> <p>EPA ID</p> <p>Region</p> <p>4. EP ID</p> <p>Device Name</p> <p>System Type</p> <p>APC System</p> <p>5. APC Device Type</p> <p>Design Information:</p> <p>Controls emissions from</p> <p>Location</p> <p># of Devices</p> <p>Manufacturer</p> <p>Configuration</p> <p>Reagent</p> <p>Comment</p> <p>Operating Information:</p> <p>6. Run ID</p> <p>Temp (F)</p> <p>Pressure Drop (in. H2O)</p> <p>Liquid to Gas (gal/kacf)</p> <p>PH</p> <p>Reagent to Gas (lb/kacf)</p>	<p>Company</p> <p>State</p> <p>City</p> <p>EPA Identification Number</p> <p>EPA Region</p> <p>Emitting process ID number. 3 digit number used by EER.</p> <p>Name given to emitting process by plant</p> <p>Type of System</p> <p>All types of APCD in emitting process</p> <p>Type of APCD described in this sub-section</p> <p>Describes which device precedes this APCD</p> <p>Location of current APCD within total APCD train</p> <p>Number of similar APCDs in EP</p> <p>APCD Manufacturer</p> <p>Basic configuration of Venturi Scrubber</p> <p>Type of reagent used if any</p> <p>Any additional comments regarding APCD description</p> <p>Identification # for run. Consists of EP ID #/Condition #/Run #</p> <p>Average temperature at APCD</p> <p>Pressure drop across venturi in inches of water</p> <p>Liquid to gas ratio in gallons per thousand actual cubic feet</p> <p>PH</p> <p>Reagent to gas ratio in pounds per thousand cubic feed</p>	<p>101, etc.</p> <p>Kiln #1, Unit #2, etc.</p> <p>LWA Kiln</p> <p>ESP/FF/VS, QC, MC</p> <p>VS</p> <p>LWA Kiln, FF, etc.</p> <p>1, 2, 3, 4, 5</p> <p>Fixed or Variable Throat</p> <p>NaOH, Lime, etc.</p> <p>101CIR1, 101CIR2, etc.</p>

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 5. Air Emission Stream Rates		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	101, etc.
Region	EPA Region	Kiln #1, Unit #2, etc.
4. EP ID	Emitting process ID number. 3 digit number used by EER.	LWA Kiln
Device Name	Name given to emitting process by plant	ESP/FF/VS, QC, MC
System Type	Type of Kiln	Controlled, Uncontrolled Emissions
APC System	All types of APCD in emitting process	LWA Kiln
5. Type	Stream type	Stack, FF Entrance, etc.
6. Description	Stream description	Gas
Additional ID Information:	Describes combustion group with which stream is associated	
Process Group	Measurement location	
Location	Stream phase	
Phase	Stack height (feet)	
Stack Information:	Inside stack diameter (inches)	
Stack Height (ft)	Identification # for run. Consists of EP ID #/Condition #/Run #	101CIR1, 101CIR2, etc.
Stack Diameter (in)	Type substance measured	Metals, SVOC, etc.
Stream Rates and Properties:	Flow rate of current process stream in dry standard cubic feet per minute	
7. Run ID	Temperature of current process stream (°F)	
Method	Oxygen content of current process stream (% vol, dry)	
Process Rate	Moisture content of current stream (% wt)	
Temp (F)		
Oxygen (%)		
Moisture (%)		

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 6. Other Stream Rates		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	
Device Name	Name given to emitting process by plant	101, etc.
System Type	Type of System	Kiln #1, Unit #2, etc.
APC System	All types of APCD in emitting process	LWA Kiln
5. Type	Stream type	ESP/FF/VS, QC, MC
6. Description	Stream description	FF ash, fuel, waste, spike, etc. Product, Coal, CCl4 spike, etc.
Additional ID Information:		
Process Group	Describes combustion group with which stream is associated	LWA Kiln
Location	Measurement location	Primary, Secondary, ESP, FF, etc.
Phase	Stream phase	Gas, Liquid, Solid, Sludge
Feed Stream Information		
Feed Mechanism	Description of mechanism used to feed stream	Ram feed, atomizing nozzle, etc.
Feed Location	Location in device where feed is fed	Low end, high end, etc.
Manufacturer	Manufacturer of feed mechanism or burner	
Number of Burners	Number of burners	
Stream Rates and Properties:		
7. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101CIR1, 101CIR2, etc.
Process Rate	Flow rate of current process stream (units provided)	
Moisture (%)	Moisture content of current stream	
Heating Value	Heating value of current stream (units provided)	
Viscosity, cSt	Viscosity of current stream	
Density, lb/ft3	Density of current stream	
Ash (%)	Ash content of current stream	

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 7. Emissions Analysis		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	
Region	EPA Region	
4. EP ID	Emitting process ID number. 3 digit number used by EER.	101, etc.
Device Name	Name given to emitting process by plant	Kiln #1, Unit #2, etc.
System Type	Type of System	LWA Kiln
APC System	All types of APCD in emitting process	ESP/FF/VS, QC, MC
5. Type	Stream type	Controlled, Uncontrolled
6. Description	Stream description	Emissions
Process Group	Describes combustion group with which stream is associated	LWA Kiln
Location	Measurement location	Stack, FF Entrance, etc.
Phase	Stream phase	Gas
7. Category	Substance category	Chlorine, VOCs, Metals, etc.
Analysis:		
8. Substance	Substance name	Chlorine, Particulate, Arsenic, etc.
9. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	101C1R1, 101C1R2, etc.
Concentration	Concentration of substance in current stream (units provided)	
Mass Rate	Mass rate of substance in current stream (units provided)	
Calc	Type of calculation performed	CE, CC, CCE, etc.

(Numbers represent sort order for data summary.)

TABLE 3. DATA SUMMARY FIELD DESCRIPTIONS AND EXAMPLES (continued)

Field Name	Description	Example Inputs
Section 8. Other Stream Analysis		
1. Company	Company	
2. State	State	
3. City	City	
EPA ID	EPA Identification Number	101, etc.
Region	EPA Region	Kiln #1, Unit #2, etc.
4. EP ID	Emitting process ID number. 3 digit number used by EER.	LWA Kiln
Device Name	Name given to emitting process by plant	ESP/FF/VS, QC, MC
System Type	Type of System	FF ash, fuel, waste, spike, etc.
APC System	All types of APCD in emitting process	Product, Coal, CCl4 spike, etc.
5. Type	Stream type	LWA Kiln
6. Description	Stream description	Primary, Secondary, ESP, FF, etc.
Process Group	Describes combustion group with which stream is associated	Gas, Liquid, Solid, Sludge
Location	Measurement location	Chlorine, VOCs, Metals, etc.
Phase	Stream phase	Chlorine, Lead, Arsenic, etc.
7. Category	Substance category	101CIR1, 101CIR2, etc.
Analysis:		
8. Substance	Substance name	
9. Run ID	Identification # for run. Consists of EP ID #/Condition #/Run #	
Concentration	Concentration of substance in current stream (units provided)	
Mass Rate	Mass rate of substance in current stream (units provided)	
Calc	Type of calculation performed	CE, CC, CCE, etc.

(Numbers represent sort order for data summary.)

TABLE 4. GLOSSARY OF ACRONYMS FOR DATA SUMMARY

4D	Tetrachlorodibenzo-(p)-dioxin
4F	Tetrachlorodibenzofuran
5D	Pentachlorodibenzo-(p)-dioxin
5F	Pentachlorodibenzofuran
6D	Hexachlorodibenzo-(p)-dioxin
6F	Hexachlorodibenzofuran
7D	Heptachlorodibenzo-(p)-dioxin
7F	Heptachlorodibenzofuran
8D	Octachlorodibenzo-(p)-dioxin
8F	Octachlorodibenzofuran
?	Not Available
APC	Air Pollution Control
APCD	Air Pollution Control Device
AS	Absorber
AD	Ash Trap
AVE	Average
C	Cyclone
CA	Carbon Absorber
CAP	Capacity
CARNOT	Carnot Inc. test teams performed measurements
CK	Cement Kiln
CL	Chlorine
CO	Carbon Monoxide
COC	Certification of Compliance
COMB	Combustion
COND	condition
cSt	centi-Stoke (unit of viscosity)
CT	Chimney Tray
DA	Dilution Air
DI	Dry Injection
DM	Demister
dscfm	Dry standard cubic feet per minute
dscm	dry standard cubic meter
EP	Emitting Process
EPA	Environmental Pollution Agency
ES	Entrainment Separator
ESP	Electric Static Precipitator
F	Fahrenheit

FF	Fabric Filter
FN	Fog Nozzle
GC	Gas Cooler
gr/dscf	grains per dry standard cubic feet
HCl	hydrogen chloride
HCS	Hydrogen Chloride Scrubber
HE	Heat Exchanger
HEPA	High Efficiency Particulate Air Filter
HES	High Energy Scrubber
Hex	hexavalent
HP	HEPA Filter
HS	Hydrogen Chloride Scrubber
HTHE	High Temperature Heat Exchanger
HW	Hazardous waste
ID	Identification
Inch H ₂ O	Inches of water
IWS	Ionizing Wet Scrubber
KOV	Knock Out Vessel
KVA	Kilovolt ampere

TABLE 4. GLOSSARY OF ACRONYMS FOR DATA SUMMARY (continued)

LIQ	liquid
LTHE	Low Temperature Heat Exchanger
LWA	Light Weight Aggregate Kiln
MAX	maximum
MC	Multiple Cyclone
MIN	Minimum
N	No
NA	Not Applicable
ND	Non-detect
ng	nanogram
NO.	Number
PBC	Packed Bed Condenser
PBS	Packed Bed Scrubber
ppmv	parts per million by volume
PRESS	Pressure
PROD	production
PT	Packed Tower
Q	Quencher
QC	Quench Column
QT	Quench Tower
QS	Quench Seperator
RJS	Reverse Jet Scrubber
SLD	solid
SS	Spray Saturator
SVOC	Semi-volatile organic compound
SYS	System
TEMP	Temperature
TEQ	Total Equivalence Quotient
THC	Total hydrocarbons
Total PCDD	Total Polychloronated dibenzo-(p)-dioxin
Total PCDF	Total Polychloronated dibenzofuran
TPH	tons per hour
ug	microgram
VOC	Volatile organic compound
VS	Venturi Scrubber
VQ	Venturi Quench

WHB	Waste Heat Boiler
WS	Wet Scrubber
Y	Yes

SECTION 1: COMPANY AND TEST LOCATION SUMMARY

1. COMPANY: NORLITE

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
COHOES	NY	NYD080469935	2	307	KILN NO. 1

1. COMPANY: SOLITE

2. City	3. State	EPA ID:	Region	4. EP ID	Device Name:
GREEN COVE SPRINGS	FL	FLD004059085	4	227	KILN NO. 5
BROOKS	KY	KYD059568220	4	310	KILN NO. 2
NORWOOD	NC	NCD003152642	4	223	KILN NO. 5
NORWOOD	NC	NCD003152642	4	224	KILN NO. 6
NORWOOD	NC	NCD003152642	4	225	KILN NO. 7
NORWOOD	NC	NCD003152642	4	226	KILN NO. 8
ARVONIA	VA	VAD042755082	3	313	KILN NO. 7
ARVONIA	VA	VAD042755082	3	314	KILN NO. 8
CASCADE	VA	VAD046970521	3	311	KILN NO. 2
CASCADE	VA	VAD046970521	3	312	KILN NO. 4
CASCADE	VA	VAD046970521	3	336	KILN NO. 1

SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

1. COMPANY: NORLITE

2. STATE: NY

3. City: COHOES

EPA NYD080469935

REGION: 2

Emitting Process (EP) Information:

4. EP ID: 307
 Device Name: KILN NO. 1
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF/VS

Waste Type Summary: HW SLD/LIQ
 Fuel Type Summary: NONE
 Capacity: 28 TPH RAW FEED
 Certificate of Compliance: 00/00/00
 Test Report Date: 12/01/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
307C1	CONDITION A,RUNS	NONE	HW LIQ	LOW COMB TEMP,LOW HALOGEN FEED
307C1R1	CONDITION A	NONE	HW LIQ	LOW COMB TEMP,LOW HALOGEN FEED
307C1R2	CONDITION A, RUN #	NONE	HW LIQ	LOW COMB TEMP,LOW HALOGEN FEED
307C1R3	CONDITION A, RUN #	NONE	HW LIQ	LOW COMB TEMP,LOW HALOGEN FEED
307C1R4	CONDITION A, RUN #	NONE	HW LIQ	LOW COMB TEMP,LOW HALOGEN FEED
307C2R1	CONDITION B, RUN #	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C2R12	CONDITION B,RUNS	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C2R2	CONDITION B, RUN #	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C2R3	CONDITION B, RUN #	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C2R34	CONDITION B,RUNS	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C2R4	CONDITION B, RUN #	NONE	HW LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED
307C3R1	CONDITION C, RUN #	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C3R12	CONDITION C,RUNS	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C3R2	CONDITION C, RUN #	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C3R3	CONDITION C, RUN #	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C3R34	CONDITION C,RUNS	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C3R4	CONDITION C, RUN #	NONE	HW SLD/LIQ	LOW COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C4R1	CONDITION D, RUN 1	NONE	HW SLD/LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C4R12	CONDITION D,RUNS	NONE	HW SLD/LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C4R2	CONDITION D, RUN 2	NONE	HW SLD/LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C4R3	CONDITION D, RUN 3	NONE	HW SLD/LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED
307C4R34	CONDITION D,RUNS	NONE	HW SLD/LIQ	HIGH COMB TEMP,HIGH HALOGEN FEED,HIGH SHW FEED

1. COMPANY: SOLITE

2. STATE: FL

3. City: GREEN COVE SPRINGS

EPA FLD004059085

REGION: 4

Emitting Process (EP) Information:

4. EP ID: 227
 Device Name: KILN NO. 5
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 17 TPH RAW FEED
 Certificate of Compliance: 01/24/94
 Test Report Date: 01/01/94

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
227C1R1	COND.1 RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
227C1R2	COND. 1 RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
227C1R3	COND.1 RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

2. STATE: KY

3. City: BROOKS

EPA KYD059568220

REGION: 4

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SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

Emitting Process (EP) Information:

4. EP ID: 310
 Device Name: KILN NO. 2
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 8.6 TPH RAW FEED
 Certificate of Compliance: 08/20/92
 Test Report Date: 08/12/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
310C1R1	TEST 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
310C1R2	TEST 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
310C1R3	TEST 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

2. STATE: NC

3. City: NORWOOD

EPA NCD003152642

REGION: 4

Emitting Process (EP) Information:

4. EP ID: 223
 Device Name: KILN NO. 5
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 12 TPH RAW FEED
 Certificate of Compliance: 08/23/93
 Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
223C1R1	COND. 1 RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
223C1R2	COND. 1 RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
223C1R3	COND. 1 RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 224
 Device Name: KILN NO. 6
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 12 TPH RAW FEED
 Certificate of Compliance: 08/23/93
 Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
224C1R1	COND. 1 RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
224C1R2	COND. 1 RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
224C1R3	COND. 1 RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 225
 Device Name: KILN NO. 7
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 12 TPH RAW FEED
 Certificate of Compliance: 08/23/93
 Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
225C1R1	COND. 1 RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
225C1R2	COND. 1 RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
225C1R3	COND. 1 RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 226
 Device Name: KILN NO. 8
 # of Devices: 1
 System Type: LWA KILN
 APC System: FF

Waste Type Summary: HW LIQ
 Fuel Type Summary: NONE
 Capacity: 13 TPH RAW FEED
 Certificate of Compliance: 07/22/93
 Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
226C1R1	COND. 1 RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
226C1R2	COND. 1 RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
226C1R3	COND. 1 RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

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SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

2. STATE: VA

3. City: ARVONIA EPA VAD042755082 REGION: 3

Emitting Process (EP) Information:

4. EP ID: 313 Waste Type Summary: HW LIQ
 Device Name: KILN NO. 7 Fuel Type Summary: NONE
 # of Devices: 1 Capacity: 14 TPH RAW FEED
 System Type: LWA KILN Certificate of Compliance: 00/00/00
 APC System: FF Test Report Date: 08/08/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
313C1R1	RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
313C1R2	RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
313C1R3	RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 314 Waste Type Summary: HW LIQ
 Device Name: KILN NO. 8 Fuel Type Summary: NONE
 # of Devices: 1 Capacity: 14 TPH RAW FEED
 System Type: LWA KILN Certificate of Compliance: 00/00/00
 APC System: FF Test Report Date: 00/00/00

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
314C1R1	RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
314C1R2	RUN 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
314C1R3	RUN 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

3. City: CASCADE EPA VAD046970521 REGION: 3

Emitting Process (EP) Information:

4. EP ID: 311 Waste Type Summary: HW LIQ
 Device Name: KILN NO. 2 Fuel Type Summary: NONE
 # of Devices: 1 Capacity: 14 TPH RAW FEED
 System Type: LWA KILN Certificate of Compliance: 00/00/00
 APC System: FF Test Report Date: 08/08/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
311C1R1	RUN 1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
311C1R2	RUN #1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
311C1R3	RUN #3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 312 Waste Type Summary: HW LIQ
 Device Name: KILN NO. 4 Fuel Type Summary: NONE
 # of Devices: 1 Capacity: 15 TPH RAW FEED
 System Type: LWA KILN Certificate of Compliance: 00/00/00
 APC System: FF Test Report Date: 08/08/92

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
312C1R1	TEST #1	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
312C1R2	TEST 2	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL
312C1R3	TEST 3	NONE	HW LIQ	MAX HW FEED,MAX RAW MATERIAL

Emitting Process (EP) Information:

4. EP ID: 336 Waste Type Summary: HW LIQ
 Device Name: KILN NO. 1 Fuel Type Summary: NONE
 # of Devices: 1 Capacity: ?
 System Type: LWA KILN Certificate of Compliance: 00/00/00
 APC System: FF Test Report Date: 03/24/94

Condition Information

5. EER Run ID	Site Run ID	Fuel	Waste	Description
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SECTION 2: EMITTING PROCESS SUMMARY INFORMATION AND TEST CONDITIONS.

336C1R1	RUN 1	NONE	HW LIQ	MAX CL FEED,HIGH COMB TEMP
336C1R2	RUN 2	NONE	HW LIQ	MAX CL FEED,HIGH COMB TEMP
336C2R1	RUN 3	NONE	HW LIQ	MAX CL FEED,HIGH COMB TEMP

SECTION 3: KILN DESIGN AND OPERATING INFORMATION

1. COMPANY: NORLITE

2. STATE: NY

3. CITY: COHOES EPA NYD080469935 REGION: 2

4. EP ID: 307 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: LWA KILN APC SYS: FF/VS

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 190	Manufacturer: TRAYLOR ENGINEERS
Surface Area (ft2): 5812	Diameter (ft): 9
Refractory Type: ?	Length to Diameter: 19
Burner Type: ?	Volume (ft3): 14137
Precalciner: N	Bypass: Y
Preheater: N	Dust Recycle: Y
Comment:	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
307C1R1	HIGH END	905	13.2
307C1R2	HIGH END	880	12.9
307C1R3	HIGH END	907	13.2
307C1R4	HIGH END	893	13.3
307C2R1	HIGH END	1071	12.7
307C2R2	HIGH END	1136	11.5
307C2R3	HIGH END	1121	14.4
307C2R4	HIGH END	1121	11.8
307C3R1	HIGH END	954	11.7
307C3R2	HIGH END	961	11.5
307C3R3	HIGH END	977	11.7
307C3R4	HIGH END	966	11.9
307C4R1	HIGH END	1083	
307C4R2	HIGH END	1018	12.9
307C4R3	HIGH END	1119	11.6

1. COMPANY: SOLITE

2. STATE: FL

3. CITY: GREEN COVE SPRINGS EPA FLD004059085 REGION: 4

4. EP ID: 227 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 165	Manufacturer: VULCAN
Surface Area (ft2): 4145	Diameter (ft): 8
Refractory Type: ?	Length to Diameter: 20
Burner Type: ?	Volume (ft3): 8290
Precalciner: N	Bypass: N
Preheater: N	Dust Recycle: Y
Comment: FIXED	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
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SECTION 3: KILN DESIGN AND OPERATING INFORMATION

227C1R1	LOW END, BURNING ZONE	2235	
227C1R2	LOW END, BURNING ZONE	2414	
227C1R3	LOW END, BURNING ZONE	2361	

2. STATE: KY

3. CITY: BROOKS	EPA	KYD059568220	REGION:	4
4. EP ID: 310		DEVICE NAME: KILN NO. 2	SYSTEM TYPE: LWA KILN	APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 125	Manufacturer: ALLIS CHALMERS
Surface Area (ft2): 3140	Diameter (ft): 8
Refractory Type: FIREBRICK	Length to Diameter: 15
Burner Type: ?	Volume (ft3): 4810
Precalciner: N	Bypass: N
Preheater: N	Dust Recycle: ?
Comment: ROTARY KILN	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
310C1R1	COMBUSTION CHAMBER	2884	
310C1R2	COMBUSTION CHAMBER	2905	
310C1R3	COMBUSTION CHAMBER	2758	

2. STATE: NC

3. CITY: NORWOOD	EPA	NCD003152642	REGION:	4
4. EP ID: 223		DEVICE NAME: KILN NO. 5	SYSTEM TYPE: LWA KILN	APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 135	Manufacturer: VULCAN
Surface Area (ft2): 3815	Diameter (ft): 9
Refractory Type: ?	Length to Diameter: 15
Burner Type: ?	Volume (ft3): 6786
Precalciner: ?	Bypass: ?
Preheater: ?	Dust Recycle: ?
Comment: FIXED	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
223C1R1	LOW END, BURNING ZONE	2596	
223C1R2	LOW END, BURNING ZONE	2576	
223C1R3	LOW END, BURNING ZONE	2591	

4. EP ID: 224	DEVICE NAME: KILN NO. 6	SYSTEM TYPE: LWA KILN	APC SYS: FF
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5. Combustor Type: LWA KILN

SECTION 3: KILN DESIGN AND OPERATING INFORMATION

Chamber Specific Design Information

Chamber Name: KILN
 # of Devices: 1
 Length (ft): 175
 Surface Area (ft2): 4671
 Refractory Type: ?
 Burner Type: ?
 Precalciner: ?
 Preheater: ?
 Comment: FIXED

Chamber Type: SINGLE
 Manufacturer: VULCAN
 Diameter (ft): 8
 Length to Diameter: 20
 Volume (ft3): 7730
 Bypass: ?
 Dust Recycle: ?

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
224C1R1	LOW END, BURNING ZONE	2547	
224C1R2	LOW END, BURNING ZONE	2536	
224C1R3	LOW END, BURNING ZONE	2588	

4. EP ID: 225 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN
 # of Devices: 1
 Length (ft): 117
 Surface Area (ft2): 3306
 Refractory Type: ?
 Burner Type: ?
 Precalciner: ?
 Preheater: ?
 Comment: FIXED

Chamber Type: SINGLE
 Manufacturer: VULCAN
 Diameter (ft): 9
 Length to Diameter: 13
 Volume (ft3): 5881
 Bypass: ?
 Dust Recycle: ?

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
225C1R1	LOW END, BURNING ZONE	2576	
225C1R2	LOW END, BURNING ZONE	2681	
225C1R3	LOW END, BURNING ZONE	2705	

4. EP ID: 226 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN
 # of Devices: 1
 Length (ft): 135
 Surface Area (ft2): 4239
 Refractory Type: ?
 Burner Type: ?
 Precalciner: ?
 Preheater: ?
 Comment: FIXED

Chamber Type: SINGLE
 Manufacturer: VULCAN
 Diameter (ft): 10
 Length to Diameter: 13
 Volume (ft3): 8587
 Bypass: ?
 Dust Recycle: ?

