

Instructions for Emissions Testing Template

- 1) **Three different tabs are provided based on the type of test performed:**
Emissions source test results should be entered in the "Emissions_Data" tab
Fuel gas sampling data should be entered in the "FuelGas_Data" tab
Wastewater sampling data should be entered in the "Wastewater_Data" tab
- 2) **Data should be entered into the white cells only; blue cells are intended for calculations**
- 3) **A list of pollutants, their CAS No./Pollutant Code, and their pollutant category are provided in the "F**
- 4) **Guidance for process data to report is provided below**

For fluid or thermal catalytic cracking units, "throughput/production" (in bbls/hr) is determined in terms of total feed including both fresh and recycle feed. Use coke burn-off rate (lbs/hr) as the secondary process data element. For fluid coking units, "throughput/production" (in bbls/hr) is determined in terms of charged liquid material (lbs/hr) as the secondary process data element.

For delayed coking units, "throughput/production" is determined in terms of charged liquid material (bbls/cycle). Use coke production rate (lbs dry coke/drum cycle) as the secondary process data element.

For catalytic reforming units, "throughput/production" is determined in terms of charged liquid material. Provide actual charge rate during the test (in bbls/hr); for cyclic and semi-regenerative reformers, provide charge rate since last regeneration (MMbbl/charge cycle). Use coke burn-off rate (lbs/hr) as the secondary process data element. Use chloriding agent addition rate (lbs/hr) for rejuvenation purge as the secondary process data element.

For catalytic hydrocracking units, "throughput/production" (in bbls/hr) is determined in terms of charged liquid material (bbls/hr) (hydrogen). Use hydrogen addition rate (scf/hr using 32°F (0°C) and 1 atmosphere) as the secondary process data element.

For hydrogen production units, "throughput/production" (scf/hr using 32°F (0°C) and 1 atmosphere) is based on quantity of purified hydrogen produced. No secondary process data are required.

For asphalt blowing units, "throughput/production" is based on quantity of asphalt in blowing still (bbl/hr) (bbl flow rate (scf/hr using 68°F (20°C) and 1 atmosphere as "standard conditions") as the secondary process data element.

For sulfur recovery units, "throughput/production" is based on quantity of elemental sulfur (for Claus units) produced in units of long tons per hour (LT/hr). 1 LT = 1.12 short tons. No secondary process data are required.

For fuel gas treatment sampling, "throughput/production" is the quantity of fuel gas input to the unit. Use fuel gas flow rate (scf/hr using 60°F (15.56°C) and 1 atmosphere as "standard conditions" for fuel gas treatment.

Pollutants" tab

ms of charged liquid material,
ment.

aterial. Use coke burn-off rate

ver the course of a drum cycle

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ial. For continuous reformers,
de cumulative charge quantity
data element for the coke burn-
ta element.

ged liquid material (i.e., excluding
as "standard conditions") as the

"standard conditions") is based

s/batch). Use blowing air inlet
s data.

units) or other sulfur product
required.

Throughput units are scf/hr; use

Emissions Test Data

Instruction:		Enter APCD used during test. Enter more than 1 APCD if needed (e.g., ESP1/WS1)		Enter other source reduction measures used during emission test (e.g., low NOx burners or catalyst additives)	
Field:		Facility ID Number	Unit ID Number	APCD_ID(s)	Combustion controls used to reduce air pollution (from combustion sources)



General source description, e.g., Fluid catalytic cracking unit; semiregenerative catalytic reforming unit; etc.	Assign a unique ID for each test report	Enter start date		Enter the pollutant measured (see pollutant list)
General Description	Test Report ID	Test Date (mm/dd/yyyy)	Other data provided	Pollutant Name

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Enter the feed input rate or production rate for each pollutant (see the pollutant tab for list of possible pollutants)		Enter the feed input rate or production rate for each pollutant (see the pollutant tab for list of possible pollutants)
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Pollutant CAS No.	Pollutant Class	Test Method	Process Throughput or Production Rate		
			Run 1 Hourly Production Rate (value)	Run 2 Hourly Production Rate (value)	Run 3 Hourly Production Rate (value)

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rate in units as specified in table for instructions tab for details)	Provide other processing rate data as specified in the of unit tested.
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Secondary Processing Rate Data						
Average Hourly Production Rate (value)	Hourly Production Rate (units)	Production comment	Run 1 Hourly Production Rate (value)	Run 2 Hourly Production Rate (value)	Run 3 Hourly Production Rate (value)	Average Hourly Production Rate (value)

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Qa	Qs	%M	Ts	Ps
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instructions for the type

