

STATE OF LOUISIANA

DEPARTMENT OF ENVIRONMENTAL QUALITY

IN THE MATTER OF:

GALATA CHEMICALS, LLC

AI # 2706

PROCEEDINGS UNDER THE LOUISIANA
ENVIRONMENTAL QUALITY ACT
LA. R.S. 30:2001, ET SEQ.

* Settlement Tracking No.
* SA-AE-14-0068
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* Enforcement Tracking No.
* AE-PP-11-01173
* AE-PP-11-01173A
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SETTLEMENT

The following Settlement is hereby agreed to between Galata Chemicals, LLC (“Respondent”) and the Department of Environmental Quality (“DEQ” or “the Department”), under authority granted by the Louisiana Environmental Quality Act, La. R.S. 30:2001, et seq. (“the Act”).

I

Respondent is a limited liability company that owns and/or operates a facility located in Taft, St. Charles Parish, Louisiana (“the Facility”).

II

On December 2, 2011, the Department issued to Respondent a Notice of Potential Penalty (NOPP), Enforcement No. AE-PP-11-01173, which was based upon the following findings of fact:

“On or about September 1, 2011, a file review of **TAFT FACILITY (the facility)**, owned and/or operated by **GALATA CHEMICALS, LLC (RESPONDENT)**, was performed to determine the degree of compliance with the Louisiana Environmental Quality Act (the Act) and the Air Quality Regulations. The facility is located at 417 La. Highway 3142 in Taft, St. Charles Parish, Louisiana. The facility currently operates under Permit No. 2520-00015-09 issued on April 9, 2009.

While the investigation by the Louisiana Department of Environmental Quality (the Department) is not yet complete, the following violations were noted during the course of the file review:

A. According to the Respondent's 2010 First Semiannual Emissions Exceedance Report dated September 21, 2010, the Respondent reported the following unauthorized exceedances from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

Date of Release	Duration of Release (Hours)	Cause of Release	Pollutant	Permitted Emission (Max Pounds/Hour)	Exceedance (Pounds in Excess)
February 20, 2010	0.38	Abnormal thermal oxidizer fire box temperature fluctuations	Total VOC	0.550	0.160
			n-Hexane	<0.010	0.016
			2,2,4-Trimethylpentane	<0.010	0.001
February 23, 2010	0.92	High temperature safety interlock	Total VOC	0.550	5.250
			n-Hexane	<0.010	0.040
			2,2,4- Trimethylpentane	<0.010	0.003
February 25, 2010	6.83	Damage to fire box thermo well	Total VOC	0.550	3.330
			n-Hexane	0.010	0.280
			2,2,4- Trimethylpentane	0.010	0.021
March 1, 2010 March 2, 2010	3.64	Internal Inspection	Total VOC	0.550	6.950
			n-Hexane	0.010	0.130
			2,2,4- Trimethylpentane	0.010	0.010
			Methyl chloride	0.010	0.461
March 16, 2010	0.20	Misaligned overhead valve*	Total VOC	0.550	0.062
			Methyl chloride	0.010	0.170
April 27, 2010	0.92	Tin unit LFL meter faulted	Total VOC	0.550	5.300
			n-Hexane	0.010	0.040
			Methyl chloride	0.010	0.870
May 5, 2010	0.08	Cooling tower "fill valve" stuck closed	Total VOC	0.550	0.035
			n-Hexane	0.010	0.003
			2,2,4- Trimethylpentane	0.010	0.0003
May 19, 2010	0.83	Worker dislodged a loose wire in UPS distribution panel*	Total VOC	0.550	63.000
			n-Hexane	0.010	0.034
			2,2,4- Trimethylpentane	0.010	0.003
			Methyl chloride	0.010	0.630
May 20, 2010	0.08	Error in instrument calibration*	Total VOC	0.550	0.020
			Methyl chloride	0.010	0.070
May 24, 2010	0.02	Partial plug in ED-606 scrubber	Total VOC	0.550	0.009
			n-Hexane	0.010	0.0008
			2,2,4- Trimethylpentane	0.010	0.0001
June 25, 2010	0.08	pH probe caused "hard" shutdown*	Total VOC	0.550	0.020
			Methyl chloride	0.010	0.070

