REPUBLIC SERVICES
28470 Citrin Drive Romulus, MI 48174
o 734.946.1000 republicservices.com

August 10th, 2023

Mr. Andrew Greenhagen
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: RIES Monthly Report

Dear Mr. Andrew Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the hundred and fourteenth Report ("MR") in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011). RIES is providing all the attached information in the same sequence as required by both subject permits, i.e. Part II. D.1 (a-i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

RIES accepted F039 waste in July of 2023 so as stated on page A-3 of 3 of RIES's two EPA UIC permits an analysis is required and is included in this report.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my supervision and interaction with the persons who manage and operate the system, and those persons responsible for the collection of the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

We trust that you find this report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,

JCBt

John C. Barta

cc: Tabetha Peebles (Republic Services)
John Frost (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2023

CURRENT REPORTING MONTH July

Date (month, year) of the first injection into either well at the Citrin Road Facility

November 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	552,620	0	552,620
Since facility first injected			55,926,529
MI-163-1W-C011, Well #2-12			
Current Month	830,940	0	830,940
Since facility first injected			37,284,260
		Lifetime Combined	93,210,789

Conversion factors

365.25 days per year ÷ 12 months per year = 30.4375 days per month

30.4375 days per month × 1440 minutes per day = 43,830 minutes per month

Calculations

Whole number of months of injection 115

115 lifetime number of months of injection × 43,830 minutes/month

= 4,996,620 minutes of injection

Lifetime combined injected volume 93,210,789 ÷ 4,996,620 minutes of injection

= 18.65 gpm average injection rate

WELL 1 DATA

REPUBLIC SERVICES

Injection Well 1, July 2023

	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
7/1/2023	162.8	930.5	17.7	17.8	814.0	1,149.3	2.1	2.3	0.0	51.1	217.6	652.4
7/2/2023	148.4	163.1	17.7	17.7	793.5	814.3	2.3	2.3	0.0	0.0	644.9	651.5
7/3/2023	140.2	148.7	17.6	17.7	778.6	793.8	2.3	2.3	0.0	0.0	638.0	645.5
7/4/2023	134.5	140.3	17.7	17.7	766.4	779.0	2.3	2.4	0.0	0.0	631.7	638.8
7/5/2023	132.7	940.5	17.7	17.8	762.6	1,337.5	1.8	8.4	0.0	54.9	238.8	725.2
7/6/2023	140.9	939.7	17.7	17.8	811.9	1,331.4	1.8	7.7	0.0	64.2	220.1	702.4
7/7/2023	192.0	940.2	17.7	17.8	812.3	1,318.6	2.0	8.1	0.0	61.8	183.7	662.6
7/8/2023	139.6	285.5	17.7	17.7	780.3	948.3	7.9	8.1	0.0	0.0	640.2	696.2
7/9/2023	124.8	139.8	17.6	17.7	755.4	780.7	7.9	7.9	0.0	0.0	630.3	640.9
7/10/2023	121.8	940.2	17.6	17.8	750.0	1,267.8	5.7	8.8	0.0	51.4	215.2	631.0
7/11/2023	140.3	940.0	17.7	17.8	792.6	1311.0	2.0	8.0	0.0	55.9	241.2	664.1
7/12/2023	156.7	940.0	17.7	17.8	823.1	1,324.8	2.0	7.6	0.0	55.9	273.0	696.0
7/13/2023	169.7	941.2	17.7	17.7	831.8	1,298.8	1.9	7.7	0.0	64.2	252.6	681.8
7/14/2023	162.5	955.0	17.6	17.7	242.6	1,291.9	6.2	8.3	0.0	76.3	251.0	1061.2
7/15/2023	114.0	938.8	17.6	17.7	744.2	1,161.3	0.6	6.9	0.0	56.2	167.9	656.6
7/16/2023	101.3	114.3	17.6	17.7	712.1	744.4	1.7	1.9	0.0	0.0	610.5	630.3
7/17/2023	99.2	940.1	16.8	17.7	706.9	1513.6	1.3	7.8	0.0	73.2	167.8	815.2
7/18/2023	164.3	941.1	16.8	16.9	994.8	1448.9	1.9	7.0	0.0	55.9	443.8	882.7
7/19/2023	179.6	941.9	16.8	16.9	988.9	1,508.4	4.7	8.1	0.0	66.6	430.9	854.3
7/20/2023	162.4	941.5	16.8	16.9	987.3	1,480.3	5.0	7.7	0.0	59.2	426.4	855.0
7/21/2023	144.7	939.8	16.8	16.9	965.5	1,458.6	2.4	8.2	0.0	60.6	416.8	860.0
7/22/2023	166.9	941.4	16.8	16.9	914.1	1,275.5	5.1	7.9	0.0	83.5	314.2	821.6
7/23/2023	163.8	187.5	16.8	16.9	878.1	914.4	6.6	7.0	0.0	0.0	714.0	727.3
7/24/2023	159.5	941.2	16.8	16.9	870.0	1,451.2	2.5	7.8	0.0	72.2	305.7	714.6
7/25/2023	172.4	940.0	16.8	16.9	955.9	1414.1	2.1	7.8	0.0	55.0	377.1	822.4
7/26/2023	179.2	941.5	16.8	16.9	945.8	1,424.2	2.0	7.1	0.0	59.5	378.8	796.3
7/27/2023	179.7	939.8	16.8	16.9	936.1	1,312.9	1.7	7.5	0.0	46.2	272.1	785.5
7/28/2023	205.9	940.1	16.8	16.9	884.4	1,383.5	1.5	7.4	0.0	64.1	261.0	679.1
7/29/2023	169.4	270.9	16.8	16.9	846.7	934.7	4.9	5.8	0.0	0.0	663.8	692.9
7/30/2023	153.6	169.6	16.7	16.8	819.8	846.5	4.4	4.9	0.0	0.0	666.1	677.3
7/31/2023	148.5	940.2	16.7	16.8	810.4	1368.6	1.7	8.9	0.0	81.7	275.5	686.9