Outlet - Run 1 Stack Gas Parameters

Hourly Production Rate (units)	Production comment	Run 1 Airflow Rate_Outlet (acfm)	Run 1 Airflow Rate_Outlet (dscfm)	Run 1 Gas Moisture_Out let (%)	Run 1 Gas Temp_Outlet (F)	Run 1 Gas Pressure_Outl et (in. Hg)
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%O2

Outlet - Run 2 Stack Gas Parameters

Run 1 Gas Oxygen_Outlet (%)	Run 2 Airflow Rate_Outlet (acfm)	Run 2 Airflow Rate_Outlet (dscfm)	Run 2 Gas Moisture_Outlet (%)	Run 2 Gas Temp_Outlet (F)	Run 2 Gas Pressure_Outlet (in. Hg)	Run 2 Gas Oxygen_Outlet (%)
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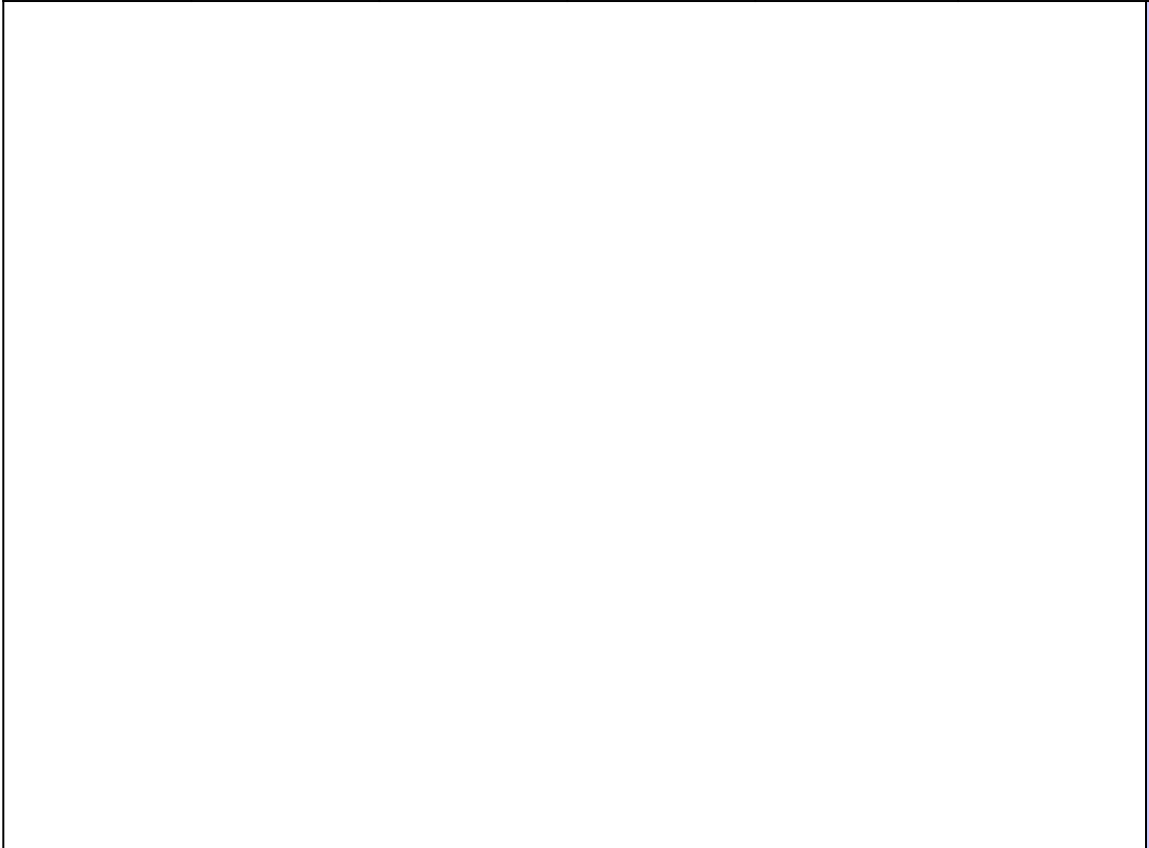