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

- B. According to the Respondent's 2010 Annual Scrubber Report dated March 18, 2011, the Respondent reported the following exceedances of operational conditions:

Emission Point	Flow Rate		pH	
	Permitted Flow Rate (gpm)	Hours out of Range	Permitted pH (s.u)	Hours out of Range
EQT 0141	>=10.00	1.33	<=3.00	1.00
EQT 0069	>=100.00	5.72	>=3.00	0.00
EQT 0070	>=10.00	3.00	>=8.00	0.00
EQT 0140	>=10.00	6.83	>=10.00	0.75
EQT 0206	>=8.00	0.17	>=10.00	0.00
EQT 0075	>=17.00	2.00	>=10.00	2.00

Each operation outside of the permitted minimum flow rate and the minimum and/or maximum pH range is a violation of LAC 33:III.501.C.4, Specific Requirement Nos. 155, 194, 202, 227, 229, 235, 236, 295, and 296 of Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

- C. According to the Respondent's 2010 Annual Tin Unit Condenser Report dated March 18, 2011, the Respondent reported the following exceedance of operational conditions from TD-109/134 Steam Jets (EQT 0299):

Date	Permitted Condenser Gas Exit Temperature	Hours Out of Range
May 5, 2010	<=135°F	3.39

The operation outside of the permitted condenser gas exit temperature is a violation of LAC 33:III.501.C.4, Specific Requirement No. 249 of Air Permit No. 2500-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

- D. According to the Respondent's 2010 Annual UB-1300 Thermal Oxidizer Temperature Report dated March 23, 2011, the Respondent reported the following exceedances of operational conditions from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

Date	Permitted Minimum Combustion Chamber Temperature	Hours out of Range
February 20, 2010	>=1600°F	3.00
April 6, 2010	>=1600°F	6.00
April 14, 2010	>=1600°F	2.00
May 5, 2010	>=1600°F	1.00
May 9, 2010	>=1600°F	1.00
May 13, 2010	>=1600°F	1.00
May 28, 2010	>=1600°F	1.00
June 3, 2010	>=1600°F	1.00
June 6, 2010	>=1600°F	2.00

Each operation outside the permitted combustion chamber temperature is a violation of LAC 33:III.501.C.4, Specific Requirement No. 285 of Air Permit No. 2500-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

E. According to the Respondent's 2010 Second Semiannual Emissions Exceedance Report dated March 25, 2011, the Respondent reported the following unauthorized exceedances from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

Date of Release	Duration of Release (Hours)	Cause of Release	Pollutant	Permitted Emission (Max Pounds/Hour)	Exceedance (Pounds in Excess)
July 11, 2010	0.50	Thermal Oxidizer shut down after operator opened drain valve.	Total VOC	0.550	0.530
			n-Hexane	<0.010	0.021
			2,2,4-Trimethylpentane	<0.010	0.002
July 27, 2010	6.22	Thermal Oxidizer shut down due to low scrubber level.	Total VOC	0.550	4.690
			n-Hexane	<0.010	0.260
			2,2,4- Trimethylpentane	<0.010	0.020
October 2, 2010; October 4, 2010	1.54	Cleaning line pump lost suction causing Thermal Oxidizer to shut down.	Total VOC	0.550	1.200
			n-Hexane	<0.010	0.060
			2,2,4- Trimethylpentane	<0.010	0.005
			Methyl chloride	0.010	0.030
October 5, 2010; October 6, 2010	3.75	LFL meter failure	Total VOC	0.550	0.170
			Methyl chloride	0.010	0.320
October 13, 2010	0.50	Overhead valve and operating gear box were misaligned*	Total VOC	0.550	0.130
			Methyl chloride	0.010	0.400
			Total VOC	0.550	0.060
October 29, 2010	0.23	Operator failed to verify overhead pressure*	2,2,4- Trimethylpentane	<0.010	<0.001
			Methyl chloride	0.010	0.110
			Total VOC	0.550	0.610
October 30, 2010	1.43	Bypass caused by plug in scrubber recirculation line	n-Hexane	<0.010	0.060
			2,2,4- Trimethylpentane	<0.010	0.004
			Total VOC	0.550	0.007
December 1, 2010	0.02	Motor failure caused by water in the electrical conduit	n-Hexane	<0.010	<0.001
			2,2,4- Trimethylpentane	<0.010	<0.001
			Total VOC	0.550	
*Indicates failure to properly maintain the control device					