Circle Chart Index

Republic Industrial Energy Solutions, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 1 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 1 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 1 Annulus Tank Level (chart value x 0)

Chart Recorder #2

Channel #1

Blue Pen — Well 2 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 2 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 2 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 2 Annulus Tank Level (chart value x 0)

Chart Recorder #3

Channel #1

Blue Pen — Injection pH Well 1 & 2 (chart value 3.3)

Channel #2

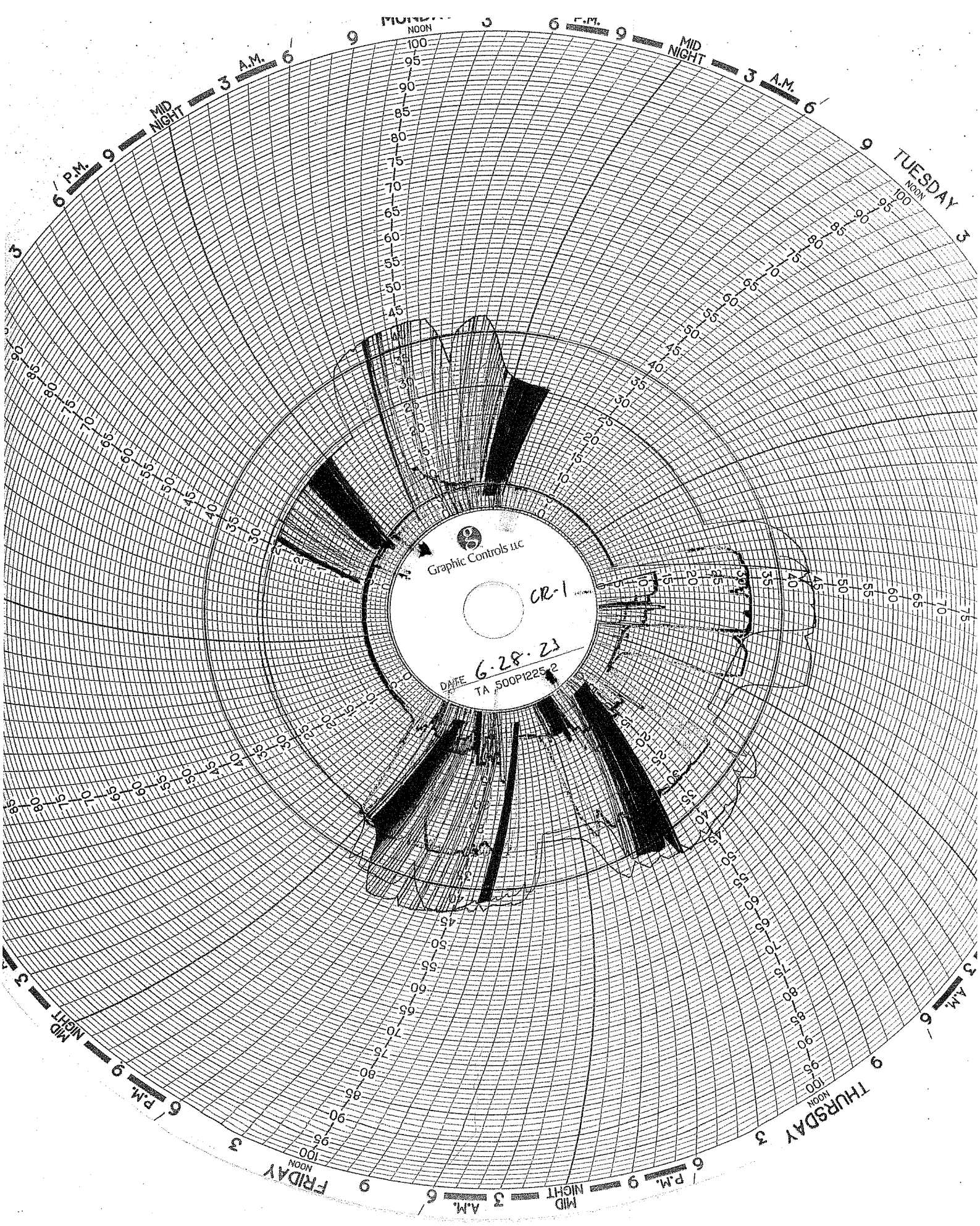
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

Green Pen — Well 2 Monthly Volume (chart value x 100,000)