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
226C1R1	LOW END, BURNING ZONE	2747	
226C1R2	LOW END, BURNING ZONE	2716	
226C1R3	LOW END, BURNING ZONE	2705	

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SECTION 3: KILN DESIGN AND OPERATING INFORMATION

2. STATE: VA

3. CITY: ARVONIA EPA VAD042755082 REGION: 3

4. EP ID: 313 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 118	Manufacturer: KENNEDY VAN SAUN
Surface Area (ft2): 2965	Diameter (ft): 8
Refractory Type: FIREBRICK	Length to Diameter: 14
Burner Type: 10" PIPE	Volume (ft3): 5931
Precalciner: N	Bypass: N
Preheater: N	Dust Recycle: Y
Comment:	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
313C1R1	COMBUSTION CHAMBER	2438	
313C1R2	COMBUSTION CHAMBER	2403	
313C1R3	COMBUSTION CHAMBER	2325	

4. EP ID: 314 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 120	Manufacturer: KENNEDY VAN SAUN
Surface Area (ft2): 2638	Diameter (ft): 7
Refractory Type: FIREBRICK	Length to Diameter: 17
Burner Type: 10" PIPE	Volume (ft3): 4618
Precalciner: N	Bypass: N
Preheater: N	Dust Recycle: Y
Comment:	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
314C1R1	COMBUSTION CHAMBER	2318	
314C1R2	COMBUSTION CHAMBER	2259	
314C1R3	COMBUSTION CHAMBER	2217	

3. CITY: CASCADE EPA VAD046970521 REGION: 3

4. EP ID: 311 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

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SECTION 3: KILN DESIGN AND OPERATING INFORMATION

Chamber Specific Design Information

Chamber Name: KILN NO. 2	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 128	Manufacturer: VULCAN
Surface Area (ft ²): 3116	Diameter (ft): 7
Refractory Type: CASTABLE + FIREBRICK	Length to Diameter: 16
Burner Type: 4" ATOMIZING PIPE	Volume (ft ³): 6032
Precalciner: ?	Bypass: ?
Preheater: ?	Dust Recycle: ?
Comment:	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
311C1R1	COMBUSTION CHAMBER	2473	
311C1R2	COMBUSTION CHAMBER	2448	
311C1R3	COMBUSTION CHAMBER	2425	

4. EP ID: 312 DEVICE NAME: KILN NO. 4 SYSTEM TYPE: LWA KILN APC SYS: FF

5. Combustor Type: LWA KILN

Chamber Specific Design Information

Chamber Name: KILN	Chamber Type: SINGLE
# of Devices: 1	
Length (ft): 139	Manufacturer: VULCAN
Surface Area (ft ²): 4335	Diameter (ft): 9
Refractory Type: CASTABLE+FIREBRICK	Length to Diameter: 14
Burner Type: 4" ATOMIZING PIPE	Volume (ft ³): 10446
Precalciner: N	Bypass: Y
Preheater: N	Dust Recycle: ?
Comment:	

Chamber Specific Operating Information

6. Run ID	Measurement Location	Ave Temp (F)	Oxygen (%)
312C1R1	COMBUSTION CHAMBER	2773	
312C1R2	COMBUSTION CHAMBER	2811	
312C1R3	COMBUSTION CHAMBER	2811	

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

1. COMPANY: NORLITE

2. STATE: NY

3. CITY: COHOES EPA NYD080469935 REGION: 2

4. EP ID: 307 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: LWA KILN APC SYS: FF/VS

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN

Location: 1

of Devices: 1

Manufacturer: ?

Configuration: PULSE JET

Number of Compart: 3

Cloth Area (ft²): 1700

Number of Bags: 0

Induced: INDUCED

Fabric Type:

Air to Cloth Ratio (ft/min): 0

Maintenance Schedule:

Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
307C1R1	437	5.5	4.35
307C1R2	442	5.3	4.27
307C1R3	440	5.5	4.33
307C1R4	441	5.4	4.3
307C2R1	443	5.5	4.43
307C2R2	443	5.7	4.41
307C2R3	442	5.9	4.51
307C2R4	442	6.1	4.41
307C3R1	417	5.5	4.36
307C3R2	428	5.5	4.4
307C3R3	431	5.4	4.42
307C3R4	432	5.5	4.41
307C4R1	438	10.3	4.15
307C4R2	438	10.3	4.18
307C4R3	436	9.7	4.22

1. COMPANY: SOLITE

2. STATE: FL

3. CITY: GREEN COVE SPRINGS EPA FLD004059085 REGION: 4

4. EP ID: 227 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

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SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: LWA KILN
 # of Devices: 1
 Manufacturer: BHA
 Number of Compartments: 1
 Number of Bags: 960
 Fabric Type:
 Maintenance Schedule:
 Comment:

Location: 1
 Configuration: PULSE JET
 Cloth Area (ft²): 13950
 Induced: INDUCED
 Air to Cloth Ratio (ft/min): 0

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
227C1R1	351	4.8	2.73
227C1R2	406	4.9	2.91
227C1R3	397	4.9	2.89

2. STATE: KY

3. CITY: BROOKS EPA KYD059568220 REGION: 4

4. EP ID: 310 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN
 # of Devices: 1
 Manufacturer: MIKROPULSE
 Number of Compartments: 1
 Number of Bags: 920
 Fabric Type: NEEDLE FELT
 Maintenance Schedule:
 Comment:

Location: 1
 Configuration: PULSE JET
 Cloth Area (ft²): 13371
 Induced: INDUCED
 Air to Cloth Ratio (ft/min): 0

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
310C1R1	324	4.3	3.62
310C1R2	325	4.2	3.61
310C1R3	326	4.2	3.64

2. STATE: NC

3. CITY: NORWOOD EPA NCD003152642 REGION: 4

4. EP ID: 223 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

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SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: LWA KILN	Location: 1
# of Devices: 1	
Manufacturer: BHA	Configuration: REVERSE FLOW
Number of Compartments: 5	Cloth Area (ft ²): 29155
Number of Bags: 580	Induced: INDUCED
Fabric Type: FIBERGLASS	Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:	
Comment:	

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
223C1R1	412	4.8	1.28
223C1R2	413	4.8	1.16
223C1R3	407	4.2	1.02

4. EP ID: 224 DEVICE NAME: KILN NO. 6 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN	Location: 1
# of Devices: 1	
Manufacturer: BHA	Configuration: REVERSE FLOW
Number of Compartments: 5	Cloth Area (ft ²): 29155
Number of Bags: 580	Induced: INDUCED
Fabric Type: FIBERGLASS	Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:	
Comment:	

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
224C1R1	356	5.1	1.41
224C1R2	396	5.6	1.48
224C1R3	397	5.8	1.49

4. EP ID: 225 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN	Location: 1
# of Devices: 1	
Manufacturer: BHA	Configuration: REVERSE FLOW
Number of Compartments: 5	Cloth Area (ft ²): 29155
Number of Bags: 580	Induced: INDUCED
Fabric Type: FIBERGLASS	Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:	
Comment:	

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
225C1R1	398	6	1.44
225C1R2	398	6.3	1.48
225C1R3	399	5.3	1.52

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SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

4. EP ID: 226 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN	Location: 1
# of Devices: 1	
Manufacturer: BHA	Configuration: REVERSE FLOW
Number of Compartments: 6	Cloth Area (ft ²): 34986
Number of Bags: 696	Induced: INDUCED
Fabric Type: FIBERGLASS	Air to Cloth Ratio (ft/min): 0
Maintenance Schedule:	
Comment:	

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
226C1R1	417	4.4	0
226C1R2	423	4.5	0
226C1R3	427	4.1	0

2. STATE: VA

3. CITY: ARVONIA EPA VAD042755082 REGION: 3

4. EP ID: 313 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN	Location: 1
# of Devices: 1	
Manufacturer: BHA	Configuration: REVERSE FLOW
Number of Compartments: 5	Cloth Area (ft ²): 29155
Number of Bags: 580	Induced: INDUCED
Fabric Type: FIBERGLASS	Air to Cloth Ratio (ft/min): 2.23
Maintenance Schedule:	
Comment:	

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
313C1R1	419	4.5	1.45
313C1R2	419	3	1.4
313C1R3	420	4.5	1.31

4. EP ID: 314 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

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SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

Design Information

Controls Emissions from: LWA KILN Location: 1
 # of Devices: 1
 Manufacturer: BHA Configuration: REVERSE FLOW
 Number of Compartments: 5 Cloth Area (ft²): 29155
 Number of Bags: 580 Induced: INDUCED
 Fabric Type: FIBERGLASS Air to Cloth Ratio (ft/min): 2.23
 Maintenance Schedule:
 Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
314C1R1	443	5.3	1.49
314C1R2	440	4	1.43
314C1R3	429	3	1.32

3. CITY: CASCADE EPA VAD046970521 REGION: 3

4. EP ID: 311 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN Location: 1
 # of Devices: 1
 Manufacturer: BHA Configuration: REVERSE FLOW
 Number of Compartments: 5 Cloth Area (ft²): 29155
 Number of Bags: 580 Induced: INDUCED
 Fabric Type: FIBERGLASS Air to Cloth Ratio (ft/min): 2.23
 Maintenance Schedule:
 Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
311C1R1	423	3.2	1.97
311C1R2	401	5.2	1.93
311C1R3	412	6.1	1.84

4. EP ID: 312 DEVICE NAME: KINL NO. 4 SYSTEM TYPE: LWA KILN APC SYS: FF

5. APC Device Type: FF

Design Information

Controls Emissions from: LWA KILN Location: 1
 # of Devices: 1
 Manufacturer: BHA Configuration: REVERSE FLOW
 Number of Compartments: 5 Cloth Area (ft²): 29155
 Number of Bags: 580 Induced: INDUCED
 Fabric Type: FIBERGLASS Air to Cloth Ratio (ft/min): 2.23
 Maintenance Schedule:
 Comment:

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H ₂ O)	Air to Cloth (ft/min)
312C1R1	426	4.4	1.79
312C1R2	424	3.8	1.8

US EPA ARCHIVE DOCUMENT

SECTION 4b: FABRIC FILTER DESIGN AND OPERATING INFORMATION

312C1R3	425	4.8	1.8
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SECTION 4d: VENTURI SCRUBBER DESIGN AND OPERATING INFORMATION

1. COMPANY: NORLITE

2. STATE: NY

3. CITY: COHOES EPA NYD080469935 REGION: 2

4. EP ID: 307 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: LWA KILN APC SYS: FF/VS

5. APC Device Type: VS

Design Information

Controls Emissions from: LWA KILN

Location: 2

of Devices: 1

Manufacturer: ?

Configuration: FIXED THROAT

Reagent:

Comment: LOCATED AFTER FABRIC FILTER

Operating Information

6. Run ID	Temp (F)	Pressure Drop (in. H2O)	Liquid to Gas (gal/kacf)	PH	Reagent to Gas (lb/kacf)
307C1R1	0	5.1	0	9.2	0
307C1R2	0	5	0	9.1	0
307C1R3	0	5	0	9.2	0
307C1R4	0	5	0	9.2	0
307C2R1	0	5	0	9.2	0
307C2R2	0	5	0	8.6	0
307C2R3	0	4.9	0	8.7	0
307C2R4	0	4.9	0	9.3	0
307C3R1	0	5.4	0	9.3	0
307C3R2	0	5.3	0	9.2	0
307C3R3	0	5.3	0	9.3	0
307C3R4	0	5.3	0	9.2	0
307C4R1	0	4.3	0	9.3	0
307C4R2	0	4.3	0	9.4	0
307C4R3	0	4.5	0	9	0

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SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1 EPA ID: NYD080469935 REGION: 2
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF/VS

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 120

Stack Diameter (in): 48

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
307C1R1	Multiple	36865 dscfm	138	15.7	15.2
307C1R2	Multiple	36495 dscfm	138	15.5	14.1
307C1R3	Multiple	36488 dscfm	137	15.8	15.5
307C1R4	Multiple	36004 dscfm	139	15.5	16
307C2R1	Multiple	37427 dscfm	133	14.9	15
307C2R2	Multiple	37404 dscfm	132	15.2	14.7
307C2R3	Multiple	37980 dscfm	131	15.2	15.3
307C2R4	Multiple	37711 dscfm	129	15.4	14
307C3R1	Multiple	37835 dscfm	135	15	15.1
307C3R2	Multiple	37326 dscfm	137	14.9	16
307C3R3	Multiple	37623 dscfm	145	14.8	15.4
307C3R4	Multiple	37183 dscfm	136	15	16.1
307C4R1	Multiple	35170 dscfm	136	14.2	15.1
307C4R2	Multiple	35535 dscfm	135	14.9	14.9
307C4R3	Multiple	36136 dscfm	132	15.4	14.5

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SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: FL
 3. CITY: GREEN COVE SPRINGS EPA FLD004059085 REGION: 4
 4. EP ID: 227 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 80

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
227C1R1	Multiple	19331 dscfm	338	12.6	22
227C1R2	Multiple	19743 dscfm	373	12.5	20.3
227C1R3	Multiple	19277 dscfm	388	12.9	22.4

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: KY
 3. CITY: BROOKS
 4. EP ID: 310 DEVICE NAME: KILN NO. 2 EPA ID: KYD059568220 REGION: 4
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 50

Stack Diameter (in): 76

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
310C1R1	Multiple	28833 dscfm	316	17.6	11.5
310C1R2	Multiple	28500 dscfm	308	17.8	12.2
310C1R3	Multiple	28600 dscfm	318	17.7	12.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD EPA ID: NCD003152642 REGION: 4
 4. EP ID: 223 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 90

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
223C1R1	Multiple	18828 dscfm	306	15.1	16.5
223C1R2	Multiple	16662 dscfm	297	14	18.8
223C1R3	Multiple	14613 dscfm	277	13.1	19.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD EPA ID: NCD003152642 REGION: 4
 4. EP ID: 224 DEVICE NAME: KILN NO. 6 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 90

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
224C1R1	Multiple	23342 dscfm	312	14.8	12.4
224C1R2	Multiple	23201 dscfm	314	14.8	13
224C1R3	Multiple	23394 dscfm	312	14.8	12.4

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD EPA ID: NCD003152642 REGION: 4
 4. EP ID: 225 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft):

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
225C1R1	Multiple	21801 dscfm	297	4.5	15.5
225C1R2	Multiple	22958 dscfm	303	4.7	13.5
225C1R3	Multiple	23179 dscfm	306	4.4	14.8

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD EPA ID: NCD003152642 REGION: 4
 4. EP ID: 226 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 90

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
226C1R1	Multiple				
226C1R2	Multiple				
226C1R3	Multiple				

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA EPA ID: VAD042755082 REGION: 3
 4. EP ID: 313 DEVICE NAME: KILN NO. 7 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 72

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
313C1R1	Multiple	22600 dscfm	343	15.1	10.9
313C1R2	Multiple	21500 dscfm	343	14.8	12.2
313C1R3	Multiple	20000 dscfm	338	14.5	12.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA EPA ID: VAD042755082 REGION: 3
 4. EP ID: 314 DEVICE NAME: KILN NO. 8 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 72

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
314C1R1	Multiple	22600 dscfm	343	15.1	10.9
314C1R2	Multiple	21500 dscfm	343	14.8	12.2
314C1R3	Multiple	20000 dscfm	338	14.5	12.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE EPA ID: VAD046970521 REGION: 3
 4. EP ID: 311 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 72

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
311C1R1	Multiple	32500 dscfm	350	17	5.4
311C1R2	Multiple	32400 dscfm	344	17.3	6.2
311C1R3	Multiple	30400 dscfm	344	17.1	6.6

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE EPA ID: VAD046970521 REGION: 3
 4. EP ID: 312 DEVICE NAME: KINL NO. 4 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft): 72

Stack Diameter (in): 52

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
312C1R1	Multiple	28100 dscfm	344	16	9.7
312C1R2	Multiple	27800 dscfm	338	15.9	11.2
312C1R3	Multiple	28200 dscfm	349	16.1	10.1

SECTION 5: AIR EMISSION STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE EPA ID: VAD046970521 REGION: 3
 4. EP ID: 336 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Additional ID Information

Process Group: LWA KILN

Location: STACK

Phase: GAS

Stack Information

Stack Height (ft):

Stack Diameter (in): 51

Stream Rates and Properties

7. Run ID	Method	Process Rate	Temp (F)	Oxygen (%)	Moisture (%)
336C1R1	Multiple	20377 dscfm	317	16.8	4.5
336C1R2	Multiple	19886 dscfm	314	17	4.5
336C2R1	Multiple	19007 dscfm	310	17.1	4.5

SECTION 6: OTHER STREAM RATES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1 EPA ID: NYD080469935 REGION: 2
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF/VS

5. Type: AGGREGATE

6. Description: PRODUCT

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1						
307C2R12						
307C2R34						
307C3R1						
307C3R12						
307C3R2						
307C3R3						
307C3R34						
307C3R4						
307C4R1						
307C4R12						
307C4R2						
307C4R3						
307C4R34						

5. Type: BLOWDOWN

6. Description:

Additional ID Information

Process Group: LWA KILN Location: VS Phase: LIQUID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1						
307C1R1	32 gpm					
307C1R2	31 gpm					
307C1R3	31 gpm					
307C1R4	31 gpm					
307C2R1	32 gpm					
307C2R12	31 gpm					
307C2R2	33 gpm					
307C2R3	29 gpm					
307C2R34	29 gpm					
307C2R4	30 gpm					
307C3R1	36 gpm					
307C3R12	33 gpm					
307C3R2	31 gpm					
307C3R3	34 gpm					
307C3R34	33 gpm					
307C3R4	33 gpm					
307C4R1	30 gpm					
307C4R12	31 gpm					
307C4R2	32 gpm					
307C4R3	32 gpm					
307C4R34	32 gpm					

5. Type: FF ASH

6. Description: RECYCLE

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1
 EPA ID: NYD080469935
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF/VS
 REGION: 2

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1						
307C1R1						
307C1R2						
307C1R3						
307C1R4						
307C2R1						
307C2R12						
307C2R2						
307C2R3						
307C2R34						
307C2R4						
307C3R1						
307C3R12						
307C3R2						
307C3R3						
307C3R34						
307C3R4						
307C4R1						
307C4R12						
307C4R2						
307C4R3						
307C4R34						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1R1	52000 lbs/hr					
307C1R2	54000 lbs/hr					
307C1R3	54000 lbs/hr					
307C1R4	52000 lbs/hr					
307C2R1	50000 lbs/hr					
307C2R2	48000 lbs/hr					
307C2R3	48000 lbs/hr					
307C2R4	50000 lbs/hr					
307C3R1	50000 lbs/hr					
307C3R2	54000 lbs/hr					
307C3R3	52000 lbs/hr					
307C3R4	52000 lbs/hr					
307C4R1	52000 lbs/hr					
307C4R2	52000 lbs/hr					
307C4R3	54000 lbs/hr					

5. Type: SPIKE

6. Description: METALS (AS,BA,BE,CD,CR,HG,NI,SE,AG,TL)

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1
 EPA ID: NYD080469935
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF/VS
 REGION: 2

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ? Feed Location: LOWEND
 Manufacturer: ? Number of Burners: ?

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1R1	105 lbs/hr					
307C1R2	99 lbs/hr					
307C1R3	99 lbs/hr					
307C1R4	98 lbs/hr					
307C2R1	104 lbs/hr					
307C2R2	101 lbs/hr					
307C2R3	104 lbs/hr					
307C2R4	104 lbs/hr					
307C3R1	98 lbs/hr					
307C3R2	99 lbs/hr					
307C3R3	99 lbs/hr					
307C3R4	100 lbs/hr					
307C4R1	104 lbs/hr					
307C4R2	108 lbs/hr					
307C4R3	105 lbs/hr					

6. Description: ORGANICS (CCL4,PCE,MCB,TCE)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ? Feed Location: LOWEND
 Manufacturer: ? Number of Burners: ?

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1R1	199 lbs/hr					
307C1R2	196 lbs/hr					
307C1R3	200 lbs/hr					
307C1R4	201 lbs/hr					
307C2R1	529 lbs/hr					
307C2R2	537 lbs/hr					
307C2R3	554 lbs/hr					
307C2R4	542 lbs/hr					
307C3R1	189 lbs/hr					
307C3R2	167 lbs/hr					
307C3R3	152 lbs/hr					
307C3R4	152 lbs/hr					
307C4R1	265 lbs/hr					
307C4R2	389 lbs/hr					
307C4R3	512 lbs/hr					

5. Type: WASTE

6. Description:

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ATOMIZED LIQUID Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
307C1R1	5359 lbs/hr		9400 Btu/lb			
307C1R2	5359 lbs/hr		9700 Btu/lb			
307C1R3	5306 lbs/hr		8300 Btu/lb			
307C1R4	5307 lbs/hr		9000 Btu/lb			

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: NORLITE

2. STATE: NY

3. CITY: COHOES

4. EP ID: 307 DEVICE NAME: KILN NO. 1

EPA ID: NYD080469935

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF/VS

REGION: 2

307C2R1	5306 lbs/hr		10000	Btu/lb			
307C2R2	5306 lbs/hr		10000	Btu/lb			
307C2R3	5358 lbs/hr		11000	Btu/lb			
307C2R4	5358 lbs/hr		9800	Btu/lb			
307C3R1	5306 lbs/hr		8200	Btu/lb			
307C3R2	5306 lbs/hr		8200	Btu/lb			
307C3R3	5358 lbs/hr		8600	Btu/lb			
307C3R4	5358 lbs/hr		8600	Btu/lb			
307C4R1	5306 lbs/hr		9500	Btu/lb			
307C4R2	5306 lbs/hr		11000	Btu/lb			
307C4R3	5358 lbs/hr		11000	Btu/lb			

Additional ID Information

Process Group: LWA KILN

Location: KILN

Phase: SOLID

Feed Stream Information

Feed Mechanism: DISPLACEMENT PUMP

Feed Location: LOWEND

Manufacturer: ?

Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft ³	Ash (%)
307C3R1	1142 lbs/hr					
307C3R2	1037 lbs/hr					
307C3R3	978 lbs/hr					
307C3R4	1038 lbs/hr					
307C4R1	1136 lbs/hr					
307C4R2	842 lbs/hr					

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: FL
 3. CITY: GREEN COVE SPRINGS
 4. EP ID: 227 DEVICE NAME: KILN NO. 5 EPA ID: FLD004059085 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 4

5. Type: AGGREGATE

6. Description: PRODUCT

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
227C1R1						
227C1R2						
227C1R3						

5. Type: FF ASH

6. Description: RECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
227C1R1						
227C1R2						
227C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
227C1R1	41520 lbs/hr	27.8				
227C1R2	38620 lbs/hr	26.2				
227C1R3	38700 lbs/hr	25				

5. Type: WASTE

6. Description:

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ATOMIZED LIQUIDS Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
227C1R1	3937 lbs/hr	9.9	11475 Btu/lb			1.7
227C1R2	3841 lbs/hr	11.2	11425 Btu/lb			1.8
227C1R3	3899 lbs/hr	12.3	10975 Btu/lb			1.9

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: KY
 3. CITY: BROOKS
 4. EP ID: 310 DEVICE NAME: KILN NO. 2 EPA ID: KYD059568220 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 4

5. Type: FF ASH

6. Description: NONRECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
310C1R1						
310C1R2						
310C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
310C1R1	17295 lbs/hr					
310C1R2	17094 lbs/hr					
310C1R3	17235 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,BE,CD,CR6,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: MULT-FUEL BURNER Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
310C1R1	2968 lbs/hr		8310 Btu/lb		56.2	.1
310C1R2	2762 lbs/hr		8010 Btu/lb		56.2	
310C1R3	2947 lbs/hr		7940 Btu/lb		56.1	.1

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 223 DEVICE NAME: KILN NO. 5 EPA ID: NCD003152642 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 4

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
223C1R1	18260 lbs/hr					
223C1R2	21920 lbs/hr					
223C1R3	23660 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (CR6)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ATOMIZED LIQUIDS Feed Location: LOW END
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
223C1R1	2505 lbs/hr		12851 Btu/lb			
223C1R2	2737 lbs/hr					
223C1R3	2790 lbs/hr		12721 Btu/lb			

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 224 DEVICE NAME: KILN NO. 6

EPA ID: NCD003152642
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF

REGION: 4

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
224C1R1	18140 lbs/hr					
224C1R2	20460 lbs/hr					
224C1R3	20480 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (CR6)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ATOMIZED LIQUIDS Feed Location: LOW END
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
224C1R1	2674 lbs/hr		12602 Btu/lb			
224C1R2	2875 lbs/hr		13140 Btu/lb			
224C1R3	2899 lbs/hr		13555 Btu/lb			

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 225 DEVICE NAME: KILN NO. 7 EPA ID: NCD003152642 REGION: 4
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
225C1R1	23840 lbs/hr					
225C1R2	23580 lbs/hr					
225C1R3	23740 lbs/hr					

5. Type: WASTE

6. Description:

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ? Feed Location: LOWEND
 Manufacturer: ? Number of Burners: ?