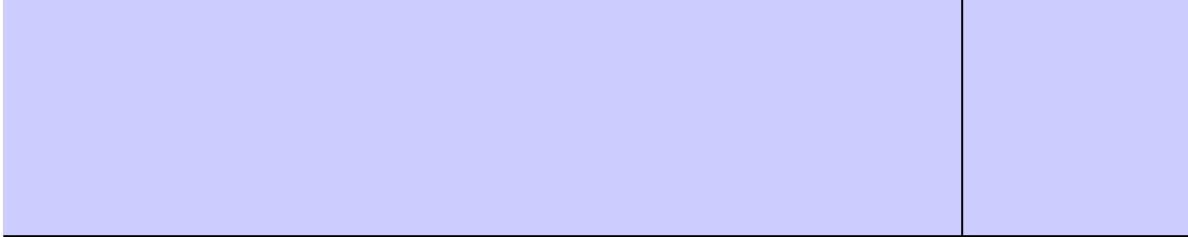
Outlet - Run 3 Stack Gas Parameters

Outlet - Average

Run 3 Airflow Rate_Outlet (acfm)	Run 3 Airflow Rate_Outlet (dscfm)	Run 3 Gas Moisture_Outlet (%)	Run 3 Gas Temp_Outlet (F)	Run 3 Gas Pressure_Outlet (in. Hg)	Run 3 Gas Oxygen_Outlet (%)	Average Airflow Rate_Outlet (acfm)
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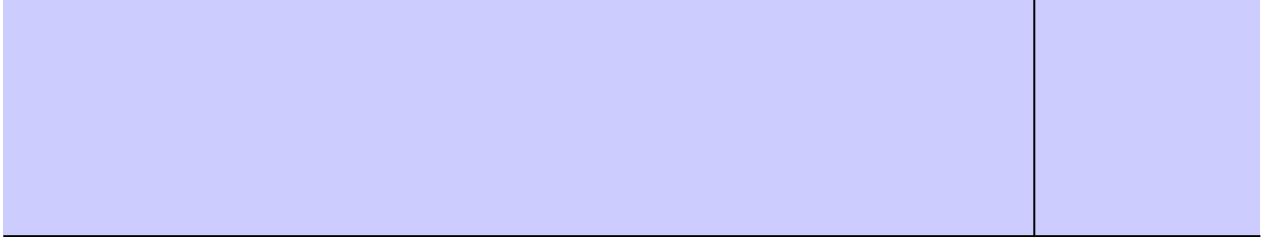




ie Stack Gas Parameters Outlet - Run 1 Er

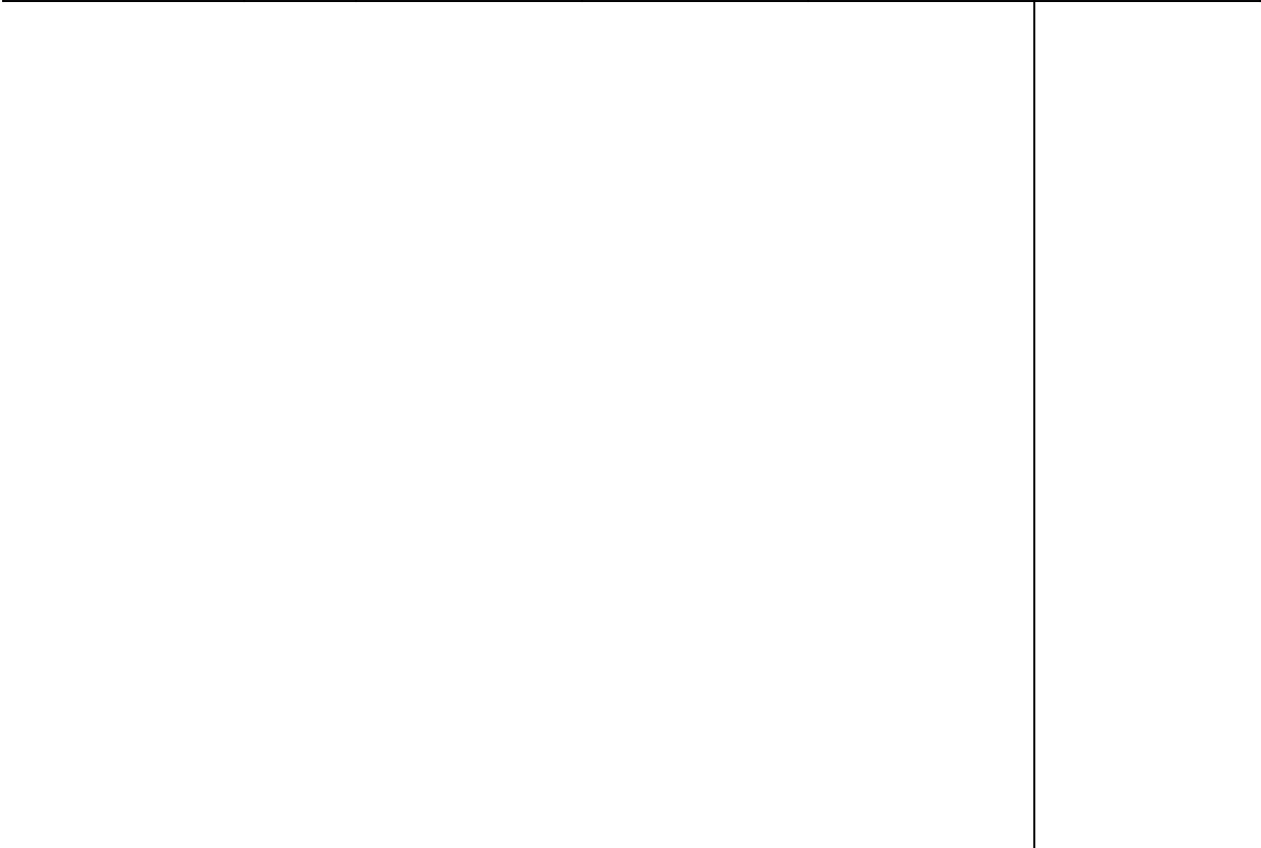
Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)	Average Gas Oxygen_Outlet (%)	Run 1_Outlet concentration
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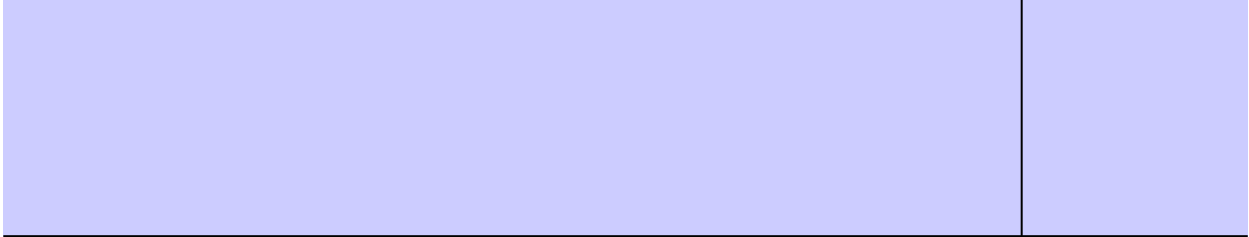
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missions Data