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).”

On December 5, 2012, the Department issued to Respondent an Amended Notice of Potential Penalty (NOPP), Enforcement No. AE-PP-11-01173A, which was based upon the following findings of fact:

“The Department hereby amends Paragraphs A, B, D, and E of the aforementioned **NOTICE OF POTENTIAL PENALTY** to read as follows:

A. According to the Respondent’s 2010 First Semiannual Emissions Exceedance Report dated September 21, 2010, the Respondent reported the following unauthorized exceedances from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

Date of Release	Duration of Release (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/Hour)	Exceedance (Pounds In Excess)
May 5, 2010	0.08	Cooling tower “fill valve” stuck closed	Total VOC	0.550	0.035
			n-Hexane	<0.010	0.003
			2,2,4-Trimethylpentane	<0.010	0.0003
May 19, 2010	0.83	Worker dislodged a loose wire in UPS distribution panel*	Total VOC	0.550	0.63
			n-Hexane	<0.010	0.034
			2,2,4-Trimethylpentane	<0.010	0.003
			Methyl chloride	0.010	0.630
May 20, 2010	0.08	Error in instrument calibration*	Total VOC	0.550	0.020
			Methyl chloride	0.010	0.070
May 24, 2010	0.02	Partial plug in ED-606 scrubber	Total VOC	0.550	0.009
			n-Hexane	<0.010	0.0008
			2,2,4-Trimethylpentane	<0.010	0.0001
June 25, 2010	0.08	pH probe caused “hard” shutdown*	Total VOC	0.550	0.020
			Methyl chloride	0.010	0.070

**indicates failure to properly maintain the control device*

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

B. According to the Respondent's 2010 Annual Scrubber Report dated March 18, 2011, the Respondent reported the following exceedances of operational conditions:

Emission Point	Date	Permitted Flow Rate	Hours out of Range
Scrubber Vent HD 107 D/S North (EQT 0206)	August 26, 2010	≥8.00 gpm	0.17
Scrubber TM 104 (EQT 0069)	November 5-6, 2010	≥100.00 gpm	5.72

Each operation outside of the permitted minimum flow rate is a violation of LAC 33:III.501.C.4, Specific Requirements 155 and 194 of Air Permit No. 2520-00015-09, and La. R.S. 30:2057(A)(1) and 30:2057(A)(2).

D. According to the Respondent's 2010 Annual UB-1300 Thermal Oxidizer Temperature Report dated March 23, 2011, the Respondent reported the following exceedances of operational conditions from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

DATE	PERMITTED MINIMUM COMBUSTION CHAMBER TEMPERATURE	HOURS OUT OF RANGE
May 5, 2010	≥1600°F	1.00
May 9, 2010	≥1600°F	1.00
May 13, 2010	≥1600°F	1.00
May 28, 2010	≥1600°F	1.00
June 3, 2010	≥1600°F	1.00
June 6, 2010	≥1600°F	2.00

Each operation outside the permitted combustion chamber temperature is a violation of LAC 33:III.501.C.4, Specific Requirement 285 of Air Permit No. 2500-00015-09, La. R.S. 30:2057(A)(1) and 30:2057(A)(2).