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
225C1R1	3432 lbs/hr		11740 Btu/lb			
225C1R2	3380 lbs/hr		12411 Btu/lb			
225C1R3	3412 lbs/hr		11984 Btu/lb			

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 226 DEVICE NAME: KILN NO. 8 EPA ID: NCD003152642 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 4

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
226C1R1	27000 lbs/hr					
226C1R2	26400 lbs/hr					
226C1R3	26960 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,BE,CD,CR6,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ATOMIZED LIQUIDS Feed Location: LOW END
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
226C1R1	3613 lbs/hr		8363 Btu/lb			
226C1R2	3648 lbs/hr		9141 Btu/lb			
226C1R3	3659 lbs/hr		10165 Btu/lb			

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA
 4. EP ID: 313 DEVICE NAME: KILN NO. 7 EPA ID: VAD042755082 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 3

5. Type: AGGREGATE

6. Description: PRODUCT

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: CHUTE Feed Location: LOWEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
313C1R1						
313C1R2						
313C1R3						

5. Type: FF ASH

6. Description: NONRECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
313C1R1						
313C1R2						
313C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: CHUTE Feed Location: HIGHEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
313C1R1	25793 lbs/hr					
313C1R2	26433 lbs/hr					
313C1R3	24823 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,CD,CR,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: MULTI-FUEL BURNER Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
313C1R1	2849 lbs/hr		14300 Btu/lb		58.7	.2
313C1R2	3026 lbs/hr		14400 Btu/lb		57.7	
313C1R3	2882 lbs/hr		13800 Btu/lb		59	.1

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA
 4. EP ID: 314 DEVICE NAME: KILN NO. 8 EPA ID: VAD042755082 SYSTEM TYPE: LWA KILN APC SYSTEM: FF REGION: 3

5. Type: AGGREGATE

6. Description: PRODUCT

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: CHUTE Feed Location: LOWEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
314C1R1						
314C1R2						
314C1R3						

5. Type: FF ASH

6. Description: NONRECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: CHUTE Feed Location: LOWEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
314C1R1						
314C1R2						
314C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: CHUTE Feed Location: HIGHEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
314C1R1	30427 lbs/hr					
314C1R2	30026 lbs/hr					
314C1R3	30827 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,BE,CD,CR6,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: MULTI-FUEL BURNER Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
314C1R1	3122 lbs/hr		16100 Btu/lb		54	
314C1R2	3242 lbs/hr		16300 Btu/lb		55.9	.2
314C1R3	3002 lbs/hr		16400 Btu/lb		55.2	.1

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE
 4. EP ID: 311 DEVICE NAME: KILN NO. 2 EPA ID: VAD046970521 REGION: 3
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: FF ASH

6. Description: NONRECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
311C1R1						
311C1R2						
311C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: GRAVITY Feed Location: HIGHEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
311C1R1	23831 lbs/hr					
311C1R2	28417 lbs/hr					
311C1R3	28417 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,CD,CR6,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: MULT-FUEL BURNER Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
311C1R1	2735 lbs/hr		12100 Btu/lb		56.7	.2
311C1R2	2656 lbs/hr		10000 Btu/lb		56.4	.3
311C1R3	2560 lbs/hr		10700 Btu/lb		56.4	.6

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE
 4. EP ID: 312 DEVICE NAME: KINL NO. 4 EPA ID: VAD046970521 REGION: 3
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: FF ASH

6. Description: NONRECYCLE

Additional ID Information

Process Group: LWA KILN Location: FF Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
312C1R1						
312C1R2						
312C1R3						

5. Type: RAW MATERIAL

6. Description: SHALE

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: GRAVITY Feed Location: HIGHEND
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
312C1R1	31636 lbs/hr					
312C1R2	28218 lbs/hr					
312C1R3	28615 lbs/hr					

5. Type: WASTE

6. Description: SPIKED METALS (AS,CD,CR6,PB)

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: MULT-FUEL BURNER Feed Location: LOWEND
 Manufacturer: ? Number of Burners: 1

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
312C1R1	3099 lbs/hr		14800 Btu/lb		58.1	
312C1R2	3002 lbs/hr		14500 Btu/lb		57.9	
312C1R3	2940 lbs/hr		14600 Btu/lb		57.6	

US EPA ARCHIVE DOCUMENT

SECTION 6: OTHER STREAM RATES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE EPA ID: VAD046970521 REGION: 3
 4. EP ID: 336 DEVICE NAME: KILN NO. 1 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: RAW MATERIAL

6. Description:

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: SOLID

Feed Stream Information

Feed Mechanism: NA Feed Location: NA
 Manufacturer: NA Number of Burners: NA

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
336C1R1	17615 lbs/hr					
336C1R2	17615 lbs/hr					
336C2R1	13409 lbs/hr					

5. Type: WASTE

6. Description:

Additional ID Information

Process Group: LWA KILN Location: KILN Phase: LIQUID

Feed Stream Information

Feed Mechanism: ? Feed Location: LOWEND
 Manufacturer: ? Number of Burners: ?

Stream Rates and Properties

7. Run ID	Process Rate	Moisture (%)	Heating Value	Viscosity, cSt	Density, lb/ft3	Ash (%)
336C1R1	1699 lbs/hr					
336C1R2	1699 lbs/hr					
336C2R1	1471 lbs/hr					

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1 EPA ID: NYD080469935 REGION: 2
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF/VS

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	307C1R1	3.45e-1 ppmv 7%O2	5.30e-2 lbs/hr	CC7%O2
Chlorine	307C1R2	1.63e+0 ppmv 7%O2	2.58e-1 lbs/hr	CC7%O2
Chlorine	307C1R3	3.01e-1 ppmv 7%O2	4.50e-2 lbs/hr	CC7%O2
Chlorine	307C1R4	2.35e+0 ppmv 7%O2	3.67e-1 lbs/hr	CC7%O2
Chlorine	307C2R1	8.63e-1 ppmv 7%O2	1.55e-1 lbs/hr	CC7%O2
Chlorine	307C2R2	2.11e-1 ppmv 7%O2	3.60e-2 lbs/hr	CC7%O2
Chlorine	307C2R3	3.75e-1 ppmv 7%O2	6.50e-2 lbs/hr	CC7%O2
Chlorine	307C2R4	2.29e-1 ppmv 7%O2	3.80e-2 lbs/hr	CC7%O2
Chlorine	307C3R1	3.30e-1 ppmv 7%O2	5.90e-2 lbs/hr	CC7%O2
Chlorine	307C3R2	4.30e-1 ppmv 7%O2	7.70e-2 lbs/hr	CC7%O2
Chlorine	307C3R3	2.89e-1 ppmv 7%O2	5.30e-2 lbs/hr	CC7%O2
Chlorine	307C3R4	3.25e-1 ppmv 7%O2	5.70e-2 lbs/hr	CC7%O2
Chlorine	307C4R1	9.62e-1 ppmv 7%O2	1.81e-1 lbs/hr	CC7%O2
Chlorine	307C4R2	2.46e-1 ppmv 7%O2	4.20e-2 lbs/hr	CC7%O2
Chlorine	307C4R3	7.35e-1 ppmv 7%O2	1.17e-1 lbs/hr	CC7%O2
HCl	307C1R1	2.60e+1 ppmv 7%O2	2.06e+0 lbs/hr	CC7%O2
HCl	307C1R2	1.89e+1 ppmv 7%O2	1.54e+0 lbs/hr	CC7%O2
HCl	307C1R3	9.48e+1 ppmv 7%O2	7.29e+0 lbs/hr	CC7%O2
HCl	307C1R4	1.78e+1 ppmv 7%O2	1.43e+0 lbs/hr	CC7%O2
HCl	307C2R1	2.18e+1 ppmv 7%O2	2.02e+0 lbs/hr	CC7%O2
HCl	307C2R2	3.27e+1 ppmv 7%O2	2.88e+0 lbs/hr	CC7%O2
HCl	307C2R3	2.66e+1 ppmv 7%O2	2.37e+0 lbs/hr	CC7%O2
HCl	307C2R4	1.94e+1 ppmv 7%O2	1.66e+0 lbs/hr	CC7%O2
HCl	307C3R1	9.85e+0 ppmv 7%O2	9.06e-1 lbs/hr	CC7%O2
HCl	307C3R2	1.40e+1 ppmv 7%O2	1.29e+0 lbs/hr	CC7%O2
HCl	307C3R3	1.20e+1 ppmv 7%O2	1.13e+0 lbs/hr	CC7%O2
HCl	307C3R4	1.47e+1 ppmv 7%O2	1.33e+0 lbs/hr	CC7%O2
HCl	307C4R1	3.64e+1 ppmv 7%O2	3.53e+0 lbs/hr	CC7%O2
HCl	307C4R2	2.82e+1 ppmv 7%O2	2.48e+0 lbs/hr	CC7%O2
HCl	307C4R3	2.42e+1 ppmv 7%O2	1.99e+0 lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	307C1R1	9.51e+0 ug/dscm 7%O2	5.02e-4 lbs/hr	7%O2
Antimony	307C1R2	1.07e+1 ug/dscm 7%O2	5.76e-4 lbs/hr	7%O2
Antimony	307C1R3	4.31e+0 ug/dscm 7%O2	2.19e-4 lbs/hr	CE7%O2
Antimony	307C1R4	6.62e+0 ug/dscm 7%O2	3.51e-4 lbs/hr	CE7%O2
Antimony	307C2R1	3.44e+0 ug/dscm 7%O2	2.07e-4 lbs/hr	7%O2
Antimony	307C2R2	3.86e+0 ug/dscm 7%O2	2.25e-4 lbs/hr	7%O2
Antimony	307C2R3	4.10e+0 ug/dscm 7%O2	2.41e-4 lbs/hr	7%O2
Antimony	307C2R4	1.50e+0 ug/dscm 7%O2	8.45e-5 lbs/hr	7%O2
Antimony	307C3R1	8.17e+0 ug/dscm 7%O2	4.96e-4 lbs/hr	CE7%O2
Antimony	307C3R2	1.01e+1 ug/dscm 7%O2	6.15e-4 lbs/hr	CE7%O2
Antimony	307C3R3	1.13e+1 ug/dscm 7%O2	7.05e-4 lbs/hr	CE7%O2
Antimony	307C3R4	6.53e+0 ug/dscm 7%O2	3.90e-4 lbs/hr	CE7%O2
Antimony	307C4R1	1.30e+1 ug/dscm 7%O2	8.32e-4 lbs/hr	7%O2
Antimony	307C4R2	1.45e+1 ug/dscm 7%O2	8.32e-4 lbs/hr	7%O2
Antimony	307C4R3	6.00e+0 ug/dscm 7%O2	3.23e-4 lbs/hr	7%O2
Arsenic	307C1R1	2.11e+0 ug/dscm 7%O2	1.12e-4 lbs/hr	7%O2
Arsenic	307C1R2	ND 7.64e-1 ug/dscm 7%O2	3.59e-5 lbs/hr	7%O2
Arsenic	307C1R3	ND 5.38e-1 ug/dscm 7%O2	2.73e-5 lbs/hr	CE7%O2
Arsenic	307C1R4	ND 5.09e-1 ug/dscm 7%O2	2.70e-5 lbs/hr	CE7%O2
Arsenic	307C2R1	ND 2.30e-1 ug/dscm 7%O2	1.91e-5 lbs/hr	7%O2
Arsenic	307C2R2	ND 2.41e-1 ug/dscm 7%O2	1.76e-5 lbs/hr	7%O2
Arsenic	307C2R3	ND 2.41e-1 ug/dscm 7%O2	1.91e-5 lbs/hr	7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307

DEVICE NAME: KILN NO. 1

EPA NYD080469935
 SYSTEM TYPE: LWA KILN

APC SYSTEM: FF/VS

REGION: 2

Arsenic	307C2R4	ND	2.50e-1	ug/dscm	7%O2	1.92e-5	lbs/hr	7%O2
Arsenic	307C3R1	ND	4.67e-1	ug/dscm	7%O2	2.83e-5	lbs/hr	CE7%O2
Arsenic	307C3R2	ND	4.59e-1	ug/dscm	7%O2	2.80e-5	lbs/hr	CE7%O2
Arsenic	307C3R3		4.06e+0	ug/dscm	7%O2	2.54e-4	lbs/hr	CE7%O2
Arsenic	307C3R4		5.83e+0	ug/dscm	7%O2	3.48e-4	lbs/hr	CE7%O2
Arsenic	307C4R1		6.18e-1	ug/dscm	7%O2	3.41e-5	lbs/hr	7%O2
Arsenic	307C4R2		6.89e-1	ug/dscm	7%O2	3.41e-5	lbs/hr	7%O2
Arsenic	307C4R3		1.50e+0	ug/dscm	7%O2	7.97e-5	lbs/hr	7%O2
Barium	307C1R1	ND	3.17e+0	ug/dscm	7%O2	1.65e-4	lbs/hr	7%O2
Barium	307C1R2	ND	3.05e+0	ug/dscm	7%O2	1.64e-4	lbs/hr	CE7%O2
Barium	307C1R3	ND	3.23e+0	ug/dscm	7%O2	1.64e-4	lbs/hr	CE7%O2
Barium	307C1R4	ND	3.05e+0	ug/dscm	7%O2	1.62e-4	lbs/hr	CE7%O2
Barium	307C2R1		2.52e+0	ug/dscm	7%O2	1.51e-4	lbs/hr	7%O2
Barium	307C2R2	ND	1.45e+0	ug/dscm	7%O2	8.81e-5	lbs/hr	7%O2
Barium	307C2R3		2.90e+0	ug/dscm	7%O2	1.67e-4	lbs/hr	7%O2
Barium	307C2R4		1.75e+0	ug/dscm	7%O2	1.04e-4	lbs/hr	7%O2
Barium	307C3R1	ND	2.57e+0	ug/dscm	7%O2	1.56e-4	lbs/hr	CE7%O2
Barium	307C3R2	ND	2.75e+0	ug/dscm	7%O2	1.68e-4	lbs/hr	CE7%O2
Barium	307C3R3	ND	2.48e+0	ug/dscm	7%O2	1.55e-4	lbs/hr	CE7%O2
Barium	307C3R4	ND	2.33e+0	ug/dscm	7%O2	1.39e-4	lbs/hr	CE7%O2
Barium	307C4R1	ND	2.47e+0	ug/dscm	7%O2	1.59e-4	lbs/hr	7%O2
Barium	307C4R2	ND	2.75e+0	ug/dscm	7%O2	1.59e-4	lbs/hr	7%O2
Barium	307C4R3		5.00e-1	ug/dscm	7%O2	2.79e-5	lbs/hr	7%O2
Beryllium	307C1R1	ND	2.64e-1	ug/dscm	7%O2	1.31e-5	lbs/hr	7%O2
Beryllium	307C1R2	ND	2.55e-1	ug/dscm	7%O2	1.37e-5	lbs/hr	CE7%O2
Beryllium	307C1R3	ND	2.69e-1	ug/dscm	7%O2	1.37e-5	lbs/hr	CE7%O2
Beryllium	307C1R4	ND	2.55e-1	ug/dscm	7%O2	1.35e-5	lbs/hr	CE7%O2
Beryllium	307C2R1	ND	2.30e-1	ug/dscm	7%O2	1.27e-5	lbs/hr	7%O2
Beryllium	307C2R2	ND	2.41e-1	ug/dscm	7%O2	1.17e-5	lbs/hr	7%O2
Beryllium	307C2R3	ND	2.41e-1	ug/dscm	7%O2	1.28e-5	lbs/hr	7%O2
Beryllium	307C2R4	ND	2.50e-1	ug/dscm	7%O2	1.28e-5	lbs/hr	7%O2
Beryllium	307C3R1	ND	2.33e-1	ug/dscm	7%O2	1.42e-5	lbs/hr	CE7%O2
Beryllium	307C3R2	ND	2.30e-1	ug/dscm	7%O2	1.40e-5	lbs/hr	CE7%O2
Beryllium	307C3R3	ND	2.26e-1	ug/dscm	7%O2	1.41e-5	lbs/hr	CE7%O2
Beryllium	307C3R4	ND	2.33e-1	ug/dscm	7%O2	1.39e-5	lbs/hr	CE7%O2
Beryllium	307C4R1	ND	2.06e-1	ug/dscm	7%O2	1.27e-5	lbs/hr	7%O2
Beryllium	307C4R2	ND	2.30e-1	ug/dscm	7%O2	1.27e-5	lbs/hr	7%O2
Beryllium	307C4R3	ND	2.50e-1	ug/dscm	7%O2	1.30e-5	lbs/hr	7%O2
Cadmium	307C1R1		1.16e+1	ug/dscm	7%O2	6.13e-4	lbs/hr	7%O2
Cadmium	307C1R2		5.60e+0	ug/dscm	7%O2	3.01e-4	lbs/hr	CE7%O2
Cadmium	307C1R3		5.65e+0	ug/dscm	7%O2	2.87e-4	lbs/hr	CE7%O2
Cadmium	307C1R4		6.87e+0	ug/dscm	7%O2	3.64e-4	lbs/hr	CE7%O2
Cadmium	307C2R1		4.13e+0	ug/dscm	7%O2	2.47e-4	lbs/hr	7%O2
Cadmium	307C2R2		8.45e+0	ug/dscm	7%O2	4.89e-4	lbs/hr	7%O2
Cadmium	307C2R3		2.90e+0	ug/dscm	7%O2	1.65e-4	lbs/hr	7%O2
Cadmium	307C2R4		4.50e+0	ug/dscm	7%O2	2.56e-4	lbs/hr	7%O2
Cadmium	307C3R1		5.83e+0	ug/dscm	7%O2	3.54e-4	lbs/hr	CE7%O2
Cadmium	307C3R2		1.38e+0	ug/dscm	7%O2	8.39e-5	lbs/hr	CE7%O2
Cadmium	307C3R3		3.39e+0	ug/dscm	7%O2	2.11e-4	lbs/hr	CE7%O2
Cadmium	307C3R4		1.87e+0	ug/dscm	7%O2	1.11e-4	lbs/hr	CE7%O2
Cadmium	307C4R1		1.24e+0	ug/dscm	7%O2	8.38e-5	lbs/hr	7%O2
Cadmium	307C4R2		1.38e+0	ug/dscm	7%O2	8.38e-5	lbs/hr	7%O2
Cadmium	307C4R3		4.25e+0	ug/dscm	7%O2	2.33e-4	lbs/hr	7%O2
Chromium	307C1R1		2.06e+1	ug/dscm	7%O2	1.08e-3	lbs/hr	7%O2
Chromium	307C1R2		1.62e+2	ug/dscm	7%O2	8.71e-3	lbs/hr	CE7%O2
Chromium	307C1R3		2.61e+1	ug/dscm	7%O2	1.33e-3	lbs/hr	CE7%O2
Chromium	307C1R4		2.21e+1	ug/dscm	7%O2	1.17e-3	lbs/hr	CE7%O2
Chromium	307C2R1		8.95e+0	ug/dscm	7%O2	5.50e-4	lbs/hr	7%O2
Chromium	307C2R2		7.39e+2	ug/dscm	7%O2	4.29e-2	lbs/hr	7%O2
Chromium	307C2R3		2.73e+1	ug/dscm	7%O2	1.60e-3	lbs/hr	7%O2
Chromium	307C2R4		3.58e+1	ug/dscm	7%O2	2.03e-3	lbs/hr	7%O2
Chromium	307C3R1		1.55e+2	ug/dscm	7%O2	9.40e-3	lbs/hr	CE7%O2
Chromium	307C3R2		1.05e+2	ug/dscm	7%O2	6.39e-3	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307

DEVICE NAME: KILN NO. 1

EPA NYD080469935
 SYSTEM TYPE: LWA KILN

APC SYSTEM: FF/VS

REGION: 2

Chromium	307C3R3		6.50e+1	ug/dscm	7%O2	4.06e-3	lbs/hr	CE7%O2
Chromium	307C3R4		1.15e+2	ug/dscm	7%O2	6.84e-3	lbs/hr	CE7%O2
Chromium	307C4R1		4.67e+1	ug/dscm	7%O2	2.99e-3	lbs/hr	7%O2
Chromium	307C4R2		5.21e+1	ug/dscm	7%O2	2.99e-3	lbs/hr	7%O2
Chromium	307C4R3		3.00e+2	ug/dscm	7%O2	1.63e-2	lbs/hr	7%O2
Chromium (Hex)	307C1R1		6.24e-1	ug/dscm	7%O2	3.26e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C1R2		3.74e-1	ug/dscm	7%O2	2.01e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C1R3		4.24e-1	ug/dscm	7%O2	2.15e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C1R4		1.46e-1	ug/dscm	7%O2	7.76e-6	lbs/hr	CC7%O2
Chromium (Hex)	307C2R1	ND	1.31e-1	ug/dscm	7%O2	8.00e-6	lbs/hr	CC7%O2
Chromium (Hex)	307C2R2		9.41e+0	ug/dscm	7%O2	5.46e-4	lbs/hr	CC7%O2
Chromium (Hex)	307C2R3		3.87e+0	ug/dscm	7%O2	2.28e-4	lbs/hr	CC7%O2
Chromium (Hex)	307C2R4		2.46e-1	ug/dscm	7%O2	1.39e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C3R1		1.44e-1	ug/dscm	7%O2	8.76e-6	lbs/hr	CC7%O2
Chromium (Hex)	307C3R2		3.55e-1	ug/dscm	7%O2	2.16e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C3R3		2.96e-1	ug/dscm	7%O2	1.85e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C3R4		1.66e-1	ug/dscm	7%O2	9.93e-6	lbs/hr	CC7%O2
Chromium (Hex)	307C4R1		1.84e-1	ug/dscm	7%O2	1.18e-5	lbs/hr	CC7%O2
Chromium (Hex)	307C4R2	ND	1.34e-1	ug/dscm	7%O2	7.76e-6	lbs/hr	CC7%O2
Chromium (Hex)	307C4R3		2.23e-1	ug/dscm	7%O2	1.21e-5	lbs/hr	CC7%O2
Lead	307C1R1		3.43e+0	ug/dscm	7%O2	1.82e-4	lbs/hr	7%O2
Lead	307C1R2		4.33e+0	ug/dscm	7%O2	2.32e-4	lbs/hr	CE7%O2
Lead	307C1R3		1.62e+0	ug/dscm	7%O2	8.20e-5	lbs/hr	CE7%O2
Lead	307C1R4		1.78e+0	ug/dscm	7%O2	9.44e-5	lbs/hr	CE7%O2
Lead	307C2R1		3.90e+0	ug/dscm	7%O2	2.38e-4	lbs/hr	7%O2
Lead	307C2R2		3.14e+0	ug/dscm	7%O2	1.86e-4	lbs/hr	7%O2
Lead	307C2R3		1.69e+0	ug/dscm	7%O2	1.02e-4	lbs/hr	7%O2
Lead	307C2R4		1.25e+0	ug/dscm	7%O2	6.91e-5	lbs/hr	7%O2
Lead	307C3R1		1.17e+0	ug/dscm	7%O2	7.09e-5	lbs/hr	CE7%O2
Lead	307C3R2		9.18e-1	ug/dscm	7%O2	5.59e-5	lbs/hr	CE7%O2
Lead	307C3R3		1.13e+0	ug/dscm	7%O2	7.05e-5	lbs/hr	CE7%O2
Lead	307C3R4		1.17e+0	ug/dscm	7%O2	6.96e-5	lbs/hr	CE7%O2
Lead	307C4R1		1.44e+0	ug/dscm	7%O2	9.40e-5	lbs/hr	7%O2
Lead	307C4R2		1.61e+0	ug/dscm	7%O2	9.40e-5	lbs/hr	7%O2
Lead	307C4R3		1.75e+0	ug/dscm	7%O2	8.88e-5	lbs/hr	7%O2
Mercury	307C1R1		4.56e+2	ug/dscm	7%O2	2.38e-2	lbs/hr	7%O2
Mercury	307C1R2		4.56e+2	ug/dscm	7%O2	2.45e-2	lbs/hr	CE7%O2
Mercury	307C1R3		4.51e+2	ug/dscm	7%O2	2.29e-2	lbs/hr	CE7%O2
Mercury	307C1R4		3.24e+2	ug/dscm	7%O2	1.72e-2	lbs/hr	CE7%O2
Mercury	307C2R1		4.16e+2	ug/dscm	7%O2	2.54e-2	lbs/hr	7%O2
Mercury	307C2R2		4.03e+2	ug/dscm	7%O2	2.34e-2	lbs/hr	7%O2
Mercury	307C2R3		6.66e+2	ug/dscm	7%O2	3.93e-2	lbs/hr	7%O2
Mercury	307C2R4		7.60e+2	ug/dscm	7%O2	4.33e-2	lbs/hr	7%O2
Mercury	307C3R1		4.31e+2	ug/dscm	7%O2	2.62e-2	lbs/hr	CE7%O2
Mercury	307C3R2		4.61e+2	ug/dscm	7%O2	2.81e-2	lbs/hr	CE7%O2
Mercury	307C3R3		4.84e+2	ug/dscm	7%O2	3.02e-2	lbs/hr	CE7%O2
Mercury	307C3R4		5.11e+2	ug/dscm	7%O2	3.05e-2	lbs/hr	CE7%O2
Mercury	307C4R1		4.72e+2	ug/dscm	7%O2	3.02e-2	lbs/hr	7%O2
Mercury	307C4R2		4.97e+2	ug/dscm	7%O2	2.88e-2	lbs/hr	7%O2
Mercury	307C4R3		5.11e+2	ug/dscm	7%O2	2.77e-2	lbs/hr	7%O2
Nickel	307C1R1		6.34e+0	ug/dscm	7%O2	3.29e-4	lbs/hr	7%O2
Nickel	307C1R2		1.33e+2	ug/dscm	7%O2	7.16e-3	lbs/hr	CE7%O2
Nickel	307C1R3	ND	3.23e+0	ug/dscm	7%O2	1.64e-4	lbs/hr	CE7%O2
Nickel	307C1R4	ND	3.05e+0	ug/dscm	7%O2	1.62e-4	lbs/hr	CE7%O2
Nickel	307C2R1		4.31e+1	ug/dscm	7%O2	2.63e-3	lbs/hr	7%O2
Nickel	307C2R2		4.97e+2	ug/dscm	7%O2	2.88e-2	lbs/hr	7%O2
Nickel	307C2R3		6.83e+1	ug/dscm	7%O2	4.03e-3	lbs/hr	7%O2
Nickel	307C2R4		8.10e+1	ug/dscm	7%O2	4.61e-3	lbs/hr	7%O2
Nickel	307C3R1		6.49e+1	ug/dscm	7%O2	3.94e-3	lbs/hr	CE7%O2
Nickel	307C3R2		5.12e+1	ug/dscm	7%O2	3.12e-3	lbs/hr	CE7%O2
Nickel	307C3R3		3.48e+1	ug/dscm	7%O2	2.17e-3	lbs/hr	CE7%O2
Nickel	307C3R4		5.06e+1	ug/dscm	7%O2	3.02e-3	lbs/hr	CE7%O2
Nickel	307C4R1		1.77e+1	ug/dscm	7%O2	1.13e-3	lbs/hr	7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307