Run 1 Outlet concentration units	Run 1 Outlet Detect Flag	Run 1_Outlet (lb/hr)	Run 1_Outlet (lb/production)	Run 1 Lb/Production units	Run 2_Outlet concentration
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missions Data Outlet - Run 3 Er

Run 2 Outlet concentration units	Run 2 Outlet Detect Flag	Run 2_Outlet (lb/hr)	Run 2_Outlet (lb/production)	Run 2 Lb/Production units	Run 3_Outlet concentration
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link ro Run 1				link to Run 1	
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Use full detectic

missions Data

Outlet - Average E

Run 3 Outlet concentration units	Run 3 Outlet Detect Flag	Run 3_Outlet (lb/hr)	Run 3_Outlet (lb/production)	Run 3 Lb/Production units	Average_Outlet concentration
link ro Run 1				link to Run 1	

on limits in averages?

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Emissions Data Suspect

Average Outlet concentration units	Count Outlet Non-Detect Runs	Average_Outlet (lb/hr)	Average_Outlet (lb/production)	Average Lb/Production units	Suspect Data?
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Data	Exclude	Comment
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Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
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Emissions Test Data

Instruction:			General source description, e.g., mix drum for X,Y,Z units; mix drum for fuel gas system 1; etc.	Assign a unique ID for each test report
Field:	Facility ID Number	Fuel gas mix drum ID	General Description	Test Report ID

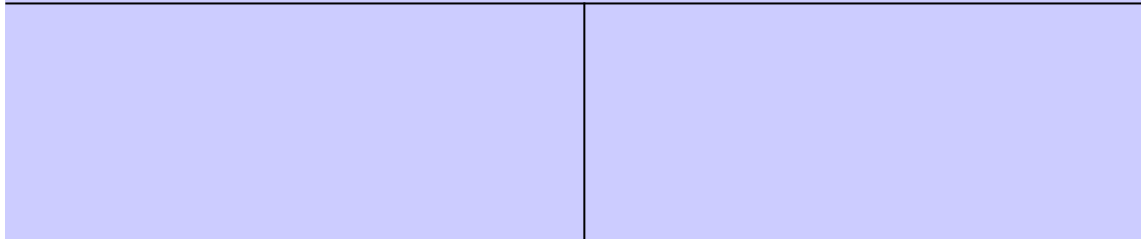


Enter start date		Enter the pollutant information for each pollutant measured (see pollutant tab for list of possible pollutants)		
Test Date (mm/dd/yyyy)	Other data provided	Pollutant Name	Pollutant CAS No.	Pollutant Class





	Enter the fuel gas flow rate or usage rates (in scfm at 60°F) from measurement data, company records, or engineering analyses					
	Process Throughput or Production Rate					Run 1
Test Method	Run 1 Fuel Gas Flow Rate (scfm)	Run 2 Fuel Gas Flow Rate (scfm)	Run 3 Fuel Gas Flow Rate (scfm)	Average Fuel Gas Flow Rate (scfm)	Production comment	Run 1 Concentration
				#DIV/0!		