E. According to the Respondent's 2010 Second Semiannual Emissions Exceedance Report dated March 25, 2011, the Respondent reported the following unauthorized exceedances from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

Date of Release	Duration of Release (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/Hour)	Exceedance (Pounds in excess)
July 11, 2010	0.50	Thermal Oxidizer shut down after operator opened drain valve.*	Total VOC	0.550	0.530
			n-Hexane	<0.010	0.021
			2,2,4-Trimethylpentane	<0.010	0.002
July 27, 2010	6.22	Thermal Oxidizer shut down due to low scrubber level.	Total VOC	0.550	4.690
			n-Hexane	<0.010	0.260
			2,2,4-Trimethylpentane	<0.010	0.020
October 2, 2010	0.71	Cleaning line pump lost suction causing thermal oxidizer to shut down.	Total VOC	0.550	0.54
			n-Hexane	<0.010	0.030
			2,2,4-Trimethylpentane	<0.010	0.002
			Methyl chloride	0.010	0.030
October 4, 2010	0.83	Cleaning line pump lost suction causing thermal	Total VOC	0.550	0.65
			n-Hexane	<0.010	0.03

Date of Release	Duration of Release (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/Hour)	Exceedance (Pounds in Excess)
		oxidizer to shut down.	2,2,4-Trimethylpentane	<0.010	0.003
October 5, 2010	0.13	LFL meter failure.	Total VOC	0.550	0.17
			Methyl chloride	0.010	0.24
October 6, 2010	3.62	LFL meter failure.	Methyl chloride	0.010	0.08
October 13, 2010	0.50	Overhead valve and operating gear box were misaligned.*	Total VOC	0.550	0.130
			Methyl chloride	0.010	0.400
October 29, 2010	0.23	Operator failed to verify overhead pressure.*	Total VOC	0.550	0.060
			2,2,4-Trimethylpentane	<0.010	<0.001
			Methyl chloride	0.010	0.110
October 30, 2010	1.43	Bypass caused by plug in scrubber recirculation line.	Total VOC	0.550	0.610
			n-Hexane	<0.010	0.060
			2,2,4-Trimethylpentane	<0.010	0.004
December 1, 2010	0.02	Motor failure caused by water in the electrical conduit.	Total VOC	0.550	0.007
			n-Hexane	<0.010	<0.001
			2,2,4-Trimethylpentane	<0.010	<0.001

*indicates failure to properly maintain the control device

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

The Department hereby adds Paragraphs F through J to the aforementioned **NOTICE OF POTENTIAL PENALTY** which shall read as follows:

F. According to the 2011 First Semiannual Emissions Exceedance Report dated October 14, 2012, the Respondent reported the following emissions exceedances:

Emission Point	Date of Release	Duration (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/hour)	Exceedance (Pounds in Excess)
Thermal Oxidizer UB-1300 (EQT 0050)	February 6, 2011	1.67	LFL meter hydrogen fuel line leak.	Total VOC	0.550	1.037
				n-Hexane	<0.010	0.070
				2,2,4-trimethylpentane	<0.010	0.035
Scrubber for SNCl ₄ Tank Vents (EQT 0140)	February 7, 2011	0.15	Loss of pump circulation due to plug in scrubber column tray while chlorinating TD-101 reactor.	Chlorine	0.40	2.22
Thermal Oxidizer UB-1300 (EQT 0050)	February 13, 2011	0.75	Scrubber flow lost due to elevated temperature.	Total VOC	0.550	0.587
				n-Hexane	<0.010	0.031
				2,2,4-trimethylpentane	<0.010	0.002
Thermal Oxidizer UB-1300 (EQT 0050)	February 14, 2011	0.25	Scrubber flow lost due to elevated temperature.	Total VOC	0.550	0.482
				Methyl chloride	0.010	0.200