channel *tm*

Black Pen — Temperature (chart value x 0)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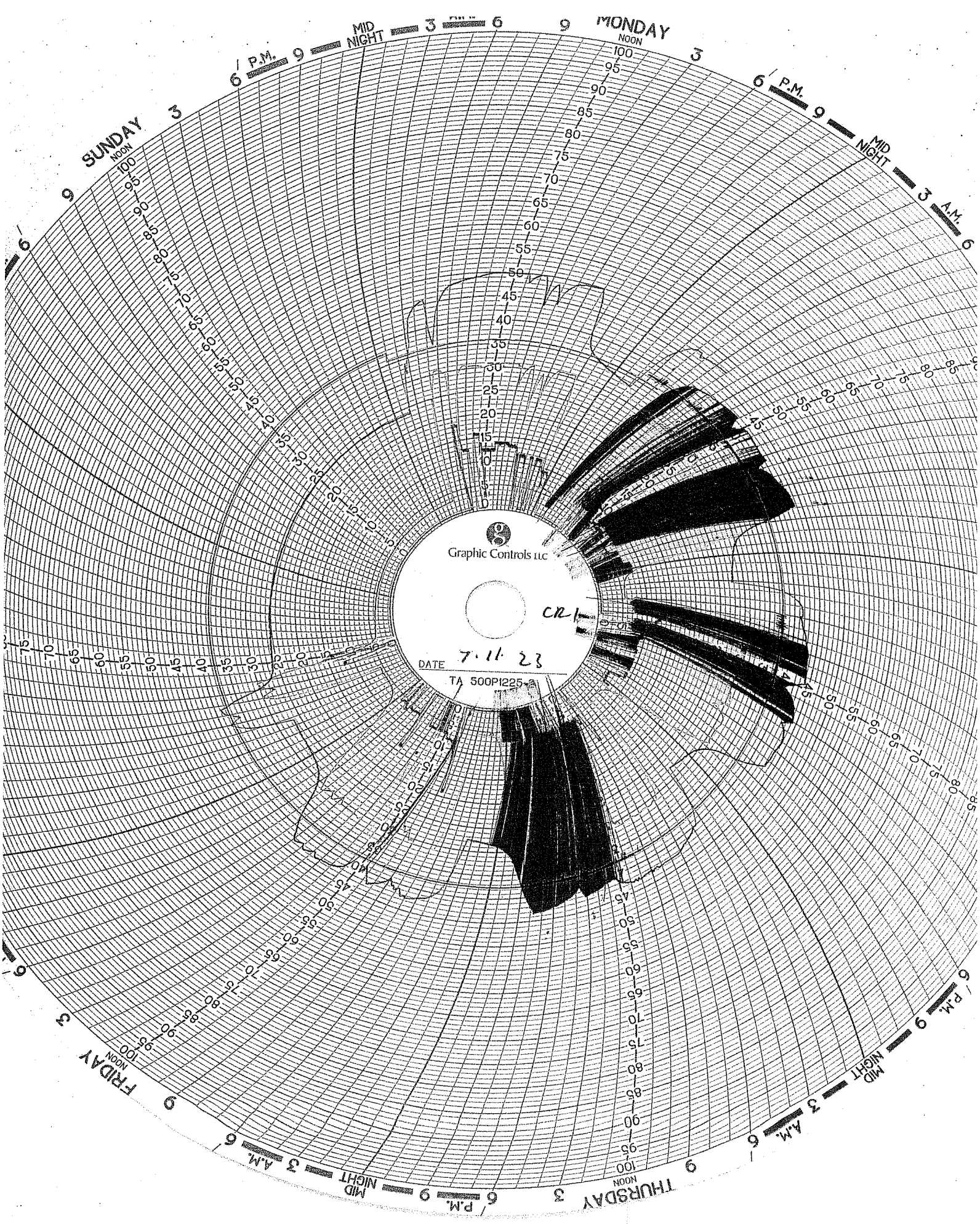