DEVICE NAME: KILN NO. 1

EPA ID: NYD080469935
 SYSTEM TYPE: LWA KILN

APC SYSTEM: FF/VS

REGION: 2

Nickel	307C4R2	3.90e+1	ug/dscm	7%O2	2.26e-3	lbs/hr	7%O2
Nickel	307C4R3	1.28e+2	ug/dscm	7%O2	6.94e-3	lbs/hr	7%O2
Selenium	307C1R1	ND	5.28e-1	ug/dscm	7%O2	2.63e-5	lbs/hr
Selenium	307C1R2	ND	4.84e-1	ug/dscm	7%O2	2.60e-5	lbs/hr
Selenium	307C1R3	ND	5.38e-1	ug/dscm	7%O2	2.73e-5	lbs/hr
Selenium	307C1R4	ND	5.09e-1	ug/dscm	7%O2	2.70e-5	lbs/hr
Selenium	307C2R1		8.26e+0	ug/dscm	7%O2	5.02e-4	lbs/hr
Selenium	307C2R2		1.21e-1	ug/dscm	7%O2	6.99e-6	lbs/hr
Selenium	307C2R3	ND	5.41e-3	ug/dscm	7%O2	3.19e-7	lbs/hr
Selenium	307C2R4		9.75e+0	ug/dscm	7%O2	5.53e-4	lbs/hr
Selenium	307C3R1	ND	9.33e-1	ug/dscm	7%O2	5.67e-5	lbs/hr
Selenium	307C3R2	ND	4.36e-1	ug/dscm	7%O2	2.66e-5	lbs/hr
Selenium	307C3R3	ND	4.52e-1	ug/dscm	7%O2	2.82e-5	lbs/hr
Selenium	307C3R4		4.67e-1	ug/dscm	7%O2	2.79e-5	lbs/hr
Selenium	307C4R1	ND	4.12e-1	ug/dscm	7%O2	2.54e-5	lbs/hr
Selenium	307C4R2	ND	4.36e-1	ug/dscm	7%O2	2.56e-5	lbs/hr
Selenium	307C4R3	ND	5.00e-1	ug/dscm	7%O2	2.59e-5	lbs/hr
Silver	307C1R1	ND	7.92e-1	ug/dscm	7%O2	4.60e-5	lbs/hr
Silver	307C1R2	ND	7.64e-1	ug/dscm	7%O2	4.10e-5	lbs/hr
Silver	307C1R3	ND	8.08e-1	ug/dscm	7%O2	4.10e-5	lbs/hr
Silver	307C1R4	ND	7.64e-1	ug/dscm	7%O2	4.05e-5	lbs/hr
Silver	307C2R1		9.18e-1	ug/dscm	7%O2	5.62e-5	lbs/hr
Silver	307C2R2	ND	7.24e-1	ug/dscm	7%O2	4.11e-5	lbs/hr
Silver	307C2R3	ND	7.24e-1	ug/dscm	7%O2	4.47e-5	lbs/hr
Silver	307C2R4	ND	7.50e-1	ug/dscm	7%O2	4.48e-5	lbs/hr
Silver	307C3R1	ND	7.00e-1	ug/dscm	7%O2	4.25e-5	lbs/hr
Silver	307C3R2	ND	6.89e-1	ug/dscm	7%O2	4.19e-5	lbs/hr
Silver	307C3R3	ND	6.77e-1	ug/dscm	7%O2	4.23e-5	lbs/hr
Silver	307C3R4	ND	7.00e-1	ug/dscm	7%O2	4.18e-5	lbs/hr
Silver	307C4R1	ND	6.18e-1	ug/dscm	7%O2	4.45e-5	lbs/hr
Silver	307C4R2	ND	6.89e-1	ug/dscm	7%O2	4.48e-5	lbs/hr
Silver	307C4R3	ND	7.50e-1	ug/dscm	7%O2	4.54e-5	lbs/hr
Thallium	307C1R1		7.92e-1	ug/dscm	7%O2	3.75e-5	lbs/hr
Thallium	307C1R2	ND	5.09e-1	ug/dscm	7%O2	2.73e-5	lbs/hr
Thallium	307C1R3	ND	5.38e-1	ug/dscm	7%O2	2.73e-5	lbs/hr
Thallium	307C1R4	ND	5.09e-1	ug/dscm	7%O2	2.70e-5	lbs/hr
Thallium	307C2R1		4.59e-1	ug/dscm	7%O2	2.62e-5	lbs/hr
Thallium	307C2R2		4.83e-1	ug/dscm	7%O2	2.55e-5	lbs/hr
Thallium	307C2R3		2.41e-1	ug/dscm	7%O2	1.38e-5	lbs/hr
Thallium	307C2R4		2.50e-1	ug/dscm	7%O2	1.61e-5	lbs/hr
Thallium	307C3R1	ND	4.67e-1	ug/dscm	7%O2	2.83e-5	lbs/hr
Thallium	307C3R2	ND	4.59e-1	ug/dscm	7%O2	2.80e-5	lbs/hr
Thallium	307C3R3	ND	4.52e-1	ug/dscm	7%O2	2.82e-5	lbs/hr
Thallium	307C3R4	ND	4.67e-1	ug/dscm	7%O2	2.79e-5	lbs/hr
Thallium	307C4R1	ND	4.12e-1	ug/dscm	7%O2	3.18e-5	lbs/hr
Thallium	307C4R2	ND	4.59e-1	ug/dscm	7%O2	3.20e-5	lbs/hr
Thallium	307C4R3	ND	5.00e-1	ug/dscm	7%O2	3.24e-5	lbs/hr

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	307C1R1	8.50e-3 gr/dscf 7%O2	9.90e-1 lbs/hr	
Particulate	307C1R2	7.60e-3 gr/dscf 7%O2	9.40e-1 lbs/hr	
Particulate	307C1R3	1.17e-2 gr/dscf 7%O2	1.33e+0 lbs/hr	
Particulate	307C1R4	6.00e-3 gr/dscf 7%O2	7.40e-1 lbs/hr	
Particulate	307C2R1	1.12e-2 gr/dscf 7%O2	1.61e+0 lbs/hr	
Particulate	307C2R2	8.20e-3 gr/dscf 7%O2	1.08e+0 lbs/hr	
Particulate	307C2R3	5.80e-3 gr/dscf 7%O2	7.40e-1 lbs/hr	
Particulate	307C2R4	1.57e-2 gr/dscf 7%O2	1.95e+0 lbs/hr	
Particulate	307C3R1	1.42e-2 gr/dscf 7%O2	1.93e+0 lbs/hr	
Particulate	307C3R2	1.30e-2 gr/dscf 7%O2	1.80e+0 lbs/hr	
Particulate	307C3R3	3.71e-2 gr/dscf 7%O2	5.08e+0 lbs/hr	

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE
 2. STATE: NY
 3. CITY: COHOES
 4. EP ID: 307 DEVICE NAME: KILN NO. 1
 EPA NYD080469935
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF/VS
 REGION: 2

Particulate	307C3R4	2.54e-2	gr/dscf	7%O2	3.40e+0	lbs/hr	
Particulate	307C4R1	8.10e-3	gr/dscf	7%O2	1.16e+0	lbs/hr	
Particulate	307C4R2	5.90e-3	gr/dscf	7%O2	7.50e-1	lbs/hr	
Particulate	307C4R3	5.60e-3	gr/dscf	7%O2	6.70e-1	lbs/hr	

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc
CO	307C1R1	5.12e+1	ppmv 7%O2	3.12e+0 lbs/hr	CE7%O2
CO	307C1R2	4.33e+1	ppmv 7%O2	2.70e+0 lbs/hr	CE7%O2
CO	307C1R3	4.85e+1	ppmv 7%O2	2.86e+0 lbs/hr	CE7%O2
CO	307C1R4	4.02e+1	ppmv 7%O2	2.48e+0 lbs/hr	CE7%O2
CO	307C2R1	4.82e+1	ppmv 7%O2	3.42e+0 lbs/hr	CE7%O2
CO	307C2R2	4.34e+1	ppmv 7%O2	2.93e+0 lbs/hr	CE7%O2
CO	307C2R3	4.34e+1	ppmv 7%O2	2.98e+0 lbs/hr	CE7%O2
CO	307C2R4	5.10e+1	ppmv 7%O2	3.35e+0 lbs/hr	CE7%O2
CO	307C3R1	3.73e+1	ppmv 7%O2	2.64e+0 lbs/hr	CE7%O2
CO	307C3R2	3.97e+1	ppmv 7%O2	2.81e+0 lbs/hr	CE7%O2
CO	307C3R3	4.15e+1	ppmv 7%O2	3.02e+0 lbs/hr	CE7%O2
CO	307C3R4	4.62e+1	ppmv 7%O2	3.21e+0 lbs/hr	CE7%O2
CO	307C4R1	4.90e+1	ppmv 7%O2	3.65e+0 lbs/hr	CE7%O2
CO	307C4R2	4.84e+1	ppmv 7%O2	3.27e+0 lbs/hr	CE7%O2
CO	307C4R3	5.07e+1	ppmv 7%O2	3.20e+0 lbs/hr	CE7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID	Concentration		Mass Rate	Calc
1,1,1-Trichloroethane	307C1R1	ND	2.49e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C1R2	ND	2.42e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C1R3	ND	2.56e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C1R4	ND	2.45e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C2R1		2.13e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C2R2		3.74e+2 ng/dscm 7%O2	2.17e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C2R3		5.04e+2 ng/dscm 7%O2	2.97e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C2R4		2.30e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C3R1		4.94e+4 ng/dscm 7%O2	3.00e-3 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C3R2	ND	1.79e+3 ng/dscm 7%O2	1.09e-4 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C3R3	ND	1.91e+3 ng/dscm 7%O2	1.19e-4 lbs/hr	CC7%O2
1,1,1-Trichloroethane	307C3R4	ND	3.69e+3 ng/dscm 7%O2	2.20e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C1R1	ND	4.50e+3 ng/dscm 7%O2	2.35e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C1R2	ND	2.42e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
Carbon Tetrachloride	307C1R3	ND	2.56e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
Carbon Tetrachloride	307C1R4	ND	2.45e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
Carbon Tetrachloride	307C2R1		2.13e+2 ng/dscm 7%O2	1.30e-5 lbs/hr	CC7%O2
Carbon Tetrachloride	307C2R2		4.89e+3 ng/dscm 7%O2	2.84e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C2R3		2.87e+3 ng/dscm 7%O2	1.69e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C2R4		5.68e+3 ng/dscm 7%O2	3.21e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C3R1		1.25e+4 ng/dscm 7%O2	7.60e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C3R2		1.77e+4 ng/dscm 7%O2	1.08e-3 lbs/hr	CC7%O2
Carbon Tetrachloride	307C3R3		1.60e+4 ng/dscm 7%O2	9.97e-4 lbs/hr	CC7%O2
Carbon Tetrachloride	307C3R4		1.46e+4 ng/dscm 7%O2	8.71e-4 lbs/hr	CC7%O2
Chlorobenzene	307C1R1		1.32e+4 ng/dscm 7%O2	6.90e-4 lbs/hr	CC7%O2
Chlorobenzene	307C1R2		1.69e+4 ng/dscm 7%O2	9.07e-4 lbs/hr	CC7%O2
Chlorobenzene	307C1R3		2.13e+4 ng/dscm 7%O2	1.08e-3 lbs/hr	CC7%O2
Chlorobenzene	307C1R4		3.34e+4 ng/dscm 7%O2	1.77e-3 lbs/hr	CC7%O2
Chlorobenzene	307C2R1		1.28e+4 ng/dscm 7%O2	7.84e-4 lbs/hr	CC7%O2
Chlorobenzene	307C2R2		1.01e+4 ng/dscm 7%O2	5.84e-4 lbs/hr	CC7%O2
Chlorobenzene	307C2R3		1.20e+4 ng/dscm 7%O2	7.10e-4 lbs/hr	CC7%O2
Chlorobenzene	307C2R4		1.37e+4 ng/dscm 7%O2	7.73e-4 lbs/hr	CC7%O2
Chlorobenzene	307C3R1		1.83e+4 ng/dscm 7%O2	1.11e-3 lbs/hr	CC7%O2
Chlorobenzene	307C3R2		2.68e+4 ng/dscm 7%O2	1.63e-3 lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: NORLITE

2. STATE: NY

3. CITY: COHOES

EPA ID: NYD080469935

REGION: 2

4. EP ID: 307 DEVICE NAME: KILN NO. 1

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF/VS

Chlorobenzene	307C3R3	1.89e+4	ng/dscm	7%O2	1.18e-3	lbs/hr	CC7%O2
Chlorobenzene	307C3R4	1.91e+4	ng/dscm	7%O2	1.14e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C1R1	1.68e+4	ng/dscm	7%O2	8.80e-4	lbs/hr	CC7%O2
Tetrachloroethene	307C1R2	2.05e+4	ng/dscm	7%O2	1.10e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C1R3	2.23e+4	ng/dscm	7%O2	1.13e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C1R4	2.64e+4	ng/dscm	7%O2	1.40e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C2R1	1.15e+4	ng/dscm	7%O2	7.00e-4	lbs/hr	CC7%O2
Tetrachloroethene	307C2R2	1.10e+4	ng/dscm	7%O2	6.40e-4	lbs/hr	CC7%O2
Tetrachloroethene	307C2R3	9.50e+3	ng/dscm	7%O2	5.60e-4	lbs/hr	CC7%O2
Tetrachloroethene	307C2R4	1.38e+4	ng/dscm	7%O2	7.80e-4	lbs/hr	CC7%O2
Tetrachloroethene	307C3R1	2.14e+4	ng/dscm	7%O2	1.30e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C3R2	2.46e+4	ng/dscm	7%O2	1.50e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C3R3	1.68e+4	ng/dscm	7%O2	1.05e-3	lbs/hr	CC7%O2
Tetrachloroethene	307C3R4	1.37e+4	ng/dscm	7%O2	8.17e-4	lbs/hr	CC7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: FL
 3. CITY: GREEN COVE SPRINGS EPA FLD004059085 REGION: 4
 4. EP ID: 227 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	227C1R1	1.80e-1 ppmv 7%O2	2.30e-2 lbs/hr	CE7%O2
Chlorine	227C1R2	4.30e-1 ppmv 7%O2	5.68e-2 lbs/hr	CE7%O2
Chlorine	227C1R3	4.49e-1 ppmv 7%O2	5.53e-2 lbs/hr	CE7%O2
HCl	227C1R1	1.52e+3 ppmv 7%O2	1.01e+2 lbs/hr	7%O2
HCl	227C1R2	1.52e+3 ppmv 7%O2	1.05e+2 lbs/hr	7%O2
HCl	227C1R3	9.99e+2 ppmv 7%O2	6.57e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	227C1R1	1.80e+0 ug/dscm 7%O2	7.64e-5 lbs/hr	7%O2
Antimony	227C1R2	1.54e+0 ug/dscm 7%O2	6.78e-5 lbs/hr	7%O2
Antimony	227C1R3	ND 1.33e+0 ug/dscm 7%O2	5.59e-5 lbs/hr	7%O2
Arsenic	227C1R1	3.03e+0 ug/dscm 7%O2	1.29e-4 lbs/hr	7%O2
Arsenic	227C1R2	5.47e+0 ug/dscm 7%O2	2.40e-4 lbs/hr	7%O2
Arsenic	227C1R3	1.07e+1 ug/dscm 7%O2	4.52e-4 lbs/hr	7%O2
Barium	227C1R1	1.61e+0 ug/dscm 7%O2	6.82e-5 lbs/hr	7%O2
Barium	227C1R2	1.11e+2 ug/dscm 7%O2	4.90e-3 lbs/hr	7%O2
Barium	227C1R3	2.39e+0 ug/dscm 7%O2	1.01e-4 lbs/hr	7%O2
Beryllium	227C1R1	ND 1.61e-1 ug/dscm 7%O2	6.82e-6 lbs/hr	7%O2
Beryllium	227C1R2	ND 1.30e-1 ug/dscm 7%O2	5.74e-6 lbs/hr	7%O2
Beryllium	227C1R3	1.59e-1 ug/dscm 7%O2	6.71e-6 lbs/hr	7%O2
Cadmium	227C1R1	3.52e+0 ug/dscm 7%O2	1.49e-4 lbs/hr	7%O2
Cadmium	227C1R2	6.33e+0 ug/dscm 7%O2	2.79e-4 lbs/hr	7%O2
Cadmium	227C1R3	1.14e+1 ug/dscm 7%O2	4.80e-4 lbs/hr	7%O2
Chromium	227C1R1	1.29e+1 ug/dscm 7%O2	5.46e-4 lbs/hr	7%O2
Chromium	227C1R2	1.30e+1 ug/dscm 7%O2	5.71e-4 lbs/hr	7%O2
Chromium	227C1R3	2.47e+1 ug/dscm 7%O2	1.04e-3 lbs/hr	7%O2
Chromium (Hex)	227C1R1	ND 2.71e+0 ug/dscm 7%O2	1.20e-4 lbs/hr	7%O2
Chromium (Hex)	227C1R2	ND 2.37e+0 ug/dscm 7%O2	1.06e-4 lbs/hr	7%O2
Chromium (Hex)	227C1R3	ND 2.61e+0 ug/dscm 7%O2	1.04e-4 lbs/hr	7%O2
Lead	227C1R1	8.43e+0 ug/dscm 7%O2	3.58e-4 lbs/hr	7%O2
Lead	227C1R2	1.41e+1 ug/dscm 7%O2	6.20e-4 lbs/hr	7%O2
Lead	227C1R3	4.91e+1 ug/dscm 7%O2	2.07e-3 lbs/hr	7%O2
Mercury	227C1R1	1.58e+1 ug/dscm 7%O2	6.71e-4 lbs/hr	7%O2
Mercury	227C1R2	1.67e+1 ug/dscm 7%O2	7.35e-4 lbs/hr	7%O2
Mercury	227C1R3	1.86e+1 ug/dscm 7%O2	7.81e-4 lbs/hr	7%O2
Silver	227C1R1	2.01e+0 ug/dscm 7%O2	8.53e-5 lbs/hr	7%O2
Silver	227C1R2	ND 5.24e-2 ug/dscm 7%O2	2.36e-6 lbs/hr	CE7%O2
Silver	227C1R3	ND 5.30e-1 ug/dscm 7%O2	2.24e-5 lbs/hr	7%O2
Thallium	227C1R1	ND 1.61e+0 ug/dscm 7%O2	6.82e-5 lbs/hr	7%O2
Thallium	227C1R2	ND 1.30e+0 ug/dscm 7%O2	5.74e-5 lbs/hr	7%O2
Thallium	227C1R3	ND 1.33e+0 ug/dscm 7%O2	5.59e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	227C1R1	1.64e-3 gr/dscf 7%O2	1.63e-1 lbs/hr	7%O2
Particulate	227C1R2	1.46e-3 gr/dscf 7%O2	1.53e-1 lbs/hr	7%O2
Particulate	227C1R3	1.26e-3 gr/dscf 7%O2	1.26e-1 lbs/hr	7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: FL
 3. CITY: GREEN COVE SPRINGS EPA ID: FLD004059085 REGION: 4
 4. EP ID: 227 DEVICE NAME: KILN NO. 5 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

7. Category: THC & CO

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
CO	227C1R1	1.05e+3 ppmv 7%O2	5.29e+1 lbs/hr	CE
CO	227C1R2	4.84e+2 ppmv 7%O2	2.53e+1 lbs/hr	CE
CO	227C1R3	8.25e+2 ppmv 7%O2	4.01e+1 lbs/hr	CE
CO(MHRA)	227C1R1	1.90e+3 ppmv 7%O2	9.62e+1 lbs/hr	CE
CO(MHRA)	227C1R2	6.28e+2 ppmv 7%O2	3.28e+1 lbs/hr	CE
CO(MHRA)	227C1R3	1.34e+3 ppmv 7%O2	6.49e+1 lbs/hr	CE
THC	227C1R1	7.90e+0 ppmv 7%O2	6.27e-1 lbs/hr	CE
THC	227C1R2	1.08e+1 ppmv 7%O2	8.86e-1 lbs/hr	CE
THC	227C1R3	9.60e+0 ppmv 7%O2	7.33e-1 lbs/hr	CE
THC(MHRA)	227C1R1	1.24e+1 ppmv 7%O2	9.85e-1 lbs/hr	CE
THC(MHRA)	227C1R2	1.34e+1 ppmv 7%O2	1.10e+0 lbs/hr	CE
THC(MHRA)	227C1R3	1.25e+1 ppmv 7%O2	9.54e-1 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: KY
 3. CITY: BROOKS EPA KYD059568220 REGION: 4
 4. EP ID: 310 DEVICE NAME: KILN NO. 2 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS

7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	310C1R1	4.34e+0 ppmv 7%O2	3.35e-1 lbs/hr	CE7%O2
Chlorine	310C1R2	2.20e+0 ppmv 7%O2	1.58e-1 lbs/hr	CE7%O2
Chlorine	310C1R3	1.20e+0 ppmv 7%O2	8.96e-2 lbs/hr	CE7%O2
HCl	310C1R1	1.19e+3 ppmv 7%O2	4.57e+1 lbs/hr	7%O2
HCl	310C1R2	1.16e+3 ppmv 7%O2	4.03e+1 lbs/hr	7%O2
HCl	310C1R3	1.23e+3 ppmv 7%O2	4.57e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	310C1R1	1.45e+1 ug/dscm 7%O2	3.75e-4 lbs/hr	7%O2
Antimony	310C1R2	3.11e+1 ug/dscm 7%O2	7.61e-4 lbs/hr	7%O2
Antimony	310C1R3	1.96e+1 ug/dscm 7%O2	5.00e-4 lbs/hr	7%O2
Arsenic	310C1R1	1.07e+1 ug/dscm 7%O2	2.78e-4 lbs/hr	7%O2
Arsenic	310C1R2	2.77e+1 ug/dscm 7%O2	6.79e-4 lbs/hr	7%O2
Arsenic	310C1R3	1.78e+0 ug/dscm 7%O2	4.63e-5 lbs/hr	7%O2
Barium	310C1R1	2.75e+1 ug/dscm 7%O2	7.12e-4 lbs/hr	7%O2
Barium	310C1R2	2.07e+1 ug/dscm 7%O2	5.07e-4 lbs/hr	7%O2
Barium	310C1R3	4.84e+1 ug/dscm 7%O2	1.24e-3 lbs/hr	7%O2
Beryllium	310C1R1	1.98e+0 ug/dscm 7%O2	5.07e-5 lbs/hr	7%O2
Beryllium	310C1R2	ND 4.38e+0 ug/dscm 7%O2	1.08e-4 lbs/hr	7%O2
Beryllium	310C1R3	ND 2.67e+0 ug/dscm 7%O2	6.83e-5 lbs/hr	7%O2
Cadmium	310C1R1	3.78e+1 ug/dscm 7%O2	9.79e-4 lbs/hr	7%O2
Cadmium	310C1R2	3.41e+1 ug/dscm 7%O2	8.36e-4 lbs/hr	7%O2
Cadmium	310C1R3	2.94e+1 ug/dscm 7%O2	7.50e-4 lbs/hr	7%O2
Chromium	310C1R1	3.26e+1 ug/dscm 7%O2	8.44e-4 lbs/hr	7%O2
Chromium	310C1R2	2.53e+1 ug/dscm 7%O2	6.19e-4 lbs/hr	7%O2
Chromium	310C1R3	6.62e+0 ug/dscm 7%O2	1.70e-4 lbs/hr	7%O2
Chromium (Hex)	310C1R1	5.93e+0 ug/dscm 7%O2	1.54e-4 lbs/hr	7%O2
Chromium (Hex)	310C1R2	ND 4.24e+0 ug/dscm 7%O2	1.01e-4 lbs/hr	7%O2
Chromium (Hex)	310C1R3	ND 2.84e+0 ug/dscm 7%O2	7.28e-5 lbs/hr	7%O2
Lead	310C1R1	8.47e+2 ug/dscm 7%O2	2.19e-2 lbs/hr	7%O2
Lead	310C1R2	2.31e+2 ug/dscm 7%O2	5.65e-3 lbs/hr	7%O2
Lead	310C1R3	3.07e+2 ug/dscm 7%O2	7.85e-3 lbs/hr	7%O2
Mercury	310C1R1	2.03e+1 ug/dscm 7%O2	5.27e-4 lbs/hr	7%O2
Mercury	310C1R2	1.15e+1 ug/dscm 7%O2	2.82e-4 lbs/hr	7%O2
Mercury	310C1R3	1.38e+1 ug/dscm 7%O2	3.53e-4 lbs/hr	7%O2
Silver	310C1R1	4.16e+0 ug/dscm 7%O2	1.08e-4 lbs/hr	7%O2
Silver	310C1R2	3.06e+0 ug/dscm 7%O2	7.50e-5 lbs/hr	7%O2
Silver	310C1R3	2.20e+1 ug/dscm 7%O2	5.60e-4 lbs/hr	7%O2
Thallium	310C1R1	ND 5.11e+0 ug/dscm 7%O2	1.32e-4 lbs/hr	7%O2
Thallium	310C1R2	ND 6.65e+0 ug/dscm 7%O2	1.63e-4 lbs/hr	7%O2
Thallium	310C1R3	ND 5.26e+0 ug/dscm 7%O2	1.32e-4 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	310C1R1	1.30e-2 gr/dscf 7%O2	7.82e-1 lbs/hr	CE
Particulate	310C1R2	2.60e-2 gr/dscf 7%O2	1.45e+0 lbs/hr	CE
Particulate	310C1R3	1.60e-2 gr/dscf 7%O2	9.26e-1 lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 223 DEVICE NAME: KILN NO. 5
 EPA ID: NCD003152642
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 4

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	223C1R1	2.09e+0 ppmv 7%O2	1.83e-1 lbs/hr	CE7%O2
Chlorine	223C1R2	6.26e-1 ppmv 7%O2	5.75e-2 lbs/hr	CE7%O2
Chlorine	223C1R3	5.79e-1 ppmv 7%O2	5.27e-2 lbs/hr	CE7%O2
HCl	223C1R1	2.16e+3 ppmv 7%O2	9.47e+1 lbs/hr	7%O2
HCl	223C1R2	1.75e+3 ppmv 7%O2	9.27e+1 lbs/hr	7%O2
HCl	223C1R3	2.32e+3 ppmv 7%O2	1.09e+2 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	223C1R1	1.56e+1 ug/dscm 7%O2	4.72e-4 lbs/hr	7%O2
Antimony	223C1R2	4.43e+0 ug/dscm 7%O2	1.21e-4 lbs/hr	7%O2
Antimony	223C1R3	1.66e+1 ug/dscm 7%O2	4.79e-4 lbs/hr	7%O2
Arsenic	223C1R1	7.39e+0 ug/dscm 7%O2	2.22e-4 lbs/hr	7%O2
Arsenic	223C1R2	2.46e+0 ug/dscm 7%O2	6.72e-5 lbs/hr	7%O2
Arsenic	223C1R3	2.01e+0 ug/dscm 7%O2	5.80e-5 lbs/hr	7%O2
Barium	223C1R1	2.77e+2 ug/dscm 7%O2	8.36e-3 lbs/hr	7%O2
Barium	223C1R2	8.56e+1 ug/dscm 7%O2	2.34e-3 lbs/hr	7%O2
Barium	223C1R3	9.05e+1 ug/dscm 7%O2	2.61e-3 lbs/hr	7%O2
Beryllium	223C1R1	ND 2.39e-1 ug/dscm 7%O2	7.20e-6 lbs/hr	7%O2
Beryllium	223C1R2	ND 2.07e-1 ug/dscm 7%O2	5.65e-6 lbs/hr	7%O2
Beryllium	223C1R3	ND 1.94e-1 ug/dscm 7%O2	5.57e-6 lbs/hr	7%O2
Cadmium	223C1R1	1.80e+0 ug/dscm 7%O2	5.43e-5 lbs/hr	7%O2
Cadmium	223C1R2	1.48e+0 ug/dscm 7%O2	4.05e-5 lbs/hr	7%O2
Cadmium	223C1R3	2.25e+0 ug/dscm 7%O2	6.47e-5 lbs/hr	7%O2
Chromium	223C1R1	1.23e+1 ug/dscm 7%O2	3.72e-4 lbs/hr	7%O2
Chromium	223C1R2	2.96e+1 ug/dscm 7%O2	8.08e-4 lbs/hr	7%O2
Chromium	223C1R3	1.12e+1 ug/dscm 7%O2	3.21e-4 lbs/hr	7%O2
Chromium (Hex)	223C1R1	7.88e+0 ug/dscm 7%O2	2.37e-4 lbs/hr	7%O2
Chromium (Hex)	223C1R2	9.62e+0 ug/dscm 7%O2	3.03e-4 lbs/hr	7%O2
Chromium (Hex)	223C1R3	ND 2.39e+0 ug/dscm 7%O2	7.75e-5 lbs/hr	7%O2
Lead	223C1R1	3.92e+0 ug/dscm 7%O2	1.18e-4 lbs/hr	7%O2
Lead	223C1R2	4.16e+0 ug/dscm 7%O2	1.14e-4 lbs/hr	7%O2
Lead	223C1R3	ND 1.94e+0 ug/dscm 7%O2	5.57e-5 lbs/hr	7%O2
Mercury	223C1R1	3.01e+1 ug/dscm 7%O2	9.08e-4 lbs/hr	7%O2
Mercury	223C1R2	3.40e+1 ug/dscm 7%O2	9.26e-4 lbs/hr	7%O2
Mercury	223C1R3	3.10e+1 ug/dscm 7%O2	8.92e-4 lbs/hr	7%O2
Silver	223C1R1	ND 9.56e-1 ug/dscm 7%O2	2.88e-5 lbs/hr	7%O2
Silver	223C1R2	ND 8.29e-1 ug/dscm 7%O2	2.26e-5 lbs/hr	7%O2
Silver	223C1R3	1.92e+0 ug/dscm 7%O2	5.53e-5 lbs/hr	7%O2
Thallium	223C1R1	ND 2.39e+0 ug/dscm 7%O2	7.20e-5 lbs/hr	7%O2
Thallium	223C1R2	ND 2.07e+0 ug/dscm 7%O2	5.65e-5 lbs/hr	7%O2
Thallium	223C1R3	ND 1.94e+0 ug/dscm 7%O2	5.57e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	223C1R1	2.59e-3 gr/dscf 7%O2	1.71e-1 lbs/hr	7%O2
Particulate	223C1R2	2.28e-3 gr/dscf 7%O2	1.81e-1 lbs/hr	7%O2
Particulate	223C1R3	7.92e-3 gr/dscf 7%O2	5.64e-1 lbs/hr	7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 224 DEVICE NAME: KILN NO. 6
 EPA ID: NCD003152642
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 4

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	224C1R1	4.10e+1 ppmv 7%O2	4.67e+0 lbs/hr	CC7%O2
Chlorine	224C1R2	4.32e-1 ppmv 7%O2	4.89e-2 lbs/hr	CC7%O2
Chlorine	224C1R3	3.40e-1 ppmv 7%O2	3.88e-2 lbs/hr	CC7%O2
HCl	224C1R1	8.85e-1 ppmv 7%O2	5.18e-2 lbs/hr	CC7%O2
HCl	224C1R2	9.93e-1 ppmv 7%O2	5.78e-2 lbs/hr	CC7%O2
HCl	224C1R3	9.62e-1 ppmv 7%O2	5.64e-2 lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	224C1R1	9.68e+0 ug/dscm 7%O2	3.75e-4 lbs/hr	CC7%O2
Antimony	224C1R2	9.74e+0 ug/dscm 7%O2	3.75e-4 lbs/hr	CC7%O2
Antimony	224C1R3	1.93e+1 ug/dscm 7%O2	7.50e-4 lbs/hr	CC7%O2
Arsenic	224C1R1	1.71e+0 ug/dscm 7%O2	6.61e-5 lbs/hr	CC7%O2
Arsenic	224C1R2	2.29e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	CC7%O2
Arsenic	224C1R3	3.98e+0 ug/dscm 7%O2	1.54e-4 lbs/hr	CC7%O2
Barium	224C1R1	1.25e+1 ug/dscm 7%O2	4.85e-4 lbs/hr	CC7%O2
Barium	224C1R2	9.91e+1 ug/dscm 7%O2	3.81e-3 lbs/hr	CC7%O2
Barium	224C1R3	1.78e+2 ug/dscm 7%O2	6.92e-3 lbs/hr	CC7%O2
Beryllium	224C1R1	1.71e-1 ug/dscm 7%O2	6.61e-6 lbs/hr	CC7%O2
Beryllium	224C1R2	2.29e-1 ug/dscm 7%O2	8.82e-6 lbs/hr	CC7%O2
Beryllium	224C1R3	1.70e-1 ug/dscm 7%O2	6.61e-6 lbs/hr	CC7%O2
Cadmium	224C1R1	2.85e+0 ug/dscm 7%O2	1.10e-4 lbs/hr	CC7%O2
Cadmium	224C1R2	1.15e+0 ug/dscm 7%O2	4.41e-5 lbs/hr	CC7%O2
Cadmium	224C1R3	1.70e+0 ug/dscm 7%O2	6.61e-5 lbs/hr	CC7%O2
Chromium	224C1R1	5.07e+0 ug/dscm 7%O2	1.96e-4 lbs/hr	CC7%O2
Chromium	224C1R2	6.30e+0 ug/dscm 7%O2	2.43e-4 lbs/hr	CC7%O2
Chromium	224C1R3	6.31e+0 ug/dscm 7%O2	2.45e-4 lbs/hr	CC7%O2
Chromium (Hex)	224C1R1	3.25e+0 ug/dscm 7%O2	1.26e-4 lbs/hr	CC7%O2
Chromium (Hex)	224C1R2	3.27e+0 ug/dscm 7%O2	1.26e-4 lbs/hr	CC7%O2
Chromium (Hex)	224C1R3	3.69e+0 ug/dscm 7%O2	1.43e-4 lbs/hr	CC7%O2
Lead	224C1R1	1.71e+0 ug/dscm 7%O2	6.61e-5 lbs/hr	CC7%O2
Lead	224C1R2	2.29e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	CC7%O2
Lead	224C1R3	2.27e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	CC7%O2
Mercury	224C1R1	1.37e+1 ug/dscm 7%O2	5.29e-4 lbs/hr	CC7%O2
Mercury	224C1R2	1.43e+1 ug/dscm 7%O2	5.51e-4 lbs/hr	CC7%O2
Mercury	224C1R3	1.93e+1 ug/dscm 7%O2	7.50e-4 lbs/hr	CC7%O2
Silver	224C1R1	5.69e-1 ug/dscm 7%O2	2.20e-5 lbs/hr	CC7%O2
Silver	224C1R2	5.73e-1 ug/dscm 7%O2	2.20e-5 lbs/hr	CC7%O2
Silver	224C1R3	5.68e-1 ug/dscm 7%O2	2.20e-5 lbs/hr	CC7%O2
Thallium	224C1R1	1.71e+0 ug/dscm 7%O2	6.61e-5 lbs/hr	CC7%O2
Thallium	224C1R2	2.29e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	CC7%O2
Thallium	224C1R3	2.27e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	224C1R1	9.03e-3 gr/dscf 7%O2	8.02e-1 lbs/hr	CE7%O2
Particulate	224C1R2	2.85e-3 gr/dscf 7%O2	2.51e-1 lbs/hr	CE7%O2
Particulate	224C1R3	2.28e-3 gr/dscf 7%O2	2.03e-1 lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 225 DEVICE NAME: KILN NO. 7
 EPA ID: NCD003152642
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 4

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	225C1R1	9.16e-2 ppmv 7%O2	2.60e-2 lbs/hr	CE7%O2
Chlorine	225C1R2	1.40e-1 ppmv 7%O2	4.13e-2 lbs/hr	CE7%O2
Chlorine	225C1R3	2.79e-1 ppmv 7%O2	8.46e-2 lbs/hr	CE7%O2
HCl	225C1R1	7.53e+2 ppmv 7%O2	1.13e+2 lbs/hr	7%O2
HCl	225C1R2	6.03e+2 ppmv 7%O2	9.00e+1 lbs/hr	7%O2
HCl	225C1R3	5.67e+2 ppmv 7%O2	8.86e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	225C1R1	4.18e+0 ug/dscm 7%O2	3.95e-4 lbs/hr	7%O2
Antimony	225C1R2	2.44e+0 ug/dscm 7%O2	2.47e-4 lbs/hr	7%O2
Antimony	225C1R3	7.28e+0 ug/dscm 7%O2	7.45e-4 lbs/hr	7%O2
Arsenic	225C1R1	ND 6.18e-1 ug/dscm 7%O2	5.84e-5 lbs/hr	7%O2
Arsenic	225C1R2	ND 5.74e-1 ug/dscm 7%O2	5.85e-5 lbs/hr	7%O2
Arsenic	225C1R3	ND 5.77e-1 ug/dscm 7%O2	5.91e-5 lbs/hr	7%O2
Barium	225C1R1	2.58e+0 ug/dscm 7%O2	2.44e-4 lbs/hr	7%O2
Barium	225C1R2	1.99e+0 ug/dscm 7%O2	2.03e-4 lbs/hr	7%O2
Barium	225C1R3	1.65e+0 ug/dscm 7%O2	1.69e-4 lbs/hr	7%O2
Beryllium	225C1R1	ND 6.18e-2 ug/dscm 7%O2	5.84e-6 lbs/hr	7%O2
Beryllium	225C1R2	ND 5.74e-2 ug/dscm 7%O2	5.85e-6 lbs/hr	7%O2
Beryllium	225C1R3	ND 5.77e-2 ug/dscm 7%O2	5.91e-6 lbs/hr	7%O2
Cadmium	225C1R1	3.67e-1 ug/dscm 7%O2	3.48e-5 lbs/hr	7%O2
Cadmium	225C1R2	3.01e-1 ug/dscm 7%O2	3.06e-5 lbs/hr	7%O2
Cadmium	225C1R3	2.88e-1 ug/dscm 7%O2	2.96e-5 lbs/hr	7%O2
Chromium	225C1R1	4.31e+0 ug/dscm 7%O2	4.09e-4 lbs/hr	7%O2
Chromium	225C1R2	7.02e+0 ug/dscm 7%O2	7.13e-4 lbs/hr	7%O2
Chromium	225C1R3	3.63e+0 ug/dscm 7%O2	3.73e-4 lbs/hr	7%O2
Chromium (Hex)	225C1R1	1.10e+0 ug/dscm 7%O2	1.04e-4 lbs/hr	7%O2
Chromium (Hex)	225C1R2	1.19e+0 ug/dscm 7%O2	1.19e-4 lbs/hr	7%O2
Chromium (Hex)	225C1R3	ND 8.03e-1 ug/dscm 7%O2	8.27e-5 lbs/hr	7%O2
Lead	225C1R1	9.58e-1 ug/dscm 7%O2	9.05e-5 lbs/hr	7%O2
Lead	225C1R2	6.72e-1 ug/dscm 7%O2	6.84e-5 lbs/hr	7%O2
Lead	225C1R3	ND 5.77e-1 ug/dscm 7%O2	5.91e-5 lbs/hr	7%O2
Mercury	225C1R1	6.35e+0 ug/dscm 7%O2	6.01e-4 lbs/hr	7%O2
Mercury	225C1R2	4.68e+0 ug/dscm 7%O2	4.75e-4 lbs/hr	7%O2
Mercury	225C1R3	2.68e+0 ug/dscm 7%O2	2.76e-4 lbs/hr	7%O2
Silver	225C1R1	ND 2.47e-1 ug/dscm 7%O2	2.33e-5 lbs/hr	7%O2
Silver	225C1R2	ND 2.30e-1 ug/dscm 7%O2	2.34e-5 lbs/hr	7%O2
Silver	225C1R3	ND 1.93e-1 ug/dscm 7%O2	2.37e-5 lbs/hr	7%O2
Thallium	225C1R1	ND 6.18e-1 ug/dscm 7%O2	5.84e-5 lbs/hr	7%O2
Thallium	225C1R2	ND 5.74e-1 ug/dscm 7%O2	5.85e-5 lbs/hr	7%O2
Thallium	225C1R3	ND 5.77e-1 ug/dscm 7%O2	5.91e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	225C1R1	2.99e-4 gr/dscf 7%O2	6.77e-2 lbs/hr	7%O2
Particulate	225C1R2	7.66e-4 gr/dscf 7%O2	1.73e-1 lbs/hr	7%O2
Particulate	225C1R3	3.62e-4 gr/dscf 7%O2	8.56e-2 lbs/hr	7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: NC
 3. CITY: NORWOOD
 4. EP ID: 226 DEVICE NAME: KILN NO. 8
 EPA ID: NCD003152642
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 4

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	226C1R1	0.00e+0	7.69e-2 lbs/hr	
Chlorine	226C1R2	0.00e+0	2.18e-2 lbs/hr	
Chlorine	226C1R3	0.00e+0	4.89e-2 lbs/hr	
HCl	226C1R1	0.00e+0	1.00e+2 lbs/hr	
HCl	226C1R2	0.00e+0	1.37e+2 lbs/hr	
HCl	226C1R3	0.00e+0	1.07e+2 lbs/hr	

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	226C1R1	0.00e+0	1.98e-4 lbs/hr	
Antimony	226C1R2	0.00e+0	1.76e-4 lbs/hr	
Antimony	226C1R3	0.00e+0	1.54e-4 lbs/hr	
Arsenic	226C1R1	0.00e+0	6.61e-5 lbs/hr	
Arsenic	226C1R2	0.00e+0	6.61e-5 lbs/hr	
Arsenic	226C1R3	0.00e+0	6.61e-5 lbs/hr	
Barium	226C1R1	0.00e+0	5.29e-4 lbs/hr	
Barium	226C1R2	0.00e+0	5.51e-4 lbs/hr	
Barium	226C1R3	0.00e+0	4.85e-4 lbs/hr	
Beryllium	226C1R1	0.00e+0	2.20e-5 lbs/hr	
Beryllium	226C1R2	0.00e+0	2.20e-5 lbs/hr	
Beryllium	226C1R3	0.00e+0	2.20e-5 lbs/hr	
Cadmium	226C1R1	0.00e+0	1.10e-4 lbs/hr	
Cadmium	226C1R2	0.00e+0	1.32e-4 lbs/hr	
Cadmium	226C1R3	0.00e+0	2.43e-4 lbs/hr	
Chromium	226C1R1	0.00e+0	1.08e-3 lbs/hr	
Chromium	226C1R2	0.00e+0	9.04e-4 lbs/hr	
Chromium	226C1R3	0.00e+0	1.17e-3 lbs/hr	
Chromium (Hex)	226C1R1	0.00e+0	1.76e-4 lbs/hr	
Chromium (Hex)	226C1R2	0.00e+0	1.10e-4 lbs/hr	
Chromium (Hex)	226C1R3	0.00e+0	1.76e-4 lbs/hr	
Lead	226C1R1	0.00e+0	1.76e-4 lbs/hr	
Lead	226C1R2	0.00e+0	3.53e-4 lbs/hr	
Lead	226C1R3	0.00e+0	8.82e-5 lbs/hr	
Mercury	226C1R1	0.00e+0	6.83e-4 lbs/hr	
Mercury	226C1R2	0.00e+0	4.85e-4 lbs/hr	
Mercury	226C1R3	0.00e+0	4.85e-4 lbs/hr	
Silver	226C1R1	0.00e+0	1.76e-4 lbs/hr	
Silver	226C1R2	0.00e+0	1.76e-4 lbs/hr	
Silver	226C1R3	0.00e+0	1.76e-4 lbs/hr	
Thallium	226C1R1	0.00e+0	6.61e-5 lbs/hr	
Thallium	226C1R2	0.00e+0	6.61e-5 lbs/hr	
Thallium	226C1R3	0.00e+0	6.61e-5 lbs/hr	

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	226C1R1	1.01e-3 gr/dscf 7%O2	0.00e+0	
Particulate	226C1R2	9.30e-4 gr/dscf 7%O2	0.00e+0	
Particulate	226C1R3	3.75e-3 gr/dscf 7%O2	0.00e+0	

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA
 4. EP ID: 313 DEVICE NAME: KILN NO. 7
 EPA ID: VAD042755082
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 3

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	313C1R1	2.09e+0 ppmv 7%O2	2.19e-1 lbs/hr	CC7%O2
Chlorine	313C1R2	6.18e-1 ppmv 7%O2	6.48e-2 lbs/hr	CC7%O2
Chlorine	313C1R3	5.13e-1 ppmv 7%O2	5.25e-2 lbs/hr	CC7%O2
HCl	313C1R1	1.53e+3 ppmv 7%O2	8.27e+1 lbs/hr	CC7%O2
HCl	313C1R2	1.57e+3 ppmv 7%O2	8.49e+1 lbs/hr	CC7%O2
HCl	313C1R3	1.42e+3 ppmv 7%O2	7.47e+1 lbs/hr	CC7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	313C1R1	3.13e+2 ug/dscm 7%O2	1.12e-2 lbs/hr	CC7%O2
Antimony	313C1R2	2.40e+2 ug/dscm 7%O2	8.58e-3 lbs/hr	CC7%O2
Antimony	313C1R3	2.00e+2 ug/dscm 7%O2	6.94e-3 lbs/hr	CC7%O2
Arsenic	313C1R1	2.10e+0 ug/dscm 7%O2	7.50e-5 lbs/hr	CC7%O2
Arsenic	313C1R2	3.21e+1 ug/dscm 7%O2	1.15e-3 lbs/hr	CC7%O2
Arsenic	313C1R3	3.08e+1 ug/dscm 7%O2	1.07e-3 lbs/hr	CC7%O2
Barium	313C1R1	1.63e+1 ug/dscm 7%O2	5.82e-4 lbs/hr	CC7%O2
Barium	313C1R2	ND 2.99e+1 ug/dscm 7%O2	1.07e-3 lbs/hr	CC7%O2
Barium	313C1R3	ND 2.36e+1 ug/dscm 7%O2	8.20e-4 lbs/hr	CC7%O2
Beryllium	313C1R1	1.30e+0 ug/dscm 7%O2	4.63e-5 lbs/hr	CC7%O2
Beryllium	313C1R2	2.29e+0 ug/dscm 7%O2	8.16e-5 lbs/hr	CC7%O2
Beryllium	313C1R3	1.39e+0 ug/dscm 7%O2	4.85e-5 lbs/hr	CC7%O2
Cadmium	313C1R1	2.26e+1 ug/dscm 7%O2	8.05e-4 lbs/hr	CC7%O2
Cadmium	313C1R2	4.16e+1 ug/dscm 7%O2	1.48e-3 lbs/hr	CC7%O2
Cadmium	313C1R3	3.11e+1 ug/dscm 7%O2	1.08e-3 lbs/hr	CC7%O2
Chromium	313C1R1	ND 1.27e+1 ug/dscm 7%O2	4.54e-4 lbs/hr	CC7%O2
Chromium	313C1R2	ND 1.94e+1 ug/dscm 7%O2	6.92e-4 lbs/hr	CC7%O2
Chromium	313C1R3	ND 1.35e+1 ug/dscm 7%O2	4.70e-4 lbs/hr	CC7%O2
Chromium (Hex)	313C1R1	1.61e+0 ug/dscm 7%O2	5.73e-5 lbs/hr	CC7%O2
Chromium (Hex)	313C1R2	ND 1.85e+0 ug/dscm 7%O2	6.61e-5 lbs/hr	CC7%O2
Chromium (Hex)	313C1R3	2.03e+0 ug/dscm 7%O2	7.05e-5 lbs/hr	CC7%O2
Lead	313C1R1	2.27e+2 ug/dscm 7%O2	8.11e-3 lbs/hr	CC7%O2
Lead	313C1R2	1.25e+3 ug/dscm 7%O2	4.45e-2 lbs/hr	CC7%O2
Lead	313C1R3	4.18e+2 ug/dscm 7%O2	1.46e-2 lbs/hr	CC7%O2
Mercury	313C1R1	ND 3.71e-1 ug/dscm 7%O2	1.32e-5 lbs/hr	CC7%O2
Mercury	313C1R2	ND 6.18e-2 ug/dscm 7%O2	2.20e-6 lbs/hr	CC7%O2
Mercury	313C1R3	ND 6.97e-1 ug/dscm 7%O2	2.43e-5 lbs/hr	CC7%O2
Silver	313C1R1	ND 2.84e+0 ug/dscm 7%O2	1.01e-4 lbs/hr	CC7%O2
Silver	313C1R2	ND 4.64e+0 ug/dscm 7%O2	1.65e-4 lbs/hr	CC7%O2
Silver	313C1R3	ND 2.79e+0 ug/dscm 7%O2	9.70e-5 lbs/hr	CC7%O2
Thallium	313C1R1	ND 8.03e-1 ug/dscm 7%O2	2.87e-5 lbs/hr	CC7%O2
Thallium	313C1R2	ND 2.04e+0 ug/dscm 7%O2	7.28e-5 lbs/hr	CC7%O2
Thallium	313C1R3	ND 8.24e-1 ug/dscm 7%O2	2.87e-5 lbs/hr	CC7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	313C1R1	8.00e-3 gr/dscf 7%O2	6.54e-1 lbs/hr	CE
Particulate	313C1R2	6.00e-3 gr/dscf 7%O2	4.90e-1 lbs/hr	CE
Particulate	313C1R3	6.00e-3 gr/dscf 7%O2	4.78e-1 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: ARVONIA
 4. EP ID: 314 DEVICE NAME: KILN NO. 8
 EPA ID: VAD042755082
 SYSTEM TYPE: LWA KILN
 APC SYSTEM: FF
 REGION: 3