Run 2

Run 1 Concentration units	Run 1 Detect Flag	Run 1 Mass flow (lb/hr)	Run 2 Concentration	Run 2 Concentration units	Run 2 Detect Flag
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				link ro Run 1	
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Run 3 Outlet - Average E

Run 2 Mass flow (lb/hr)	Run 3 Concentration	Run 3 Concentration units	Run 3 Detect Flag	Run 3 Mass flow (lb/hr)	Average concentration
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		link ro Run 1			
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Emissions Data			Suspect Data		Exclude
Average concentration units	Count Non-Detect Runs	Average Mass flow (lb/hr)	Suspect Data?	Cause for suspicion	Exclude Data?



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	Comment
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Reason for excluding	Test Report Comment
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Well-Mixed Assessment

Criteria or Description	Value
Meets definition of EBU Meets characteristics in Table 1 Meets specifications in Table 2 Calculated mixing time time	

Waste Water Sampling Data

Instruction:			General source description, e.g., submerged aeration activated sludge unit; UNOX system; etc.	Assign a unique ID for each test report
Field:				
	Facility ID Number	Unit ID Number	General Description	Test Report ID

F_{bio} Determination

Compound	F _{bio}	First-order biorate, k1 (L/gMLVSS-hr)
Benzene Only Spike		
Benzene		
Multi-compound Spike		
Benzene		
Toluene		
Xylene		
Naphthalene		

Enter start date		Enter the pollutant information for each pollutant measured (see pollutant tab for list of possible pollutants)		
Test Date (mm/dd/yyyy)	Other data provided	Pollutant Name	Pollutant CAS No.	Pollutant Class



Enter the wastewater flow rate and other parameters of the wastewater of

Process Throughput or Production Rate						
Test Method	Average wastewater flow rate during test (m3/sec)	Wastewater pH	Wastewater temperature	Volatile suspended solids in biological treatment unit (g/L) (units)	Total horsepower to surface aerators (HP)	Total air flow rate to diffused aerators (scfm at 68°F)

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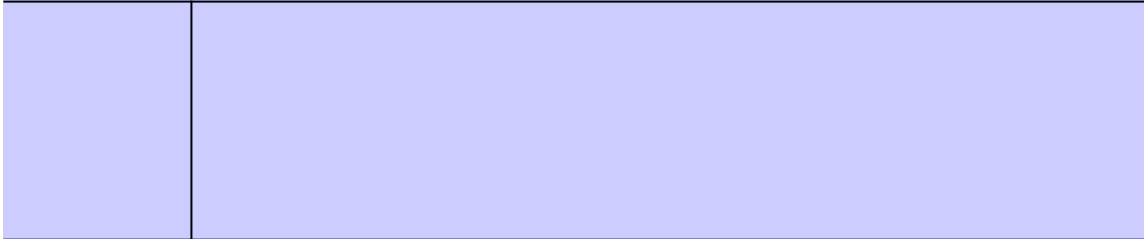


of unit tested.

Influent Sample Results

Other information or comment	Run 1 Airflow Rate_Outlet (acfm)	Run 1 Airflow Rate_Outlet (dscfm)	Run 1 Gas Moisture_Outlet (%)	Run 1 Gas Temp_Outlet (F)	Run 1 Gas Pressure_Outlet (in. Hg)
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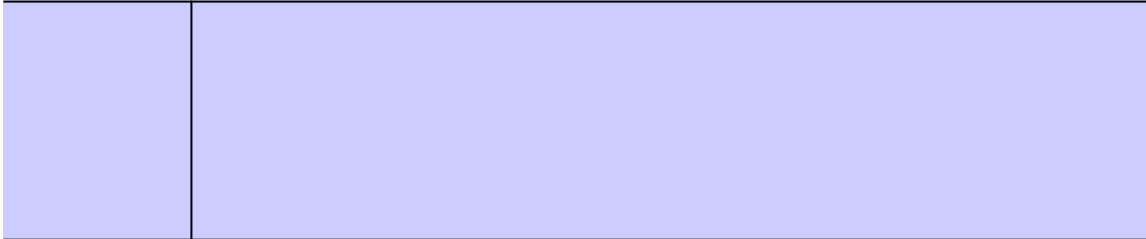
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Within Biological Treatment Unit Results