Emission Point	Date of Release	Duration (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/hour)	Exceedance (Pounds in Excess)
Scrubber for SNCl ₄ Tank Vents (EQT 0140)	February 19, 2011	1.97	Circulation pump shutdown when a low-amp trip device activated.*	Chlorine	0.40	5.11
Thermal Oxidizer UB-1300 (EQT 0050)	February 23, 2011	1.28	Scrubber level instrument failed.	Total VOC	0.550	0.095
				Methyl chloride	0.010	0.138
Thermal Oxidizer UB-1300 (EQT 0050)	February 26, 2011	1.20	Scrubber level instrument failed.	Total VOC	0.550	0.189
				n-Hexane	<0.010	0.004
				2,2,4-trimethylpentane	<0.010	0.049
Thermal Oxidizer UB-1300 (EQT 0050)	February 26, 2011	1.05	Scrubber level instrument failed.	Total VOC	0.550	0.822
				n-Hexane	<0.010	0.044
				2,2,4-trimethylpentane	<0.010	0.003
Thermal Oxidizer UB-1300 (EQT 0050)	February 28, 2011	0.03	LFL Meter hydrogen fuel line leak.	Total VOC	0.550	0.014
				n-Hexane	<0.010	0.001
				2,2,4-trimethylpentane	<0.010	0.0001
Thermal Oxidizer UB-1300 (EQT 0050)	February 27, 2011	0.02	LFL meter hydrogen fuel line leak.	Total VOC	0.550	0.007
				n-Hexane	<0.010	0.001
				2,2,4-trimethylpentane	<0.010	0.0001
Thermal Oxidizer UB-1300 (EQT 0050)	March 11, 2011	2.87	Combustion chamber temperature element failure.*	Total VOC	0.550	2.24
				n-Hexane	<0.010	0.12
				2,2,4-trimethylpentane	<0.010	0.009
Thermal Oxidizer UB-1300 (EQT 0050)	March 12, 2011	0.13	High LFL to thermal oxidizer caused when operator was bleeding off a level instrument.*	Total VOC	0.550	0.11
				n-Hexane	<0.010	0.0050
				2,2,4-trimethylpentane	<0.010	0.0004
Thermal Oxidizer UB-1300 (EQT 0050)	May 9, 2011	1.0	LFL meter drifted negative and was not noticed by the operator.*	Total VOC	0.550	0.43
				n-Hexane	<0.010	0.04
				2,2,4-trimethylpentane	<0.010	0.003
Thermal Oxidizer UB-1300 (EQT 0050)	May 17, 2011	0.02	High LFL to thermal oxidizer caused by start-up of #1 deodorizer.*	Total VOC	0.550	0.014
				n-Hexane	<0.010	<0.001
				2,2,4-trimethylpentane	<0.010	<0.001

*Indicates failure to properly maintain the control device

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

G. According to the 2011 Annual Scrubber Report dated March 6, 2012, the Respondent reported the following exceedances of operational conditions:

Emission Point	Date	Permitted Flow Rate	Hours out of Range	Permitted pH	Hours out of Range
Scrubber TD139 (EQT 0070)	July 4, 2011	≥100 gpm	0.00	≥3.0	1.68
Scrubber for SNCl ₄ Tank Vents (EQT 140)	February 7, 2011	≥10 gpm	0.15	≥8.0	0.00
Scrubber for SNCl ₄ Tank Vents (EQT 140)	February 19, 2011	≥10 gpm	1.97	≥8.0	0.00
Scrubber for SNCl ₄ Tank Vents (EQT 140)	February 19, 2011	≥10 gpm	0.37	≥8.0	0.00
Scrubber TD143 (EQT 0072)	February 18-19, 2011	≥10 gpm	13.35	≥10.0	0.00
Scrubber TD143 (EQT 0072)	February 19-20, 2011	≥10 gpm	15.67	≥10.0	0.00
Scrubber for SNCl ₄ Tank Vents (EQT 140)	September 7, 2011	≥10 gpm	0.00	≥8.0	0.03

Each operation outside of the permitted minimum flow rate and/or minimum pH is a violation of LAC 33:III.501.C.4, Specific Requirements 200, 216, 227, and 229 of Air Permit No. 2520-00015-09, and La. R.S. 30:2057(A)(1) and 30:2057(A)(2).