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	314C1R1	2.07e+0 ppmv 7%O2	2.17e-1 lbs/hr	CE
Chlorine	314C1R2	1.94e+0 ppmv 7%O2	2.04e-1 lbs/hr	CE
Chlorine	314C1R3	1.42e+0 ppmv 7%O2	1.45e-1 lbs/hr	CE
HCl	314C1R1	9.17e+2 ppmv 7%O2	4.96e+1 lbs/hr	7%O2
HCl	314C1R2	8.20e+2 ppmv 7%O2	4.43e+1 lbs/hr	7%O2
HCl	314C1R3	8.12e+2 ppmv 7%O2	4.28e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	314C1R1	3.01e+2 ug/dscm 7%O2	1.08e-2 lbs/hr	7%O2
Antimony	314C1R2	1.43e+1 ug/dscm 7%O2	5.10e-4 lbs/hr	7%O2
Antimony	314C1R3	4.29e+1 ug/dscm 7%O2	1.49e-3 lbs/hr	7%O2
Arsenic	314C1R1	2.02e+0 ug/dscm 7%O2	7.23e-5 lbs/hr	7%O2
Arsenic	314C1R2	8.94e+1 ug/dscm 7%O2	3.19e-3 lbs/hr	7%O2
Arsenic	314C1R3	1.24e+2 ug/dscm 7%O2	4.31e-3 lbs/hr	7%O2
Barium	314C1R1	1.58e+1 ug/dscm 7%O2	5.64e-4 lbs/hr	7%O2
Barium	314C1R2	ND 5.96e+1 ug/dscm 7%O2	2.13e-3 lbs/hr	7%O2
Barium	314C1R3	ND 6.22e+1 ug/dscm 7%O2	2.17e-3 lbs/hr	7%O2
Beryllium	314C1R1	1.23e+0 ug/dscm 7%O2	4.39e-5 lbs/hr	7%O2
Beryllium	314C1R2	ND 4.25e+0 ug/dscm 7%O2	1.52e-4 lbs/hr	7%O2
Beryllium	314C1R3	3.90e+0 ug/dscm 7%O2	1.36e-4 lbs/hr	7%O2
Cadmium	314C1R1	2.18e+1 ug/dscm 7%O2	7.79e-4 lbs/hr	7%O2
Cadmium	314C1R2	1.03e+2 ug/dscm 7%O2	3.68e-3 lbs/hr	7%O2
Cadmium	314C1R3	6.22e+1 ug/dscm 7%O2	2.17e-3 lbs/hr	7%O2
Chromium	314C1R1	ND 1.23e+1 ug/dscm 7%O2	4.40e-4 lbs/hr	7%O2
Chromium	314C1R2	ND 5.42e+1 ug/dscm 7%O2	1.94e-3 lbs/hr	7%O2
Chromium	314C1R3	ND 3.23e+1 ug/dscm 7%O2	1.12e-3 lbs/hr	7%O2
Chromium (Hex)	314C1R1	1.56e+0 ug/dscm 7%O2	5.58e-5 lbs/hr	7%O2
Chromium (Hex)	314C1R2	1.17e+0 ug/dscm 7%O2	4.16e-5 lbs/hr	7%O2
Chromium (Hex)	314C1R3	ND 1.56e+0 ug/dscm 7%O2	5.43e-5 lbs/hr	7%O2
Lead	314C1R1	1.49e+3 ug/dscm 7%O2	5.33e-2 lbs/hr	7%O2
Lead	314C1R2	1.55e+3 ug/dscm 7%O2	5.53e-2 lbs/hr	7%O2
Lead	314C1R3	1.77e+3 ug/dscm 7%O2	6.17e-2 lbs/hr	7%O2
Mercury	314C1R1	1.60e+1 ug/dscm 7%O2	5.72e-4 lbs/hr	7%O2
Mercury	314C1R2	2.53e+1 ug/dscm 7%O2	9.03e-4 lbs/hr	7%O2
Mercury	314C1R3	2.52e+1 ug/dscm 7%O2	8.78e-4 lbs/hr	7%O2
Silver	314C1R1	ND 3.68e+0 ug/dscm 7%O2	1.31e-4 lbs/hr	7%O2
Silver	314C1R2	ND 3.75e+0 ug/dscm 7%O2	1.34e-4 lbs/hr	7%O2
Silver	314C1R3	ND 2.86e+0 ug/dscm 7%O2	9.96e-5 lbs/hr	7%O2
Thallium	314C1R1	ND 2.00e+0 ug/dscm 7%O2	7.14e-5 lbs/hr	7%O2
Thallium	314C1R2	ND 1.25e+0 ug/dscm 7%O2	4.46e-5 lbs/hr	7%O2
Thallium	314C1R3	ND 1.66e+0 ug/dscm 7%O2	5.78e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	314C1R1	1.19e-2 gr/dscf 7%O2	9.75e-1 lbs/hr	7%O2
Particulate	314C1R2	2.59e-2 gr/dscf 7%O2	2.12e+0 lbs/hr	7%O2
Particulate	314C1R3	2.94e-2 gr/dscf 7%O2	2.35e+0 lbs/hr	7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE
 4. EP ID: 311 DEVICE NAME: KILN NO. 2 EPA ID: VAD046970521 REGION: 3
 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	311C1R1	3.03e+1 ppmv 7%O2	3.11e+0 lbs/hr	CE7%O2
Chlorine	311C1R2	3.97e+0 ppmv 7%O2	3.75e-1 lbs/hr	CE7%O2
Chlorine	311C1R3	7.37e+0 ppmv 7%O2	6.89e-1 lbs/hr	CE7%O2
HCl	311C1R1	1.29e+3 ppmv 7%O2	6.70e+1 lbs/hr	7%O2
HCl	311C1R2	1.18e+3 ppmv 7%O2	5.47e+1 lbs/hr	7%O2
HCl	311C1R3	1.22e+3 ppmv 7%O2	5.73e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	311C1R1	ND 3.81e+0 ug/dscm 7%O2	1.30e-4 lbs/hr	7%O2
Antimony	311C1R2	5.86e+0 ug/dscm 7%O2	1.94e-4 lbs/hr	7%O2
Antimony	311C1R3	1.93e+0 ug/dscm 7%O2	6.17e-5 lbs/hr	7%O2
Arsenic	311C1R1	6.83e+0 ug/dscm 7%O2	2.34e-4 lbs/hr	7%O2
Arsenic	311C1R2	1.14e+1 ug/dscm 7%O2	3.75e-4 lbs/hr	7%O2
Arsenic	311C1R3	4.06e+0 ug/dscm 7%O2	1.30e-4 lbs/hr	7%O2
Barium	311C1R1	ND 5.15e+1 ug/dscm 7%O2	1.76e-3 lbs/hr	7%O2
Barium	311C1R2	ND 4.05e+1 ug/dscm 7%O2	1.33e-3 lbs/hr	7%O2
Barium	311C1R3	ND 2.57e+1 ug/dscm 7%O2	8.64e-4 lbs/hr	7%O2
Beryllium	311C1R1	ND 1.48e+0 ug/dscm 7%O2	5.07e-5 lbs/hr	7%O2
Beryllium	311C1R2	ND 2.46e+0 ug/dscm 7%O2	8.16e-5 lbs/hr	7%O2
Beryllium	311C1R3	ND 1.64e+0 ug/dscm 7%O2	5.29e-5 lbs/hr	7%O2
Cadmium	311C1R1	1.70e+1 ug/dscm 7%O2	5.82e-4 lbs/hr	7%O2
Cadmium	311C1R2	1.38e+2 ug/dscm 7%O2	4.54e-3 lbs/hr	7%O2
Cadmium	311C1R3	4.02e+2 ug/dscm 7%O2	1.29e-2 lbs/hr	7%O2
Chromium	311C1R1	ND 2.40e+1 ug/dscm 7%O2	8.25e-4 lbs/hr	7%O2
Chromium	311C1R2	ND 3.25e+1 ug/dscm 7%O2	1.07e-3 lbs/hr	7%O2
Chromium	311C1R3	ND 2.81e+1 ug/dscm 7%O2	9.02e-4 lbs/hr	7%O2
Chromium (Hex)	311C1R1	ND 3.31e+0 ug/dscm 7%O2	1.15e-4 lbs/hr	7%O2
Chromium (Hex)	311C1R2	ND 2.27e+0 ug/dscm 7%O2	7.50e-5 lbs/hr	7%O2
Chromium (Hex)	311C1R3	ND 1.86e+0 ug/dscm 7%O2	5.95e-5 lbs/hr	7%O2
Lead	311C1R1	1.62e+2 ug/dscm 7%O2	5.56e-3 lbs/hr	7%O2
Lead	311C1R2	ND 3.08e+2 ug/dscm 7%O2	1.01e-2 lbs/hr	7%O2
Lead	311C1R3	5.21e+2 ug/dscm 7%O2	1.67e-2 lbs/hr	7%O2
Mercury	311C1R1	ND 1.11e+1 ug/dscm 7%O2	3.79e-4 lbs/hr	7%O2
Mercury	311C1R2	ND 1.95e+1 ug/dscm 7%O2	6.42e-4 lbs/hr	7%O2
Mercury	311C1R3	ND 1.51e+1 ug/dscm 7%O2	4.85e-4 lbs/hr	7%O2
Silver	311C1R1	ND 3.75e+0 ug/dscm 7%O2	1.28e-4 lbs/hr	7%O2
Silver	311C1R2	ND 8.06e+1 ug/dscm 7%O2	2.65e-3 lbs/hr	7%O2
Silver	311C1R3	ND 3.70e+0 ug/dscm 7%O2	1.19e-4 lbs/hr	7%O2
Thallium	311C1R1	ND 1.32e+0 ug/dscm 7%O2	4.63e-5 lbs/hr	7%O2
Thallium	311C1R2	ND 3.00e+0 ug/dscm 7%O2	9.92e-5 lbs/hr	7%O2
Thallium	311C1R3	ND 1.01e+0 ug/dscm 7%O2	3.31e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	311C1R1	4.00e-3 gr/dscf 7%O2	3.19e-1 lbs/hr	CE
Particulate	311C1R2	7.00e-3 gr/dscf 7%O2	5.15e-1 lbs/hr	CE
Particulate	311C1R3	6.00e-3 gr/dscf 7%O2	4.36e-1 lbs/hr	CE

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE
 2. STATE: VA
 3. CITY: CASCADE EPA VAD046970521 REGION: 3
 4. EP ID: 312 DEVICE NAME: KINL NO. 4 SYSTEM TYPE: LWA KILN APC SYSTEM: FF

5. Type: CONTROLLED
 6. Description: EMISSIONS Process Group: LWA KILN Location: STACK Phase: GAS
 7. Category: Halogens

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Chlorine	312C1R1	2.57e+1 ppmv 7%O2	2.85e+0 lbs/hr	CE7%O2
Chlorine	312C1R2	1.77e-1 ppmv 7%O2	1.98e-2 lbs/hr	CE7%O2
Chlorine	312C1R3	8.11e+0 ppmv 7%O2	8.83e-1 lbs/hr	CE7%O2
HCl	312C1R1	1.29e+3 ppmv 7%O2	7.10e+1 lbs/hr	7%O2
HCl	312C1R2	1.31e+3 ppmv 7%O2	7.36e+1 lbs/hr	7%O2
HCl	312C1R3	1.05e+3 ppmv 7%O2	5.75e+1 lbs/hr	7%O2

7. Category: Metals

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Antimony	312C1R1	4.09e+0 ug/dscm 7%O2	1.52e-4 lbs/hr	7%O2
Antimony	312C1R2	3.84e+0 ug/dscm 7%O2	1.48e-4 lbs/hr	7%O2
Antimony	312C1R3	6.00e+0 ug/dscm 7%O2	2.36e-4 lbs/hr	7%O2
Arsenic	312C1R1	4.23e+0 ug/dscm 7%O2	1.59e-4 lbs/hr	7%O2
Arsenic	312C1R2	9.83e+0 ug/dscm 7%O2	3.77e-4 lbs/hr	7%O2
Arsenic	312C1R3	4.29e+0 ug/dscm 7%O2	1.70e-4 lbs/hr	7%O2
Barium	312C1R1	ND 1.26e+1 ug/dscm 7%O2	4.72e-4 lbs/hr	7%O2
Barium	312C1R2	ND 3.40e+1 ug/dscm 7%O2	1.31e-3 lbs/hr	7%O2
Barium	312C1R3	ND 2.74e+1 ug/dscm 7%O2	1.08e-3 lbs/hr	7%O2
Beryllium	312C1R1	ND 1.04e+0 ug/dscm 7%O2	3.97e-5 lbs/hr	7%O2
Beryllium	312C1R2	ND 2.30e+0 ug/dscm 7%O2	8.82e-5 lbs/hr	7%O2
Beryllium	312C1R3	ND 1.00e+0 ug/dscm 7%O2	3.97e-5 lbs/hr	7%O2
Cadmium	312C1R1	6.19e+1 ug/dscm 7%O2	2.31e-3 lbs/hr	7%O2
Cadmium	312C1R2	8.40e+1 ug/dscm 7%O2	3.22e-3 lbs/hr	7%O2
Cadmium	312C1R3	1.03e+1 ug/dscm 7%O2	4.06e-4 lbs/hr	7%O2
Chromium	312C1R1	2.60e+1 ug/dscm 7%O2	9.74e-4 lbs/hr	7%O2
Chromium	312C1R2	ND 3.84e+1 ug/dscm 7%O2	1.47e-3 lbs/hr	7%O2
Chromium	312C1R3	ND 1.06e+1 ug/dscm 7%O2	4.17e-4 lbs/hr	7%O2
Chromium (Hex)	312C1R1	ND 3.08e+0 ug/dscm 7%O2	1.17e-4 lbs/hr	7%O2
Chromium (Hex)	312C1R2	5.14e+0 ug/dscm 7%O2	1.98e-4 lbs/hr	7%O2
Chromium (Hex)	312C1R3	ND 3.60e+0 ug/dscm 7%O2	1.28e-4 lbs/hr	7%O2
Lead	312C1R1	1.01e+2 ug/dscm 7%O2	3.79e-3 lbs/hr	7%O2
Lead	312C1R2	5.38e+2 ug/dscm 7%O2	2.06e-2 lbs/hr	7%O2
Lead	312C1R3	4.14e+2 ug/dscm 7%O2	1.63e-2 lbs/hr	7%O2
Mercury	312C1R1	ND 1.01e+1 ug/dscm 7%O2	3.79e-4 lbs/hr	7%O2
Mercury	312C1R2	ND 7.80e+0 ug/dscm 7%O2	3.00e-4 lbs/hr	7%O2
Mercury	312C1R3	ND 8.43e+0 ug/dscm 7%O2	3.31e-4 lbs/hr	7%O2
Silver	312C1R1	ND 4.76e+0 ug/dscm 7%O2	1.79e-4 lbs/hr	7%O2
Silver	312C1R2	ND 5.90e+0 ug/dscm 7%O2	2.27e-4 lbs/hr	7%O2
Silver	312C1R3	ND 4.29e+0 ug/dscm 7%O2	1.70e-4 lbs/hr	7%O2
Thallium	312C1R1	ND 1.03e+0 ug/dscm 7%O2	3.97e-5 lbs/hr	7%O2
Thallium	312C1R2	ND 1.18e+0 ug/dscm 7%O2	4.63e-5 lbs/hr	7%O2
Thallium	312C1R3	ND 1.80e+0 ug/dscm 7%O2	7.05e-5 lbs/hr	7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	312C1R1	7.00e-3 gr/dscf 7%O2	6.03e-1 lbs/hr	CE
Particulate	312C1R2	5.00e-3 gr/dscf 7%O2	4.35e-1 lbs/hr	CE
Particulate	312C1R3	1.80e-2 gr/dscf 7%O2	1.53e+0 lbs/hr	CE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

EPA ID: VAD046970521

REGION: 3

4. EP ID: 336 DEVICE NAME: KILN NO. 1

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

5. Type: CONTROLLED

6. Description: EMISSIONS

Process Group: LWA KILN

Location: STACK

Phase: GAS

7. Category: Dioxin & Furan

Analysis:

8. Substance	9. Run ID		Concentration	Mass Rate	Calc
4D 2378	336C1R1	2	4.36e-3 ng/dscm 7%O2	9.99e-11 lbs/hr	CC7%O2
4D 2378	336C1R2	ND	3.77e-3 ng/dscm 7%O2	8.02e-11 lbs/hr	CC7%O2
4D 2378	336C2R1	ND	5.40e-3 ng/dscm 7%O2	1.07e-10 lbs/hr	CC7%O2
4D Other	336C1R1		1.69e-2 ng/dscm 7%O2	3.88e-10 lbs/hr	CC7%O2
4D Other	336C1R2	2	1.79e-2 ng/dscm 7%O2	3.82e-10 lbs/hr	CC7%O2
4D Other	336C2R1	2	2.72e-2 ng/dscm 7%O2	5.40e-10 lbs/hr	CC7%O2
4D Total	336C1R1		2.13e-2 ng/dscm 7%O2	4.88e-10 lbs/hr	OCE
4D Total	336C1R2		2.17e-2 ng/dscm 7%O2	4.62e-10 lbs/hr	OCE
4D Total	336C2R1		3.26e-2 ng/dscm 7%O2	6.47e-10 lbs/hr	OCE
4F 2378	336C1R1		2.94e-2 ng/dscm 7%O2	6.74e-10 lbs/hr	CC7%O2
4F 2378	336C1R2		1.57e-2 ng/dscm 7%O2	3.34e-10 lbs/hr	CC7%O2
4F 2378	336C2R1		2.06e-2 ng/dscm 7%O2	4.09e-10 lbs/hr	CC7%O2
4F Other	336C1R1		4.89e-1 ng/dscm 7%O2	1.12e-8 lbs/hr	CC7%O2
4F Other	336C1R2		1.93e-1 ng/dscm 7%O2	4.11e-9 lbs/hr	CC7%O2
4F Other	336C2R1		5.09e-1 ng/dscm 7%O2	1.01e-8 lbs/hr	CC7%O2
4F Total	336C1R1		5.19e-1 ng/dscm 7%O2	1.19e-8 lbs/hr	OCE
4F Total	336C1R2		2.09e-1 ng/dscm 7%O2	4.44e-9 lbs/hr	OCE
4F Total	336C2R1		5.30e-1 ng/dscm 7%O2	1.05e-8 lbs/hr	OCE
5D 12378	336C1R1	2	1.19e-2 ng/dscm 7%O2	2.73e-10 lbs/hr	CE7%O2
5D 12378	336C1R2	ND	6.24e-3 ng/dscm 7%O2	1.33e-10 lbs/hr	CE7%O2
5D 12378	336C2R1	ND	9.57e-3 ng/dscm 7%O2	1.90e-10 lbs/hr	CE7%O2
5D Other	336C1R1		6.07e-2 ng/dscm 7%O2	1.39e-9 lbs/hr	CC7%O2
5D Other	336C1R2		1.53e-2 ng/dscm 7%O2	3.26e-10 lbs/hr	CC7%O2
5D Other	336C2R1		1.23e-2 ng/dscm 7%O2	2.43e-10 lbs/hr	CC7%O2
5D Total	336C1R1		7.26e-2 ng/dscm 7%O2	1.66e-9 lbs/hr	OCE
5D Total	336C1R2		2.16e-2 ng/dscm 7%O2	4.59e-10 lbs/hr	OCE
5D Total	336C2R1		2.18e-2 ng/dscm 7%O2	4.33e-10 lbs/hr	OCE
5F 12378	336C1R1		3.14e-2 ng/dscm 7%O2	7.19e-10 lbs/hr	CC7%O2
5F 12378	336C1R2		2.11e-2 ng/dscm 7%O2	4.49e-10 lbs/hr	CC7%O2
5F 12378	336C2R1		2.00e-2 ng/dscm 7%O2	3.96e-10 lbs/hr	CC7%O2
5F 23478	336C1R1		2.92e-2 ng/dscm 7%O2	6.69e-10 lbs/hr	CC7%O2
5F 23478	336C1R2	2	1.86e-2 ng/dscm 7%O2	3.96e-10 lbs/hr	CC7%O2
5F 23478	336C2R1		1.82e-2 ng/dscm 7%O2	3.61e-10 lbs/hr	CC7%O2
5F Other	336C1R1		2.02e-1 ng/dscm 7%O2	4.63e-9 lbs/hr	CC7%O2
5F Other	336C1R2		1.12e-1 ng/dscm 7%O2	2.38e-9 lbs/hr	CC7%O2
5F Other	336C2R1		1.22e-1 ng/dscm 7%O2	2.42e-9 lbs/hr	CC7%O2
5F Total	336C1R1		2.63e-1 ng/dscm 7%O2	6.02e-9 lbs/hr	OCE
5F Total	336C1R2		1.52e-1 ng/dscm 7%O2	3.22e-9 lbs/hr	OCE
5F Total	336C2R1		1.60e-1 ng/dscm 7%O2	3.18e-9 lbs/hr	OCE
6D 123478	336C1R1		8.47e-3 ng/dscm 7%O2	1.94e-10 lbs/hr	CC7%O2
6D 123478	336C1R2	2	4.15e-3 ng/dscm 7%O2	8.83e-11 lbs/hr	CC7%O2
6D 123478	336C2R1	ND	9.43e-3 ng/dscm 7%O2	1.87e-10 lbs/hr	CC7%O2
6D 123678	336C1R1		1.52e-2 ng/dscm 7%O2	3.47e-10 lbs/hr	CC7%O2
6D 123678	336C1R2		8.18e-3 ng/dscm 7%O2	1.74e-10 lbs/hr	CC7%O2
6D 123678	336C2R1	2	6.86e-3 ng/dscm 7%O2	1.36e-10 lbs/hr	CC7%O2
6D 123789	336C1R1		1.95e-2 ng/dscm 7%O2	4.47e-10 lbs/hr	CC7%O2
6D 123789	336C1R2		1.45e-2 ng/dscm 7%O2	3.08e-10 lbs/hr	CC7%O2
6D 123789	336C2R1	2	1.05e-2 ng/dscm 7%O2	2.08e-10 lbs/hr	CC7%O2
6D Other	336C1R1		4.93e-2 ng/dscm 7%O2	1.13e-9 lbs/hr	CC7%O2
6D Other	336C1R2		3.76e-2 ng/dscm 7%O2	8.00e-10 lbs/hr	CC7%O2
6D Other	336C2R1		6.86e-2 ng/dscm 7%O2	1.36e-9 lbs/hr	CC7%O2
6D Total	336C1R1		9.25e-2 ng/dscm 7%O2	2.12e-9 lbs/hr	OCE
6D Total	336C1R2		6.44e-2 ng/dscm 7%O2	1.37e-9 lbs/hr	OCE