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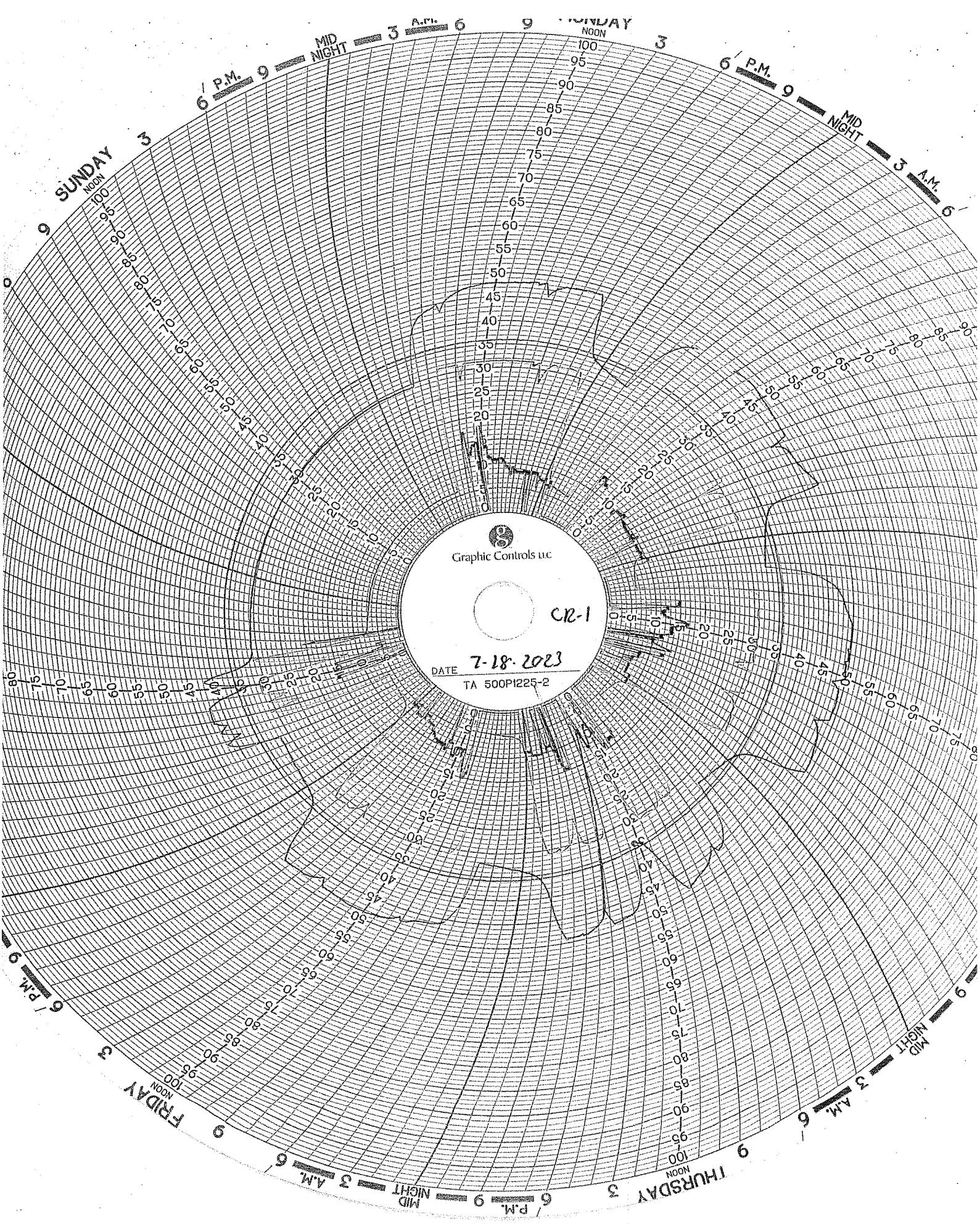