H. According to the 2011 Annual Tin Unit Condenser Report dated March 6, 2012, the Respondent reported the following exceedances of operational conditions:

Emission Point	Date	Permitted Exit Gas Temperature	Hours out of Range
TD-112/114 Steam Jets (EQT 0300)	August 6, 2011	≤135°F	4.88
TD-112/114 Steam Jets (EQT 0300)	August 27, 2011	≤135°F	5.10
TD-112/114 Steam Jets (EQT 0300)	September 23, 2011	≤135°F	8.27

Each operation outside of the permitted exit gas temperature parameter is a violation of LAC 33:III.501.C.4, Specific Requirement 256 of Air Permit No. 2520-00015-09, and La. R.S. 30:2057(A)(1) and 30:2057(A)(2).

I. According to the 2011 Annual UB-1300 Thermal Oxidizer Temperature Report dated March 6, 2012, the Respondent reported the following exceedances of operational conditions from Thermal Oxidizer UB-1300 Control Device (EQT 0050):

DATE	PERMITTED MINIMUM COMBUSTION CHAMBER TEMPERATURE	HOURS OUT OF RANGE
January 4, 2011	≥1600°F	1.00
January 15, 2011	≥1600°F	1.00

Each operation outside the permitted combustion chamber temperature is a violation of LAC 33:III.501.C.4, Specific Requirement 285 of Air Permit No. 2500-00015-09, La. R.S. 30:2057(A)(1) and 30:2057(A)(2).

J. According to the 2011 Second Semiannual Emissions Exceedance Report dated March 8, 2012, the Respondent reported the following emissions exceedances:

Emission Point	Date of Release	Duration (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max Pounds/hour)	Exceedance (Pounds in Excess)				
Thermal Oxidizer UB-1300 (EQT 0050)	August 2, 2011	1.17	Motor winding on the Epoxy chill water pump shorted causing the 480 breaker to trip.	Total VOC	0.550	2.15				
				n-Hexane	<0.01	0.06				
				2,2,4-trimethylpentane	<0.01	0.004				
				Carbon Monoxide	0.30	0.036				
				Benzene	Not Authorized	0.0004				
				1,3-butadiene	Not Authorized	0.0009				
				Toluene	Not Authorized	0.0003				
Xylene	Not Authorized	0.00005								
TD-112/114 Steam Jets (EQT 0300)	August 6, 2011	4.88	The flame arrestor on the atmosphere vent was dirty, restricting the vent gasses and causing overhead temperature to increase.*	Total VOC	8.50	14.37750				
				Benzene	0.07	0.00331				
				Ethyl benzene	0.06	0.00029				
				n-Hexane	<0.01	0.02760				
				Isooctane	Not Authorized	0.05118				
				Toluene	0.04	0.00604				
TD-112/114 Steam Jets (EQT 0300)	August 27, 2011	5.10	Temperature exceedance due to boiling excess water overhead.	Total VOC	8.50	14.66				
				Benzene	0.07	0.0034				
				Ethyl benzene	0.06	0.0003				
				n-Hexane	<0.01	0.0281				
				Isooctane	Not Authorized	0.0522				
				Toluene	0.04	0.0062				
Scrubber for SNCl ₄ Tank Vents (EQT 140)	September 7, 2011	0.03	Overhead condenser liquid line was partially plugged causing pH to drop below 10.	Chlorine	0.40	0.47				
				Thermal Oxidizer UB-1300 (EQT 0050)	September 13, 2011	1.34	"Flame supervisor" instrument lost sensitivity and drifted low.	Total VOC	0.55	0.541
								n-Hexane	<0.01	0.048
								2,2,4-trimethylpentane	<0.01	0.004
								Methyl Chloride	0.01	0.133
								Total VOC	0.55	0.923
Thermal Oxidizer UB-1300 (EQT 0050)	September 14, 2011	1.23	"Flame supervisor" instrument lost sensitivity and drifted low.	n-Hexane	<0.01	0.050				
				2,2,4-trimethylpentane	<0.01	0.004				
				Total VOC	0.55	1.617				
Thermal Oxidizer UB-1300 (EQT 0050)	September 14, 2011	2.2	"Flame supervisor" instrument lost sensitivity and drifted low.	n-Hexane	<0.01	0.088				
				2,2,4-trimethylpentane	<0.01	0.006				
				Total VOC	0.55	3.327				
Thermal Oxidizer UB-1300 (EQT 0050)	September 15, 2011	4.25	"Flame supervisor" instrument lost sensitivity and drifted low.	n-Hexane	<0.01	0.178				
				2,2,4-trimethylpentane	<0.01	0.013				
				Total VOC	8.50	18.80				
TD-112/114 Steam Jets (EQT 0300)	September 23, 2011	8.27	Temperature exceedance due to boiling excess water overhead.	Benzene	0.07	0.0043				
				Ethyl benzene	0.06	0.0004				
				n-Hexane	<0.01	0.0361				