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

EPA ID: VAD046970521

REGION: 3

4. EP ID: 336 DEVICE NAME: KILN NO. 1

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

6D Total	336C2R1		9.53e-2	ng/dscm 7%O2	1.89e-9	lbs/hr	OCE
6F 123478	336C1R1		5.20e-2	ng/dscm 7%O2	1.19e-9	lbs/hr	CC7%O2
6F 123478	336C1R2	2	4.40e-2	ng/dscm 7%O2	9.36e-10	lbs/hr	CC7%O2
6F 123478	336C2R1		3.69e-2	ng/dscm 7%O2	7.32e-10	lbs/hr	CC7%O2
6F 123678	336C1R1		2.38e-2	ng/dscm 7%O2	5.44e-10	lbs/hr	CC7%O2
6F 123678	336C1R2		2.00e-2	ng/dscm 7%O2	4.25e-10	lbs/hr	CC7%O2
6F 123678	336C2R1		1.74e-2	ng/dscm 7%O2	3.45e-10	lbs/hr	CC7%O2
6F 123789	336C1R1	2	9.70e-3	ng/dscm 7%O2	2.22e-10	lbs/hr	CC7%O2
6F 123789	336C1R2		1.38e-2	ng/dscm 7%O2	2.94e-10	lbs/hr	CC7%O2
6F 123789	336C2R1	ND	8.07e-3	ng/dscm 7%O2	1.60e-10	lbs/hr	CC7%O2
6F 234678	336C1R1		3.35e-2	ng/dscm 7%O2	7.68e-10	lbs/hr	CC7%O2
6F 234678	336C1R2		3.28e-2	ng/dscm 7%O2	6.98e-10	lbs/hr	CC7%O2
6F 234678	336C2R1		2.55e-2	ng/dscm 7%O2	5.05e-10	lbs/hr	CC7%O2
6F Other	336C1R1		7.73e-2	ng/dscm 7%O2	1.77e-9	lbs/hr	CC7%O2
6F Other	336C1R2		2.33e-2	ng/dscm 7%O2	4.95e-10	lbs/hr	CC7%O2
6F Other	336C2R1		5.40e-2	ng/dscm 7%O2	1.07e-9	lbs/hr	CC7%O2
6F Total	336C1R1		1.96e-1	ng/dscm 7%O2	4.49e-9	lbs/hr	OCE
6F Total	336C1R2		1.34e-1	ng/dscm 7%O2	2.85e-9	lbs/hr	OCE
6F Total	336C2R1		1.42e-1	ng/dscm 7%O2	2.81e-9	lbs/hr	OCE
7D 1234678	336C1R1		1.02e-1	ng/dscm 7%O2	2.34e-9	lbs/hr	CC7%O2
7D 1234678	336C1R2		1.13e-1	ng/dscm 7%O2	2.40e-9	lbs/hr	CC7%O2
7D 1234678	336C2R1		8.12e-2	ng/dscm 7%O2	1.61e-9	lbs/hr	CC7%O2
7D Other	336C1R1		7.77e-2	ng/dscm 7%O2	1.78e-9	lbs/hr	CC7%O2
7D Other	336C1R2		9.16e-2	ng/dscm 7%O2	1.95e-9	lbs/hr	CC7%O2
7D Other	336C2R1		6.66e-2	ng/dscm 7%O2	1.32e-9	lbs/hr	CC7%O2
7D Total	336C1R1		1.80e-1	ng/dscm 7%O2	4.12e-9	lbs/hr	OCE
7D Total	336C1R2		2.04e-1	ng/dscm 7%O2	4.35e-9	lbs/hr	OCE
7D Total	336C2R1		1.48e-1	ng/dscm 7%O2	2.93e-9	lbs/hr	OCE
7F 1234678	336C1R1	2	5.02e-2	ng/dscm 7%O2	1.15e-9	lbs/hr	CC7%O2
7F 1234678	336C1R2	2	1.00e-1	ng/dscm 7%O2	2.13e-9	lbs/hr	CC7%O2
7F 1234678	336C2R1		5.04e-2	ng/dscm 7%O2	1.00e-9	lbs/hr	CC7%O2
7F 1234789	336C1R1		1.56e-2	ng/dscm 7%O2	3.58e-10	lbs/hr	CC7%O2
7F 1234789	336C1R2	2	1.81e-2	ng/dscm 7%O2	3.85e-10	lbs/hr	CC7%O2
7F 1234789	336C2R1		1.75e-2	ng/dscm 7%O2	3.47e-10	lbs/hr	CC7%O2
7F Other	336C1R1		8.95e-3	ng/dscm 7%O2	2.05e-10	lbs/hr	CC7%O2
7F Other	336C1R2	2	1.74e-1	ng/dscm 7%O2	3.71e-9	lbs/hr	CC7%O2
7F Other	336C2R1		2.44e-2	ng/dscm 7%O2	4.84e-10	lbs/hr	CC7%O2
7F Total	336C1R1		7.48e-2	ng/dscm 7%O2	1.71e-9	lbs/hr	OCE
7F Total	336C1R2		2.92e-1	ng/dscm 7%O2	6.23e-9	lbs/hr	OCE
7F Total	336C2R1		9.23e-2	ng/dscm 7%O2	1.83e-9	lbs/hr	OCE
8D	336C1R1		2.67e-1	ng/dscm 7%O2	6.12e-9	lbs/hr	CC7%O2
8D	336C1R2		4.79e-1	ng/dscm 7%O2	1.02e-8	lbs/hr	CC7%O2
8D	336C2R1		2.72e-1	ng/dscm 7%O2	5.39e-9	lbs/hr	CC7%O2
8F	336C1R1		8.04e-2	ng/dscm 7%O2	1.84e-9	lbs/hr	CC7%O2
8F	336C1R2	2	1.07e-1	ng/dscm 7%O2	2.28e-9	lbs/hr	CC7%O2
8F	336C2R1		7.41e-2	ng/dscm 7%O2	1.47e-9	lbs/hr	CC7%O2
TEQ	336C1R1		4.77e-2	ng/dscm 7%O2	1.09e-9	lbs/hr	CCET
TEQ	336C1R2		3.54e-2	ng/dscm 7%O2	7.54e-10	lbs/hr	CCET
TEQ	336C2R1		3.56e-2	ng/dscm 7%O2	7.07e-10	lbs/hr	CCET
Total PCDD/PCDF	336C1R1		1.77e+0	ng/dscm 7%O2	4.04e-8	lbs/hr	CCET
Total PCDD/PCDF	336C1R2		1.69e+0	ng/dscm 7%O2	3.59e-8	lbs/hr	CCET
Total PCDD/PCDF	336C2R1		1.57e+0	ng/dscm 7%O2	3.11e-8	lbs/hr	CCET

7. Category: PAH

Analysis:

8. Substance	9. Run ID		Concentration		Mass Rate	Calc	
Acenaphthene	336C1R1	2	2.50e+4	ng/dscm 7%O2	5.74e-4	lbs/hr	CE7%O2
Acenaphthene	336C1R2	2	3.53e+4	ng/dscm 7%O2	7.52e-4	lbs/hr	CE7%O2

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

EPA VAD046970521

REGION: 3

4. EP ID: 336 DEVICE NAME: KILN NO. 1

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

Acenaphthene	336C2R1	2	4.51e+4	ng/dscm	7%O2	8.95e-4	lbs/hr	CE7%O2
Acenaphthylene	336C1R1	2	1.29e+3	ng/dscm	7%O2	2.95e-5	lbs/hr	CE7%O2
Acenaphthylene	336C1R2	2	1.82e+3	ng/dscm	7%O2	3.88e-5	lbs/hr	CE7%O2
Acenaphthylene	336C2R1	2	2.33e+3	ng/dscm	7%O2	4.62e-5	lbs/hr	CE7%O2
Anthracene	336C1R1	2	9.77e+2	ng/dscm	7%O2	2.24e-5	lbs/hr	CE7%O2
Anthracene	336C1R2	2	1.48e+3	ng/dscm	7%O2	3.16e-5	lbs/hr	CE7%O2
Anthracene	336C2R1	2	1.52e+3	ng/dscm	7%O2	3.01e-5	lbs/hr	CE7%O2
Benzo(a)anthracene	336C1R1	2	7.63e+2	ng/dscm	7%O2	1.75e-5	lbs/hr	CE7%O2
Benzo(a)anthracene	336C1R2	2	9.34e+2	ng/dscm	7%O2	1.99e-5	lbs/hr	CE7%O2
Benzo(a)anthracene	336C2R1	2	1.15e+3	ng/dscm	7%O2	2.28e-5	lbs/hr	CE7%O2
Benzo(a)pyrene	336C1R1	2	8.23e+2	ng/dscm	7%O2	1.89e-5	lbs/hr	CE7%O2
Benzo(a)pyrene	336C1R2	2	2.47e+3	ng/dscm	7%O2	5.26e-5	lbs/hr	CE7%O2
Benzo(a)pyrene	336C2R1	2	3.12e+4	ng/dscm	7%O2	6.19e-4	lbs/hr	CE7%O2
Benzo(b)fluoranthene	336C1R1	2	7.40e+2	ng/dscm	7%O2	1.70e-5	lbs/hr	CE7%O2
Benzo(b)fluoranthene	336C1R2	2	2.25e+3	ng/dscm	7%O2	4.79e-5	lbs/hr	CE7%O2
Benzo(b)fluoranthene	336C2R1	2	2.83e+4	ng/dscm	7%O2	5.61e-4	lbs/hr	CE7%O2
Benzo(g,h,i)perylene	336C1R1	2	8.60e+2	ng/dscm	7%O2	1.97e-5	lbs/hr	CE7%O2
Benzo(g,h,i)perylene	336C1R2	2	2.58e+3	ng/dscm	7%O2	5.50e-5	lbs/hr	CE7%O2
Benzo(g,h,i)perylene	336C2R1	2	3.26e+4	ng/dscm	7%O2	6.46e-4	lbs/hr	CE7%O2
Benzo(k)fluoranthene	336C1R1	2	7.87e+2	ng/dscm	7%O2	1.80e-5	lbs/hr	CE7%O2
Benzo(k)fluoranthene	336C1R2	2	2.37e+3	ng/dscm	7%O2	5.05e-5	lbs/hr	CE7%O2
Benzo(k)fluoranthene	336C2R1	2	2.98e+4	ng/dscm	7%O2	5.92e-4	lbs/hr	CE7%O2
Chrysene	336C1R1	2	8.33e+2	ng/dscm	7%O2	1.91e-5	lbs/hr	CE7%O2
Chrysene	336C1R2	2	1.02e+3	ng/dscm	7%O2	2.18e-5	lbs/hr	CE7%O2
Chrysene	336C2R1	2	1.25e+3	ng/dscm	7%O2	2.47e-5	lbs/hr	CE7%O2
Dibenz(a,h)anthracene	336C1R1	2	1.03e+3	ng/dscm	7%O2	2.35e-5	lbs/hr	CE7%O2
Dibenz(a,h)anthracene	336C1R2	2	3.09e+3	ng/dscm	7%O2	6.59e-5	lbs/hr	CE7%O2
Dibenz(a,h)anthracene	336C2R1	2	3.83e+4	ng/dscm	7%O2	7.61e-4	lbs/hr	CE7%O2
Fluoranthene	336C1R1	2	7.77e+2	ng/dscm	7%O2	1.78e-5	lbs/hr	CE7%O2
Fluoranthene	336C1R2	2	1.17e+3	ng/dscm	7%O2	2.50e-5	lbs/hr	CE7%O2
Fluoranthene	336C2R1	2	1.20e+3	ng/dscm	7%O2	2.39e-5	lbs/hr	CE7%O2
Fluorene	336C1R1	2	1.80e+3	ng/dscm	7%O2	4.13e-5	lbs/hr	CE7%O2
Fluorene	336C1R2	2	2.53e+3	ng/dscm	7%O2	5.40e-5	lbs/hr	CE7%O2
Fluorene	336C2R1	2	3.24e+3	ng/dscm	7%O2	6.44e-5	lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	336C1R1	2	7.77e+2	ng/dscm	7%O2	1.78e-5	lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	336C1R2	2	2.33e+3	ng/dscm	7%O2	4.97e-5	lbs/hr	CE7%O2
Indeno(1,2,3-cd)pyrene	336C2R1	2	2.95e+4	ng/dscm	7%O2	5.85e-4	lbs/hr	CE7%O2
Naphthalene	336C1R1		1.16e+5	ng/dscm	7%O2	2.67e-3	lbs/hr	CE7%O2
Naphthalene	336C1R2		1.07e+4	ng/dscm	7%O2	2.27e-4	lbs/hr	CE7%O2
Naphthalene	336C2R1		1.45e+5	ng/dscm	7%O2	2.89e-3	lbs/hr	CE7%O2
Phenanthrene	336C1R1	2	9.90e+2	ng/dscm	7%O2	2.27e-5	lbs/hr	CE7%O2
Phenanthrene	336C1R2	2	1.51e+3	ng/dscm	7%O2	3.21e-5	lbs/hr	CE7%O2
Phenanthrene	336C2R1	2	1.53e+3	ng/dscm	7%O2	3.04e-5	lbs/hr	CE7%O2
Pyrene	336C1R1	2	5.97e+2	ng/dscm	7%O2	1.37e-5	lbs/hr	CE7%O2
Pyrene	336C1R2	2	7.35e+2	ng/dscm	7%O2	1.57e-5	lbs/hr	CE7%O2
Pyrene	336C2R1	2	8.90e+2	ng/dscm	7%O2	1.77e-5	lbs/hr	CE7%O2

7. Category: Particulate

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
Particulate	336C1R1	7.33e-3 gr/dscf 7%O2	3.84e-1 lbs/hr	CC7%O2
Particulate	336C1R2	1.08e-2 gr/dscf 7%O2	5.25e-1 lbs/hr	CC7%O2
Particulate	336C2R1	7.22e-3 gr/dscf 7%O2	3.28e-1 lbs/hr	CC7%O2

7. Category: SVOC

Analysis:

8. Substance	9. Run ID	Concentration	Mass Rate	Calc
1,2,4-Trichlorobenzene	336C1R1	4.91e+3 ng/dscm 7%O2	1.13e-4 lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

4. EP ID: 336 DEVICE NAME: KILN NO. 1

EPA ID: VAD046970521

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

REGION: 3

1,2,4-Trichlorobenzene	336C1R2	2	5.69e+3	ng/dscm	7%O2	1.21e-4	lbs/hr	CC7%O2
1,2,4-Trichlorobenzene	336C2R1	2	5.75e+3	ng/dscm	7%O2	1.14e-4	lbs/hr	CC7%O2
1,2-Dichlorobenzene	336C1R1	2	4.85e+3	ng/dscm	7%O2	1.11e-4	lbs/hr	CE7%O2
1,2-Dichlorobenzene	336C1R2	2	5.12e+3	ng/dscm	7%O2	1.09e-4	lbs/hr	CE7%O2
1,2-Dichlorobenzene	336C2R1	2	5.13e+3	ng/dscm	7%O2	1.02e-4	lbs/hr	CE7%O2
1,3-Dichlorobenzene	336C1R1	2	4.63e+3	ng/dscm	7%O2	1.06e-4	lbs/hr	CE7%O2
1,3-Dichlorobenzene	336C1R2	2	4.88e+3	ng/dscm	7%O2	1.04e-4	lbs/hr	CE7%O2
1,3-Dichlorobenzene	336C2R1	2	4.90e+3	ng/dscm	7%O2	9.72e-5	lbs/hr	CE7%O2
1,4-Dichlorobenzene	336C1R1	2	4.48e+3	ng/dscm	7%O2	1.03e-4	lbs/hr	CE7%O2
1,4-Dichlorobenzene	336C1R2	2	4.73e+3	ng/dscm	7%O2	1.01e-4	lbs/hr	CE7%O2
1,4-Dichlorobenzene	336C2R1	2	4.75e+3	ng/dscm	7%O2	9.42e-5	lbs/hr	CE7%O2
2,2-Oxybis(1-chloropropane)	336C1R1	2	5.95e+3	ng/dscm	7%O2	1.36e-4	lbs/hr	CE7%O2
2,2-Oxybis(1-chloropropane)	336C1R2	2	6.26e+3	ng/dscm	7%O2	1.33e-4	lbs/hr	CE7%O2
2,2-Oxybis(1-chloropropane)	336C2R1	2	6.29e+3	ng/dscm	7%O2	1.25e-4	lbs/hr	CE7%O2
2,4,5-Trichlorophenol	336C1R1	2	7.02e+3	ng/dscm	7%O2	1.61e-4	lbs/hr	CE7%O2
2,4,5-Trichlorophenol	336C1R2	2	9.90e+3	ng/dscm	7%O2	2.11e-4	lbs/hr	CE7%O2
2,4,5-Trichlorophenol	336C2R1	2	1.26e+4	ng/dscm	7%O2	2.51e-4	lbs/hr	CE7%O2
2,4,6-Trichlorophenol	336C1R1	2	6.36e+3	ng/dscm	7%O2	1.46e-4	lbs/hr	CE7%O2
2,4,6-Trichlorophenol	336C1R2	2	8.97e+3	ng/dscm	7%O2	1.91e-4	lbs/hr	CE7%O2
2,4,6-Trichlorophenol	336C2R1	2	1.15e+4	ng/dscm	7%O2	2.28e-4	lbs/hr	CE7%O2
2,4-Dichlorophenol	336C1R1	2	6.37e+3	ng/dscm	7%O2	1.46e-4	lbs/hr	CE7%O2
2,4-Dichlorophenol	336C1R2	2	7.35e+3	ng/dscm	7%O2	1.57e-4	lbs/hr	CE7%O2
2,4-Dichlorophenol	336C2R1	2	7.56e+3	ng/dscm	7%O2	1.50e-4	lbs/hr	CE7%O2
2,4-Dimethylphenol	336C1R1	2	5.53e+3	ng/dscm	7%O2	1.27e-4	lbs/hr	CE7%O2
2,4-Dimethylphenol	336C1R2	2	6.39e+3	ng/dscm	7%O2	1.36e-4	lbs/hr	CE7%O2
2,4-Dimethylphenol	336C2R1	2	6.58e+3	ng/dscm	7%O2	1.31e-4	lbs/hr	CE7%O2
2,4-Dinitrophenol	336C1R1	2	2.24e+3	ng/dscm	7%O2	5.14e-5	lbs/hr	CE7%O2
2,4-Dinitrophenol	336C1R2	2	3.16e+3	ng/dscm	7%O2	6.73e-5	lbs/hr	CE7%O2
2,4-Dinitrophenol	336C2R1	2	4.03e+3	ng/dscm	7%O2	8.01e-5	lbs/hr	CE7%O2
2,4-Dinitrotoluene	336C1R1	2	5.09e+3	ng/dscm	7%O2	1.17e-4	lbs/hr	CE7%O2
2,4-Dinitrotoluene	336C1R2	2	7.19e+3	ng/dscm	7%O2	1.53e-4	lbs/hr	CE7%O2
2,4-Dinitrotoluene	336C2R1	2	9.18e+3	ng/dscm	7%O2	1.82e-4	lbs/hr	CE7%O2
2,6-Dinitrotoluene	336C1R1	2	7.57e+3	ng/dscm	7%O2	1.74e-4	lbs/hr	CE7%O2
2,6-Dinitrotoluene	336C1R2	2	1.07e+4	ng/dscm	7%O2	2.28e-4	lbs/hr	CE7%O2
2,6-Dinitrotoluene	336C2R1	2	1.36e+4	ng/dscm	7%O2	2.71e-4	lbs/hr	CE7%O2
2-Chloronaphthalene	336C1R1	2	2.21e+3	ng/dscm	7%O2	5.07e-5	lbs/hr	CE7%O2
2-Chloronaphthalene	336C1R2	2	3.03e+3	ng/dscm	7%O2	6.46e-5	lbs/hr	CE7%O2
2-Chloronaphthalene	336C2R1	2	3.87e+3	ng/dscm	7%O2	7.68e-5	lbs/hr	CE7%O2
2-Chlorophenol	336C1R1	2	5.14e+3	ng/dscm	7%O2	1.18e-4	lbs/hr	CE7%O2
2-Chlorophenol	336C1R2	2	5.41e+3	ng/dscm	7%O2	1.15e-4	lbs/hr	CE7%O2
2-Chlorophenol	336C2R1	2	5.44e+3	ng/dscm	7%O2	1.08e-4	lbs/hr	CE7%O2
2-Methylnaphthalene	336C1R1	2	2.67e+3	ng/dscm	7%O2	6.12e-5	lbs/hr	CE7%O2
2-Methylnaphthalene	336C1R2	2	3.08e+3	ng/dscm	7%O2	6.56e-5	lbs/hr	CE7%O2
2-Methylnaphthalene	336C2R1	2	3.17e+3	ng/dscm	7%O2	6.30e-5	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	336C1R1	2	6.33e+3	ng/dscm	7%O2	1.45e-4	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	336C1R2	2	6.67e+3	ng/dscm	7%O2	1.42e-4	lbs/hr	CE7%O2
2-Methylphenol (o-Cresol)	336C2R1	2	6.70e+3	ng/dscm	7%O2	1.33e-4	lbs/hr	CE7%O2
2-Nitroaniline	336C1R1	2	9.21e+3	ng/dscm	7%O2	2.11e-4	lbs/hr	CE7%O2
2-Nitroaniline	336C1R2	2	1.30e+4	ng/dscm	7%O2	2.77e-4	lbs/hr	CE7%O2
2-Nitroaniline	336C2R1	2	1.66e+4	ng/dscm	7%O2	3.29e-4	lbs/hr	CE7%O2
2-Nitrophenol	336C1R1	2	8.44e+3	ng/dscm	7%O2	1.94e-4	lbs/hr	CE7%O2
2-Nitrophenol	336C1R2	2	9.74e+3	ng/dscm	7%O2	2.08e-4	lbs/hr	CE7%O2
2-Nitrophenol	336C2R1	2	1.00e+4	ng/dscm	7%O2	1.99e-4	lbs/hr	CE7%O2
3,3-Dichlorobenzidine	336C1R1	2	3.01e+3	ng/dscm	7%O2	6.89e-5	lbs/hr	CE7%O2
3,3-Dichlorobenzidine	336C1R2	2	3.68e+3	ng/dscm	7%O2	7.85e-5	lbs/hr	CE7%O2
3,3-Dichlorobenzidine	336C2R1	2	4.47e+3	ng/dscm	7%O2	8.88e-5	lbs/hr	CE7%O2
3,4-Methylphenol	336C1R1	2	6.09e+3	ng/dscm	7%O2	1.40e-4	lbs/hr	CE7%O2
3,4-Methylphenol	336C1R2	2	6.43e+3	ng/dscm	7%O2	1.37e-4	lbs/hr	CE7%O2
3,4-Methylphenol	336C2R1	2	6.44e+3	ng/dscm	7%O2	1.28e-4	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