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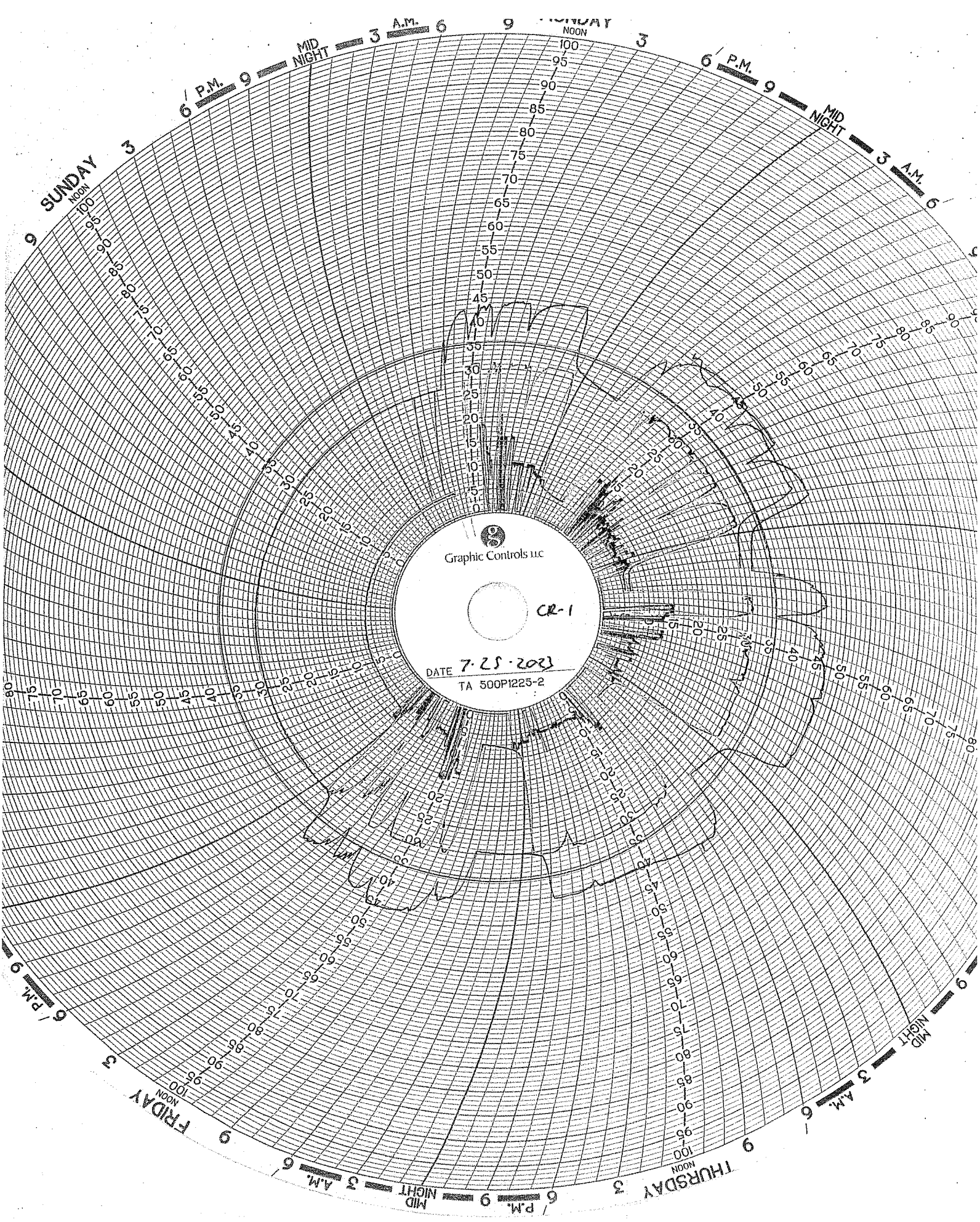
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WELL 2 DATA