Emission Point	Date of Release	Duration (Hours)	Reported Cause of Release	Pollutant	Permitted Emissions (Max. Pounds/hour)	Exceedance (Pounds in Excess)
				Isooctane	Not Authorized	0.0669
				Toluene	0.04	0.0079
				Xylene	<0.01	0.0015
Thermal Oxidizer UB-1300 (EQT 0050)	October 16, 2011	0.33	Failure of dilution air vent, preventing proper air flow, causing Tin Unit to bypass thermal oxidizer due to high LFL readings.	Total VOC	0.55	0.11
				Methyl Chloride	0.10	0.28
				Total VOC	0.55	2.70
Thermal Oxidizer UB-1300 (EQT 0050)	December 1, 2011	3.45	Thermal oxidizer shut down due to failure of the scrubber differential pressure switch.	n-Hexane	<0.01	0.14
				2,2,4-trimethylpentane	<0.01	0.01
				Total VOC	0.55	0.013
Thermal Oxidizer UB-1300 (EQT 0050)	December 2, 2011	0.03	Tin Unit bypassed thermal oxidizer on a safety interlock when the LFL meters drifted negative.	Methyl Chloride	0.10	0.03
				Total VOC	0.55	0.004
				Methyl Chloride	0.01	0.013
Thermal Oxidizer UB-1300 (EQT 0050)	December 13, 2011	0.02	Inadequate dilution air flow, resulting in increased air flow from process scrubbers, which caused unexpected LFL spikes in the Tin Unit vent system.	Total VOC	0.55	0.11
				n-Hexane	<0.01	0.0005
				2,2,4-trimethylpentane	<0.01	0.001
				Benzene	Not Authorized	0.00009
				Ethyl benzene	Not Authorized	0.00001
				Toluene	Not Authorized	0.0002
				Xylene	Not Authorized	0.00003
				Total VOC	0.55	1.424
				Methyl Chloride	0.01	0.198
Thermal Oxidizer UB-1300 (EQT 0050)	December 21, 2011	0.22	Inadequate dilution air flow, resulting in increased air flow from process scrubbers, which caused unexpected LFL spikes in the Tin Unit vent system.	Total VOC	0.55	0.010
				Methyl Chloride	0.01	0.280
				Total VOC	0.55	0.010
Thermal Oxidizer UB-1300 (EQT 0050)	December 26, 2011	0.03	Inadequate dilution air flow, resulting in increased air flow from process scrubbers, which caused unexpected LFL spikes in the Tin Unit vent system.	Methyl Chloride	0.01	0.280

Each failure to properly maintain the control device is a violation of LAC 33:III.905, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each exceedance of the maximum pounds per hour permit limit is a violation of LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2). Each unauthorized emission is a violation of

LAC 33:III.501.C.4, Air Permit No. 2520-00015-09, La. R.S. 30:2057(A)(1), and 30:2057(A)(2).

The Department incorporates all of the remainder of the original **NOTICE OF POTENTIAL PENALTY, ENFORCEMENT TRACKING NO. AE-PP-11-01173** and **AGENCY INTEREST NO. 2706** as if reiterated herein.”