Run 1 Gas Oxygen_Outlet (%)	Run 2 Airflow Rate_Outlet (acfm)	Run 2 Airflow Rate_Outlet (dscfm)	Run 2 Gas Moisture_Outlet (%)	Run 2 Gas Temp_Outlet (F)	Run 2 Gas Pressure_Outlet (in. Hg)
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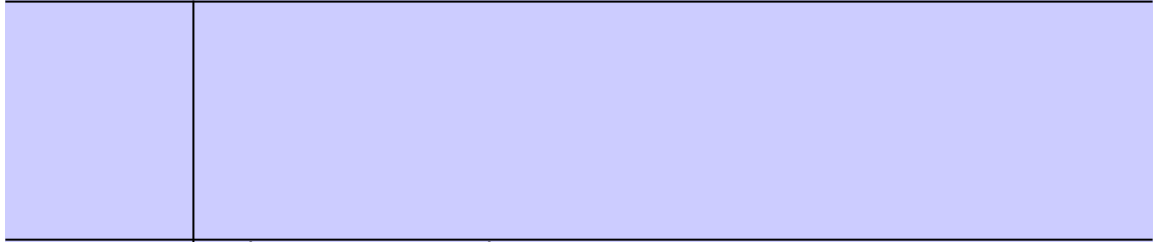
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Effluent Sample Results

Run 2 Gas Oxygen_Outlet (%)	Run 3 Airflow Rate_Outlet (acfm)	Run 3 Airflow Rate_Outlet (dscfm)	Run 3 Gas Moisture_Outlet (%)	Run 3 Gas Temp_Outlet (F)	Run 3 Gas Pressure_Outlet (in. Hg)
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Outlet - Average Stack Gas Parameters

Run 3 Gas Oxygen_Outlet (%)	Average Airflow Rate_Outlet (acfm)	Average Airflow Rate_Outlet (dscfm)	Average Gas Moisture_Outlet (%)	Average Gas Temp_Outlet (F)	Average Gas Pressure_Outlet (in. Hg)
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Suspect Data Exclude Comment

Average Gas Oxygen_Outlet (%)	Suspect Data?	Cause for suspicion	Exclude Data?	Reason for excluding	Test Report Comment
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Pollutant_Class	CAS_Number
1 Criteria Pollutants	630-08-0
2 Criteria Pollutants	PM10-PRI
3 Criteria Pollutants	PM10-FIL
4 Criteria Pollutants	PM25-PRI
5 Criteria Pollutants	PM25-FIL
6 Criteria Pollutants	PM-CON
7 Criteria Pollutants	10102-44-0
8 Criteria Pollutants	NOX
9 Criteria Pollutants	7446-09-5
10 Criteria Pollutants	VOC
11 VOC	74-85-1
12 VOC	74-86-2
13 VOC	74-98-6
14 VOC	115-07-1
15 VOC	463-49-0
16 VOC	106-97-8
17 VOC	75-28-5
18 VOC	106-98-9
19 VOC	107-01-7
20 VOC	115-11-7
21 VOC	590-19-2
22 VOC	109-66-0
23 VOC	78-78-4
24 VOC	287-92-3
25 VOC	591-95-7
26 VOC	1574-41-0
27 VOC	2004-70-8
28 VOC	591-93-5
29 VOC	591-96-8
30 VOC	598-25-4
31 VOC	78-79-5
32 VOC	542-92-7
33 VOC	110-82-7
34 VOC	108-87-2
35 VOC	142-82-5
36 VOC	111-65-9
37 VOC	78-93-3
38 VOC	25551-13-7
39 Volatile Organic HAP	75-07-0
40 Volatile Organic HAP	107-02-8
41 Volatile Organic HAP	62-53-3
42 Volatile Organic HAP	71-43-2

43 Volatile Organic HAP	74-83-9
44 Volatile Organic HAP	106-99-0
45 Volatile Organic HAP	75-00-3
46 Volatile Organic HAP	67-66-3
47 Volatile Organic HAP	74-87-3
48 Volatile Organic HAP	98-82-8
49 Volatile Organic HAP	106-93-4
50 Volatile Organic HAP	106-46-7
51 Volatile Organic HAP	75-34-3
52 Volatile Organic HAP	107-06-2
53 Volatile Organic HAP	75-35-4
54 Volatile Organic HAP	78-87-5
55 Volatile Organic HAP	542-75-6
56 Volatile Organic HAP	111-42-2
57 Volatile Organic HAP	100-41-4
58 Volatile Organic HAP	50-00-0
59 Volatile Organic HAP	67-72-1
60 Volatile Organic HAP	110-54-3
61 Volatile Organic HAP	67-56-1
62 Volatile Organic HAP	108-10-1
63 Volatile Organic HAP	1634-04-4
64 Volatile Organic HAP	100-42-5
65 Volatile Organic HAP	79-34-5
66 Volatile Organic HAP	127-18-4
67 Volatile Organic HAP	108-88-3
68 Volatile Organic HAP	79-00-5
69 Volatile Organic HAP	79-01-6
70 Volatile Organic HAP	121-44-8
71 Volatile Organic HAP	540-84-1
72 Volatile Organic HAP	593-60-2
73 Volatile Organic HAP	75-01-4
74 Volatile Organic HAP	95-47-6
75 Volatile Organic HAP	108-38-3
76 Volatile Organic HAP	106-42-3
77 Volatile Organic HAP	1330-20-7
78 Semi-Volatile/Non-Volatile Organic HAP	83-32-9
79 Semi-Volatile/Non-Volatile Organic HAP	208-96-8
80 Semi-Volatile/Non-Volatile Organic HAP	120-12-7
81 Semi-Volatile/Non-Volatile Organic HAP	56-55-3
82 Semi-Volatile/Non-Volatile Organic HAP	50-32-8
83 Semi-Volatile/Non-Volatile Organic HAP	205-99-2
84 Semi-Volatile/Non-Volatile Organic HAP	192-97-2
85 Semi-Volatile/Non-Volatile Organic HAP	191-24-2