4. EP ID: 336 DEVICE NAME: KILN NO. 1

EPA ID: VAD046970521

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

REGION: 3

3-Nitroaniline	336C1R1	2	7.68e+3	ng/dscm	7%O2	1.76e-4	lbs/hr	CE7%O2
3-Nitroaniline	336C1R2	2	1.08e+4	ng/dscm	7%O2	2.31e-4	lbs/hr	CE7%O2
3-Nitroaniline	336C2R1	2	1.38e+4	ng/dscm	7%O2	2.74e-4	lbs/hr	CE7%O2
4,6-Dinitro-o-Cresol	336C1R1	2	9.87e+3	ng/dscm	7%O2	2.26e-4	lbs/hr	CE7%O2
4,6-Dinitro-o-Cresol	336C1R2	2	1.51e+4	ng/dscm	7%O2	3.21e-4	lbs/hr	CE7%O2
4,6-Dinitro-o-Cresol	336C2R1	2	1.54e+4	ng/dscm	7%O2	3.05e-4	lbs/hr	CE7%O2
4-Bromophenyl-phenylether	336C1R1	2	5.96e+3	ng/dscm	7%O2	1.37e-4	lbs/hr	CE7%O2
4-Bromophenyl-phenylether	336C1R2	2	9.10e+3	ng/dscm	7%O2	1.94e-4	lbs/hr	CE7%O2
4-Bromophenyl-phenylether	336C2R1	2	9.27e+3	ng/dscm	7%O2	1.84e-4	lbs/hr	CE7%O2
4-Chloro-3-methylphenol	336C1R1	2	7.19e+3	ng/dscm	7%O2	1.65e-4	lbs/hr	CE7%O2
4-Chloro-3-methylphenol	336C1R2	2	8.31e+3	ng/dscm	7%O2	1.77e-4	lbs/hr	CE7%O2
4-Chloro-3-methylphenol	336C2R1	2	8.55e+3	ng/dscm	7%O2	1.70e-4	lbs/hr	CE7%O2
4-Chloroaniline	336C1R1	2	4.27e+3	ng/dscm	7%O2	9.79e-5	lbs/hr	CE7%O2
4-Chloroaniline	336C1R2	2	4.94e+3	ng/dscm	7%O2	1.05e-4	lbs/hr	CE7%O2
4-Chloroaniline	336C2R1	2	5.07e+3	ng/dscm	7%O2	1.01e-4	lbs/hr	CE7%O2
4-Chlorophenyl-phenylether	336C1R1	2	4.10e+3	ng/dscm	7%O2	9.41e-5	lbs/hr	CE7%O2
4-Chlorophenyl-phenylether	336C1R2	ND	5.79e+3	ng/dscm	7%O2	1.23e-4	lbs/hr	CE7%O2
4-Chlorophenyl-phenylether	336C2R1	2	7.40e+3	ng/dscm	7%O2	1.47e-4	lbs/hr	CE7%O2
4-Methyl-2-pentanone	336C1R1	2	4.49e+2	ng/dscm	7%O2	1.03e-5	lbs/hr	CE7%O2
4-Methyl-2-pentanone	336C1R2	2	0.00e+0			0.00e+0		
4-Methyl-2-pentanone	336C2R1	2	7.26e+2	ng/dscm	7%O2	1.44e-5	lbs/hr	CE7%O2
4-Nitroaniline	336C1R1	2	6.30e+3	ng/dscm	7%O2	1.44e-4	lbs/hr	CE7%O2
4-Nitroaniline	336C1R2	2	8.87e+3	ng/dscm	7%O2	1.89e-4	lbs/hr	CE7%O2
4-Nitroaniline	336C2R1	2	1.13e+4	ng/dscm	7%O2	2.25e-4	lbs/hr	CE7%O2
4-Nitrophenol	336C1R1	2	1.77e+4	ng/dscm	7%O2	4.06e-4	lbs/hr	CE7%O2
4-Nitrophenol	336C1R2	2	2.50e+4	ng/dscm	7%O2	5.32e-4	lbs/hr	CE7%O2
4-Nitrophenol	336C2R1	2	3.19e+4	ng/dscm	7%O2	6.33e-4	lbs/hr	CE7%O2
Benzoic acid	336C1R1		1.05e+6	ng/dscm	7%O2	2.40e-2	lbs/hr	CE7%O2
Benzoic acid	336C1R2		1.20e+6	ng/dscm	7%O2	2.55e-2	lbs/hr	CE7%O2
Benzoic acid	336C2R1		1.27e+6	ng/dscm	7%O2	2.52e-2	lbs/hr	CE7%O2
Benzyl alcohol	336C1R1	2	1.29e+4	ng/dscm	7%O2	2.96e-4	lbs/hr	CE7%O2
Benzyl alcohol	336C1R2	2	1.36e+4	ng/dscm	7%O2	2.90e-4	lbs/hr	CE7%O2
Benzyl alcohol	336C2R1	2	1.36e+4	ng/dscm	7%O2	2.71e-4	lbs/hr	CE7%O2
bis(2-chloroethoxy) Methane	336C1R1	2	4.45e+3	ng/dscm	7%O2	1.02e-4	lbs/hr	CE7%O2
bis(2-chloroethoxy) Methane	336C1R2	2	5.14e+3	ng/dscm	7%O2	1.10e-4	lbs/hr	CE7%O2
bis(2-chloroethoxy) Methane	336C2R1	2	5.28e+3	ng/dscm	7%O2	1.05e-4	lbs/hr	CE7%O2
bis(2-chloroethyl) Ether	336C1R1	2	6.07e+3	ng/dscm	7%O2	1.39e-4	lbs/hr	CE7%O2
bis(2-chloroethyl) Ether	336C1R2	2	6.40e+3	ng/dscm	7%O2	1.36e-4	lbs/hr	CE7%O2
bis(2-chloroethyl) Ether	336C2R1	2	6.43e+3	ng/dscm	7%O2	1.28e-4	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	336C1R1		1.79e+4	ng/dscm	7%O2	4.09e-4	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	336C1R2		2.25e+4	ng/dscm	7%O2	4.80e-4	lbs/hr	CE7%O2
bis(2-ethylexyl) Phthalate	336C2R1		7.59e+3	ng/dscm	7%O2	1.51e-4	lbs/hr	CE7%O2
Butylbenzylphthalate	336C1R1		2.54e+3	ng/dscm	7%O2	5.82e-5	lbs/hr	CE7%O2
Butylbenzylphthalate	336C1R2	2	1.17e+3	ng/dscm	7%O2	2.50e-5	lbs/hr	CE7%O2
Butylbenzylphthalate	336C2R1	2	1.42e+3	ng/dscm	7%O2	2.82e-5	lbs/hr	CE7%O2
di-n-Butyl Phthalate	336C1R1		4.28e+4	ng/dscm	7%O2	9.82e-4	lbs/hr	CE7%O2
di-n-Butyl Phthalate	336C1R2		8.12e+4	ng/dscm	7%O2	1.73e-3	lbs/hr	CE7%O2
di-n-Butyl Phthalate	336C2R1		4.52e+4	ng/dscm	7%O2	8.97e-4	lbs/hr	CE7%O2
di-n-Octyl Phthalate	336C1R1	2	3.80e+2	ng/dscm	7%O2	8.71e-6	lbs/hr	CE7%O2
di-n-Octyl Phthalate	336C1R2	2	1.15e+3	ng/dscm	7%O2	2.45e-5	lbs/hr	CE7%O2
di-n-Octyl Phthalate	336C2R1	2	1.45e+4	ng/dscm	7%O2	2.89e-4	lbs/hr	CE7%O2
Dibenzofuran	336C1R1	2	1.34e+3	ng/dscm	7%O2	3.06e-5	lbs/hr	CE7%O2
Dibenzofuran	336C1R2	2	1.88e+3	ng/dscm	7%O2	4.01e-5	lbs/hr	CE7%O2
Dibenzofuran	336C2R1	2	2.41e+3	ng/dscm	7%O2	4.78e-5	lbs/hr	CE7%O2
Diethylphthalate	336C1R1		1.01e+4	ng/dscm	7%O2	2.32e-4	lbs/hr	CE7%O2
Diethylphthalate	336C1R2		6.85e+3	ng/dscm	7%O2	1.46e-4	lbs/hr	CE7%O2
Diethylphthalate	336C2R1		1.15e+4	ng/dscm	7%O2	2.29e-4	lbs/hr	CE7%O2
Dimethylphthalate	336C1R1	2	1.74e+3	ng/dscm	7%O2	3.99e-5	lbs/hr	CE7%O2
Dimethylphthalate	336C1R2	2	2.45e+3	ng/dscm	7%O2	5.21e-5	lbs/hr	CE7%O2

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SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

4. EP ID: 336 DEVICE NAME: KILN NO. 1

EPA ID: VAD046970521

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

REGION: 3

Dimethylphthalate	336C2R1	2	3.13e+3	ng/dscm	7%O2	6.22e-5	lbs/hr	CE7%O2
Ethylbenzene	336C1R1		2.47e+3	ng/dscm	7%O2	5.66e-5	lbs/hr	CE7%O2
Ethylbenzene	336C1R2		2.21e+3	ng/dscm	7%O2	4.71e-5	lbs/hr	CE7%O2
Ethylbenzene	336C2R1		1.95e+3	ng/dscm	7%O2	3.87e-5	lbs/hr	CE7%O2
Hexachlorobenzene	336C1R1	2	4.50e+3	ng/dscm	7%O2	1.03e-4	lbs/hr	CE7%O2
Hexachlorobenzene	336C1R2	2	6.86e+3	ng/dscm	7%O2	1.46e-4	lbs/hr	CE7%O2
Hexachlorobenzene	336C2R1	2	6.99e+3	ng/dscm	7%O2	1.39e-4	lbs/hr	CE7%O2
Hexachlorobutadiene	336C1R1	2	9.14e+3	ng/dscm	7%O2	2.09e-4	lbs/hr	CE7%O2
Hexachlorobutadiene	336C1R2	2	1.06e+4	ng/dscm	7%O2	2.25e-4	lbs/hr	CE7%O2
Hexachlorobutadiene	336C2R1	2	1.09e+4	ng/dscm	7%O2	2.16e-4	lbs/hr	CE7%O2
Hexachlorocyclopentadiene	336C1R1	2	8.75e+3	ng/dscm	7%O2	2.01e-4	lbs/hr	CE7%O2
Hexachlorocyclopentadiene	336C1R2	2	1.24e+4	ng/dscm	7%O2	2.63e-4	lbs/hr	CE7%O2
Hexachlorocyclopentadiene	336C2R1	2	1.58e+4	ng/dscm	7%O2	3.13e-4	lbs/hr	CE7%O2
Hexachloroethane	336C1R1	2	1.04e+4	ng/dscm	7%O2	2.38e-4	lbs/hr	CE7%O2
Hexachloroethane	336C1R2	2	1.09e+4	ng/dscm	7%O2	2.33e-4	lbs/hr	CE7%O2
Hexachloroethane	336C2R1	2	1.10e+4	ng/dscm	7%O2	2.17e-4	lbs/hr	CE7%O2
Isophorone	336C1R1	2	2.87e+3	ng/dscm	7%O2	6.59e-5	lbs/hr	CE7%O2
Isophorone	336C1R2		4.16e+4	ng/dscm	7%O2	8.85e-4	lbs/hr	CE7%O2
Isophorone	336C2R1		3.09e+4	ng/dscm	7%O2	6.13e-4	lbs/hr	CE7%O2
N-Nitroso-di-n-propylamine	336C1R1	2	1.18e+4	ng/dscm	7%O2	2.71e-4	lbs/hr	CE7%O2
N-Nitroso-di-n-propylamine	336C1R2	2	1.25e+4	ng/dscm	7%O2	2.66e-4	lbs/hr	CE7%O2
N-Nitroso-di-n-propylamine	336C2R1	2	1.25e+4	ng/dscm	7%O2	2.49e-4	lbs/hr	CE7%O2
N-Nitrosodiphenylamine	336C1R1	2	2.43e+3	ng/dscm	7%O2	5.58e-5	lbs/hr	CE7%O2
N-Nitrosodiphenylamine	336C1R2	2	3.72e+3	ng/dscm	7%O2	7.92e-5	lbs/hr	CE7%O2
N-Nitrosodiphenylamine	336C2R1	2	3.79e+3	ng/dscm	7%O2	7.52e-5	lbs/hr	CE7%O2
Nitrobenzene	336C1R1	2	5.31e+3	ng/dscm	7%O2	1.22e-4	lbs/hr	CE7%O2
Nitrobenzene	336C1R2	2	6.12e+3	ng/dscm	7%O2	1.31e-4	lbs/hr	CE7%O2
Nitrobenzene	336C2R1	2	6.30e+3	ng/dscm	7%O2	1.25e-4	lbs/hr	CE7%O2
Pentachlorophenol	336C1R1	2	1.03e+4	ng/dscm	7%O2	2.36e-4	lbs/hr	CE7%O2
Pentachlorophenol	336C1R2	2	1.57e+4	ng/dscm	7%O2	3.34e-4	lbs/hr	CE7%O2
Pentachlorophenol	336C2R1	2	1.60e+4	ng/dscm	7%O2	3.17e-4	lbs/hr	CE7%O2
Phenol	336C1R1		1.62e+4	ng/dscm	7%O2	3.70e-4	lbs/hr	CE7%O2
Phenol	336C1R2		9.44e+3	ng/dscm	7%O2	2.01e-4	lbs/hr	CE7%O2
Phenol	336C2R1	2	5.12e+3	ng/dscm	7%O2	1.02e-4	lbs/hr	CE7%O2

7. Category: VOC

Analysis:

8. Substance	9. Run ID		Concentration		Mass Rate	Calc	
1,1,1-Trichloroethane	336C1R1	2	1.80e+2	ng/dscm	4.13e-6	lbs/hr	CE7%O2
1,1,1-Trichloroethane	336C1R2	3	9.28e+2	ng/dscm	1.98e-5	lbs/hr	CE7%O2
1,1,1-Trichloroethane	336C2R1	3	2.32e+3	ng/dscm	4.60e-5	lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	336C1R1	2	1.80e+2	ng/dscm	4.13e-6	lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	336C1R2	2	4.87e+2	ng/dscm	1.04e-5	lbs/hr	CE7%O2
1,1,2,2-Tetrachloroethane	336C2R1	2	5.45e+2	ng/dscm	1.08e-5	lbs/hr	CE7%O2
1,1,2-Trichloroethane	336C1R1	2	3.60e+2	ng/dscm	8.25e-6	lbs/hr	CE7%O2
1,1,2-Trichloroethane	336C1R2	2	3.53e+2	ng/dscm	7.53e-6	lbs/hr	CE7%O2
1,1,2-Trichloroethane	336C2R1	2	3.62e+2	ng/dscm	7.20e-6	lbs/hr	CE7%O2
1,1-Dichloroethane	336C1R1	2	1.80e+2	ng/dscm	4.13e-6	lbs/hr	CE7%O2
1,1-Dichloroethane	336C1R2	2	1.77e+2	ng/dscm	3.76e-6	lbs/hr	CE7%O2
1,1-Dichloroethane	336C2R1	2	1.81e+2	ng/dscm	3.60e-6	lbs/hr	CE7%O2
1,1-Dichloroethene	336C1R1	3	4.94e+2	ng/dscm	1.13e-5	lbs/hr	CE7%O2
1,1-Dichloroethene	336C1R2	2	3.09e+2	ng/dscm	6.58e-6	lbs/hr	CE7%O2
1,1-Dichloroethene	336C2R1	3	6.35e+2	ng/dscm	1.26e-5	lbs/hr	CE7%O2
1,2-Dichloroethane	336C1R1	2	1.80e+2	ng/dscm	4.13e-6	lbs/hr	CE7%O2
1,2-Dichloroethane	336C1R2	2	1.77e+2	ng/dscm	3.76e-6	lbs/hr	CE7%O2
1,2-Dichloroethane	336C2R1	2	1.81e+2	ng/dscm	3.60e-6	lbs/hr	CE7%O2
1,2-Dichloropropane	336C1R1	2	1.80e+2	ng/dscm	4.13e-6	lbs/hr	CE7%O2
1,2-Dichloropropane	336C1R2	2	1.77e+2	ng/dscm	3.76e-6	lbs/hr	CE7%O2

US EPA ARCHIVE DOCUMENT

SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

4. EP ID: 336 DEVICE NAME: KILN NO. 1

EPA ID: VAD046970521

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

REGION: 3

1,2-Dichloropropane	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
2-Hexanone	336C1R1	2	8.10e+2	ng/dscm	7%O2	1.86e-5	lbs/hr	CE7%O2
2-Hexanone	336C1R2	2	8.85e+5	ng/dscm	7%O2	1.88e-2	lbs/hr	CE7%O2
2-Hexanone	336C2R1	2	8.62e+2	ng/dscm	7%O2	1.71e-5	lbs/hr	CE7%O2
Acetone	336C1R1		7.41e+4	ng/dscm	7%O2	1.70e-3	lbs/hr	CE7%O2
Acetone	336C1R2		6.63e+4	ng/dscm	7%O2	1.41e-3	lbs/hr	CE7%O2
Acetone	336C2R1	3	1.76e+4	ng/dscm	7%O2	3.50e-4	lbs/hr	CE7%O2
Benzene	336C1R1		2.29e+5	ng/dscm	7%O2	5.26e-3	lbs/hr	CE7%O2
Benzene	336C1R2		2.40e+5	ng/dscm	7%O2	5.11e-3	lbs/hr	CE7%O2
Benzene	336C2R1		2.57e+5	ng/dscm	7%O2	5.11e-3	lbs/hr	CE7%O2
Bromodichloromethane	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
Bromodichloromethane	336C1R2	2	1.77e+2	ng/dscm	7%O2	3.76e-6	lbs/hr	CE7%O2
Bromodichloromethane	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Bromoethane	336C1R1	2	3.60e+2	ng/dscm	7%O2	8.25e-6	lbs/hr	CE7%O2
Bromoethane	336C1R2	2	5.30e+2	ng/dscm	7%O2	1.13e-5	lbs/hr	CE7%O2
Bromoethane	336C2R1	2	5.45e+2	ng/dscm	7%O2	1.08e-5	lbs/hr	CE7%O2
Bromoform	336C1R1	2	3.60e+2	ng/dscm	7%O2	8.25e-6	lbs/hr	CE7%O2
Bromoform	336C1R2	2	3.98e+2	ng/dscm	7%O2	8.48e-6	lbs/hr	CE7%O2
Bromoform	336C2R1	2	3.62e+2	ng/dscm	7%O2	7.20e-6	lbs/hr	CE7%O2
Carbon disulfide	336C1R1		1.39e+4	ng/dscm	7%O2	3.18e-4	lbs/hr	CE7%O2
Carbon disulfide	336C1R2		1.19e+4	ng/dscm	7%O2	2.54e-4	lbs/hr	CE7%O2
Carbon disulfide	336C2R1		1.03e+4	ng/dscm	7%O2	2.05e-4	lbs/hr	CE7%O2
Carbon Tetrachloride	336C1R1		2.12e+3	ng/dscm	7%O2	4.86e-5	lbs/hr	CE7%O2
Carbon Tetrachloride	336C1R2		1.82e+3	ng/dscm	7%O2	3.87e-5	lbs/hr	CE7%O2
Carbon Tetrachloride	336C2R1		1.90e+3	ng/dscm	7%O2	3.77e-5	lbs/hr	CE7%O2
Chlorobenzene	336C1R1		4.64e+3	ng/dscm	7%O2	1.06e-4	lbs/hr	CE7%O2
Chlorobenzene	336C1R2		5.44e+3	ng/dscm	7%O2	1.16e-4	lbs/hr	CE7%O2
Chlorobenzene	336C2R1		5.85e+3	ng/dscm	7%O2	1.16e-4	lbs/hr	CE7%O2
Chloroethane	336C1R1	2	4.49e+2	ng/dscm	7%O2	1.03e-5	lbs/hr	CE7%O2
Chloroethane	336C1R2	2	5.30e+2	ng/dscm	7%O2	1.13e-5	lbs/hr	CE7%O2
Chloroethane	336C2R1	2	5.45e+2	ng/dscm	7%O2	1.08e-5	lbs/hr	CE7%O2
Chloroform	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
Chloroform	336C1R2	2	1.77e+2	ng/dscm	7%O2	3.76e-6	lbs/hr	CE7%O2
Chloroform	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Chloromethane	336C1R1	2	5.85e+2	ng/dscm	7%O2	1.34e-5	lbs/hr	CE7%O2
Chloromethane	336C1R2	2	5.75e+2	ng/dscm	7%O2	1.22e-5	lbs/hr	CE7%O2
Chloromethane	336C2R1	2	5.45e+2	ng/dscm	7%O2	1.08e-5	lbs/hr	CE7%O2
cis-1,2-Dichloroethene	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
cis-1,2-Dichloroethene	336C1R2	2	2.21e+2	ng/dscm	7%O2	4.71e-6	lbs/hr	CE7%O2
cis-1,2-Dichloroethene	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	336C1R2	2	1.77e+2	ng/dscm	7%O2	3.76e-6	lbs/hr	CE7%O2
cis-1,3-Dichloropropene	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Dibromochloromethane	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
Dibromochloromethane	336C1R2	2	2.21e+2	ng/dscm	7%O2	4.71e-6	lbs/hr	CE7%O2
Dibromochloromethane	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
m,p-Xylene	336C1R1		7.73e+3	ng/dscm	7%O2	1.77e-4	lbs/hr	CE7%O2
m,p-Xylene	336C1R2		1.03e+4	ng/dscm	7%O2	2.20e-4	lbs/hr	CE7%O2
m,p-Xylene	336C2R1		8.81e+3	ng/dscm	7%O2	1.75e-4	lbs/hr	CE7%O2
Methyl Ethyl Ketone	336C1R1	2	5.35e+3	ng/dscm	7%O2	1.23e-4	lbs/hr	CE7%O2
Methyl Ethyl Ketone	336C1R2	3	7.78e+3	ng/dscm	7%O2	1.66e-4	lbs/hr	CE7%O2
Methyl Ethyl Ketone	336C2R1	2	6.26e+3	ng/dscm	7%O2	1.24e-4	lbs/hr	CE7%O2
Methylene Chloride	336C1R1		8.85e+4	ng/dscm	7%O2	2.03e-3	lbs/hr	CE7%O2
Methylene Chloride	336C1R2		4.13e+4	ng/dscm	7%O2	8.79e-4	lbs/hr	CE7%O2
Methylene Chloride	336C2R1		2.59e+4	ng/dscm	7%O2	5.13e-4	lbs/hr	CE7%O2
o-Xylene	336C1R1		2.88e+3	ng/dscm	7%O2	6.61e-5	lbs/hr	CE7%O2
o-Xylene	336C1R2		3.89e+3	ng/dscm	7%O2	8.29e-5	lbs/hr	CE7%O2
o-Xylene	336C2R1		3.90e+3	ng/dscm	7%O2	7.75e-5	lbs/hr	CE7%O2
Styrene	336C1R1		1.08e+3	ng/dscm	7%O2	2.47e-5	lbs/hr	CE7%O2

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SECTION 7: EMISSIONS ANALYSES

1. COMPANY: SOLITE

2. STATE: VA

3. CITY: CASCADE

4. EP ID: 336 DEVICE NAME: KILN NO. 1

EPA ID: VAD046970521

REGION: 3

SYSTEM TYPE: LWA KILN

APC SYSTEM: FF

Styrene	336C1R2		1.32e+3	ng/dscm	7%O2	2.82e-5	lbs/hr	CE7%O2
Styrene	336C2R1		1.32e+3	ng/dscm	7%O2	2.62e-5	lbs/hr	CE7%O2
Tetrachloroethene	336C1R1	3	9.90e+2	ng/dscm	7%O2	2.27e-5	lbs/hr	CE7%O2
Tetrachloroethene	336C1R2	3	8.85e+2	ng/dscm	7%O2	1.88e-5	lbs/hr	CE7%O2
Tetrachloroethene	336C2R1	3	7.72e+2	ng/dscm	7%O2	1.53e-5	lbs/hr	CE7%O2
Toluene	336C1R1		1.04e+5	ng/dscm	7%O2	2.40e-3	lbs/hr	CE7%O2
Toluene	336C1R2		3.69e+4	ng/dscm	7%O2	7.87e-4	lbs/hr	CE7%O2
Toluene	336C2R1		2.41e+4	ng/dscm	7%O2	4.78e-4	lbs/hr	CE7%O2
trans-1,2-Dichloroethene	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
trans-1,2-Dichloroethene	336C1R2	2	3.09e+2	ng/dscm	7%O2	6.58e-6	lbs/hr	CE7%O2
trans-1,2-Dichloroethene	336C2R1	2	2.27e+2	ng/dscm	7%O2	4.50e-6	lbs/hr	CE7%O2
trans-1,3-Dichloropropene	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
trans-1,3-Dichloropropene	336C1R2	2	2.21e+2	ng/dscm	7%O2	4.71e-6	lbs/hr	CE7%O2
trans-1,3-Dichloropropene	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Trichloroethene	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
Trichloroethene	336C1R2	2	1.77e+2	ng/dscm	7%O2	3.76e-6	lbs/hr	CE7%O2
Trichloroethene	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Trichlorofluoromethane	336C1R1		2.14e+4	ng/dscm	7%O2	4.91e-4	lbs/hr	CE7%O2
Trichlorofluoromethane	336C1R2		1.75e+4	ng/dscm	7%O2	3.74e-4	lbs/hr	CE7%O2
Trichlorofluoromethane	336C2R1		2.01e+4	ng/dscm	7%O2	4.00e-4	lbs/hr	CE7%O2
Vinyl Acetate	336C1R1	2	1.80e+2	ng/dscm	7%O2	4.13e-6	lbs/hr	CE7%O2
Vinyl Acetate	336C1R2	2	1.77e+2	ng/dscm	7%O2	3.76e-6	lbs/hr	CE7%O2
Vinyl Acetate	336C2R1	2	1.81e+2	ng/dscm	7%O2	3.60e-6	lbs/hr	CE7%O2
Vinyl Chloride	336C1R1	2	4.05e+2	ng/dscm	7%O2	9.28e-6	lbs/hr	CE7%O2
Vinyl Chloride	336C1R2	2	4.42e+2	ng/dscm	7%O2	9.42e-6	lbs/hr	CE7%O2
Vinyl Chloride	336C2R1	2	4.08e+2	ng/dscm	7%O2	8.10e-6	lbs/hr	CE7%O2

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