III

Respondent denies it committed any violations or that it is liable for any fines, forfeitures and/or penalties.

IV

Nonetheless, Respondent, without making any admission of liability under state or federal statute or regulation, agrees to pay, and the Department agrees to accept, a payment in the amount of THIRTY THOUSAND AND NO/100 DOLLARS (\$30,000.00), of which One Thousand Seven Hundred and Ninety-Seven and 41/100 Dollars (\$1,797.41) represents the Department’s enforcement costs, in settlement of the claims set forth in this agreement. The total amount of money expended by Respondent on cash payments to the Department as described above, shall be considered a civil penalty for tax purposes, as required by La. R.S. 30:2050.7(E)(1).

V

Respondent further agrees that the Department may consider the permit record(s), the NOPPs and this Settlement for the purpose of determining compliance history in connection with any future enforcement or permitting action by the Department against Respondent, and in any such action Respondent shall be estopped from objecting to the above-referenced documents being considered as proving the violations alleged herein for the sole purpose of determining Respondent's compliance history.

VI

This agreement shall be considered a final order of the Secretary for all purposes, including, but not limited to, enforcement under La. R.S. 30:2025(G)(2), and Respondent hereby waives any right to administrative or judicial review of the terms of this agreement, except such review as may be required for interpretation of this agreement in any action by the Department to enforce this agreement.

VII

This settlement is being made in the interest of settling the state's claims and avoiding for both parties the expense and effort involved in litigation or an adjudicatory hearing. In agreeing to the compromise and settlement, the Department considered the factors for issuing civil penalties set forth in La. R. S. 30:2025(E) of the Act.

VIII

As required by law, the Department has submitted this Settlement Agreement to the Louisiana Attorney General for approval or rejection. The Attorney General's concurrence is appended to this Settlement Agreement.

IX

The Respondent has caused a public notice advertisement to be placed in the official journal of the parish governing authority in St. Charles Parish, Louisiana. The advertisement, in form, wording, and size approved by the Department, announced the availability of this settlement for public view and comment and the opportunity for a public hearing. Respondent has submitted an original proof-of-publication affidavit and an original public notice to the Department and, as of the date this Settlement is executed on behalf of the Department, more than forty-five (45) days have elapsed since publication of the notice.

X

Payment is to be made within ten (10) days from notice of the Secretary's signature. If payment is not received within that time, this Agreement is voidable at the option of the Department. Payments are to be made by check, payable to the Department of Environmental Quality, and mailed or delivered to the attention of Accountant Administrator, Financial Services Division, Department of Environmental Quality, Post Office Box 4303, Baton Rouge, Louisiana, 70821-4303. Each payment shall be accompanied by a completed Settlement Payment Form (Exhibit A).

XI

In consideration of the above, any claims for penalties are hereby compromised and settled in accordance with the terms of this Settlement.

XII

Each undersigned representative of the parties certifies that he or she is fully authorized to execute this Settlement Agreement on behalf of his or her respective party, and to legally bind such party to its terms and conditions.

GALATA CHEMICALS, LLC

BY: *Diane B. Corneau*
(Signature)

Diane B. Corneau
(Printed)

TITLE: Director of Operations

THUS DONE AND SIGNED in duplicate original before me this 25th day of March, 20 15, at LAFAYETTE, LOUISIANA.

Greg L. Johnson
NOTARY PUBLIC (ID # GREG L. JOHNSON)
Notary Public

Parish of Orleans, State of Louisiana
Notary Identification #55184, LASB # 24477
My Commission is issued for Life
(stamped or printed)

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
Peggy M. Hatch Secretary

BY: *D. Chance McNeely*
D. Chance McNeely, Assistant Secretary
Office of Environmental Compliance

THUS DONE AND SIGNED in duplicate original before me this 28th day of May, 20 15, at Baton Rouge, Louisiana.

Perry Theriot
NOTARY PUBLIC (ID # 19181)

Perry Theriot
(stamped or printed)

Approved: *D. Chance McNeely*
D. Chance McNeely, Assistant Secretary