86 Semi-Volatile/Non-Volatile Organic HAP	207-08-9
87 Semi-Volatile/Non-Volatile Organic HAP	92-52-4
88 Semi-Volatile/Non-Volatile Organic HAP	117-81-7
89 Semi-Volatile/Non-Volatile Organic HAP	91-58-7
90 Semi-Volatile/Non-Volatile Organic HAP	108-39-4
91 Semi-Volatile/Non-Volatile Organic HAP	95-48-7
92 Semi-Volatile/Non-Volatile Organic HAP	106-44-5
93 Semi-Volatile/Non-Volatile Organic HAP	1319-77-3
94 Semi-Volatile/Non-Volatile Organic HAP	218-01-9
95 Semi-Volatile/Non-Volatile Organic HAP	53-70-3
96 Semi-Volatile/Non-Volatile Organic HAP	84-74-2
97 Semi-Volatile/Non-Volatile Organic HAP	84-66-2
98 Semi-Volatile/Non-Volatile Organic HAP	57-97-6
99 Semi-Volatile/Non-Volatile Organic HAP	206-44-0
100 Semi-Volatile/Non-Volatile Organic HAP	86-73-7
101 Semi-Volatile/Non-Volatile Organic HAP	193-39-5
102 Semi-Volatile/Non-Volatile Organic HAP	56-49-5
103 Semi-Volatile/Non-Volatile Organic HAP	91-57-6
104 Semi-Volatile/Non-Volatile Organic HAP	218-01-9
105 Semi-Volatile/Non-Volatile Organic HAP	91-20-3
106 Semi-Volatile/Non-Volatile Organic HAP	198-55-0
107 Semi-Volatile/Non-Volatile Organic HAP	85-01-8
108 Semi-Volatile/Non-Volatile Organic HAP	108-95-2
109 Semi-Volatile/Non-Volatile Organic HAP	129-00-0
110 Dioxins Furans and PCBs	1746-01-6
111 Dioxins Furans and PCBs	40321-76-4
112 Dioxins Furans and PCBs	39227-28-6
113 Dioxins Furans and PCBs	57653-85-7
114 Dioxins Furans and PCBs	19408-74-3
115 Dioxins Furans and PCBs	35822-46-9
116 Dioxins Furans and PCBs	3268-87-9
117 Dioxins Furans and PCBs	132-64-9
118 Dioxins Furans and PCBs	51207-31-9
119 Dioxins Furans and PCBs	57117-41-6
120 Dioxins Furans and PCBs	57117-31-4
121 Dioxins Furans and PCBs	70648-26-9
122 Dioxins Furans and PCBs	57117-44-9
123 Dioxins Furans and PCBs	72918-21-9
124 Dioxins Furans and PCBs	60851-34-5
125 Dioxins Furans and PCBs	67562-39-4
126 Dioxins Furans and PCBs	55673-89-7
127 Dioxins Furans and PCBs	39001-02-0
128 Dioxins Furans and PCBs	1336-36-3

129 Metal HAP	7440-36-0
130 Metal HAP	7440-38-2
131 Metal HAP	7440-41-7
132 Metal HAP	7440-43-9
133 Metal HAP	18540-29-9
134 Metal HAP	7440-47-3
135 Metal HAP	7440-48-4
136 Metal HAP	7439-92-1
137 Metal HAP	7439-96-5
138 Metal HAP	7439-97-6
139 Metal HAP	7440-02-0
140 Metal HAP	7782-49-2
141 Other Inorganic HAP	75-15-0
142 Other Inorganic HAP	463-58-1
143 Other Inorganic HAP	7782-50-5
144 Other Inorganic HAP	7647-01-0
145 Other Inorganic HAP	74-90-8
146 Other Inorganic HAP	7664-39-3
147 Other Inorganic HAP	7723-14-0
148 Other Compounds	7664-41-7
149 Other Compounds	74-84-0
150 Other Compounds	7783-06-4
151 Other Compounds	7440-39-3
152 Other Compounds	7440-50-8
153 Other Compounds	7439-98-7
154 Other Compounds	7440-62-2
155 Other Compounds	7440-66-6
156 Surrogate	HHV
157 Surrogate	THC
158 Surrogate	TRS
159 Surrogate	Sulfide
160 Surrogate	BOD5
161 Surrogate	COD

Substance

Carbon monoxide

Particulate matter (PM) $\leq 10 \mu\text{m}$

Filterable PM $\leq 10 \mu\text{m}$

PM $\leq 2.5 \mu\text{m}$

Filterable PM $\leq 2.5 \mu\text{m}$

Condensable PM

Nitrogen dioxide

Nitrogen oxides

Sulfur dioxide

Volatile organic compounds

Ethylene

Acetylene

Propane

Propylene

Propadiene

n-Butane

Isobutane

1-Butene

2-Butene

Isobutene

1,2-Butadiene

n-pentane

2-Methylbutane

Cyclopentane

1,2-Pentadiene

1-cis-3-Pentadiene

1-trans-3-Pentadiene

1,4-Pentadiene

2,3-Pentadiene

3-Methyl-1,2-butadiene

2-Methyl-1,3-butadiene

Cyclopentadiene

Cyclohexane

Methylcyclohexane

Heptane (and isomers)

Octane (and isomers)

Methyl ethyl ketone

Trimethylbenzene(s)

Acetaldehyde

Acrolein

Aniline

Benzene

Bromomethane
1,3-Butadiene
Chloroethane
Chloroform
Chloromethane
Cumene
1,2-Dibromoethane
1,4-Dichlorobenzene
1,1-Dichloroethane
1,2-Dichloroethane
1,1-Dichloroethylene
1,2-Dichloropropane
1,3-Dichloropropene
Diethanolamine
Ethylbenzene
Formaldehyde
Hexachloroethane
n-Hexane
Methanol
Methyl isobutyl ketone
Methyl tert-butyl ether
Styrene
1,1,1,2-Tetrachloroethane
Tetrachloroethylene
Toluene
1,1,2-Trichloroethane
Trichloroethylene
Triethylamine
2,2,4-Trimethylpentane
Vinyl bromide
Vinyl chloride
o-Xylene
m-Xylene
p-Xylene
Xylenes (total)
Acenaphthene
Acenaphthylene
Anthracene
Benzo(a)anthracene
Benzo(a)pyrene
Benzo(b)fluoranthene
Benzo(e)pyrene
Benzo(g,h,i)perylene

Benzo(k)fluoranthene
Biphenyl
Bis(2-ethyl hexyl)phthalate
2-Chloronaphthalene
m-Cresol
o-Cresol
p-Cresol
Cresols (total)
Chrysene
Dibenz(a,h)anthracene
di-n-Butyl phthalate
Diethyl-phthalate
7,12-Dimethylbenz(a) anthracene
Fluoranthene
Fluorene
Indeno(1,2,3-cd) pyrene
3-Methylchloranthrene
2-Methylnaphthalene
Chrysene
Naphthalene
Perylene
Phenanthrene
Phenol
Pyrene
Dioxin: 4D 2378
Dioxin: 5D 12378
Dioxin: 6D 123478
Dioxin: 6D 123678
Dioxin: 6D 123789
Dioxin: 7D 1234678
Dioxin: 8D
Dibenzofurans
Furan: 4F 2378
Furan: 5F 12378
Furan: 5F 23478
Furan: 6F 123478
Furan: 6F 123678
Furan: 6F 123789
Furan: 6F 234678
Furan: 7F 1234678
Furan: 7F 1234789
Furan: 8F
Polychlorinated biphenyls (total)

Antimony
Arsenic
Beryllium
Cadmium
Chromium (hexavalent)
Chromium (total)
Cobalt
Lead
Manganese
Mercury
Nickel
Selenium
Carbon disulfide
Carbonyl sulfide
Chlorine
Hydrogen chloride
Hydrogen cyanide (& cyanide compounds)
Hydrogen fluoride
Phosphorus
Ammonia
Ethane
Hydrogen sulfide
Barium
Copper
Molybdenum
Vanadium
Zinc
Higher Heating Value (HHV)
Total Hydrocarbon (THC)
Total Reduced Sulfur (TRS)
Sulfide
5-day Biological Oxygen Demand
Chemical Oxygen Demand