REPUBLIC SERVICES

Injection Well 2, July 2023												
	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
7/1/2023	161.8	622.7	17.7	17.8	812.9	1,012.2	2.1	2.3	0.0	0.0	389.5	652.8
7/2/2023	147.8	162.1	17.7	17.7	792.8	813.5	2.3	2.3	0.0	0.0	644.6	651.7
7/3/2023	139.9	148.1	17.6	17.7	777.7	793.1	2.3	2.3	0.0	0.0	637.7	645.3
7/4/2023	134.2	140.2	17.7	17.7	765.7	778.6	2.3	2.4	0.0	0.0	631.2	638.8
7/5/2023	132.3	942.5	17.7	17.8	762.5	1,337.7	1.8	8.7	0.0	55.3	237.3	725.7
7/6/2023	138.1	940.5	17.7	17.8	811.9	1,331.6	1.9	7.7	0.0	64.7	217.6	695.2
7/7/2023	192.0	941.5	17.7	17.8	812.3	1,318.7	2.0	8.1	0.0	62.1	184.6	695.1
7/8/2023	138.6	201.9	17.6	17.7	778.4	896.9	7.9	8.1	0.0	0.0	639.5	696.5
7/9/2023	124.2	138.9	17.6	17.7	754.4	779.1	7.9	7.9	0.0	0.0	629.9	640.5
7/10/2023	119.4	943.4	17.6	17.8	750.0	1,268.0	5.7	8.8	0.0	51.8	213.3	630.9
7/11/2023	138.8	940.8	17.7	17.8	792.4	1,311.5	2.0	8.0	0.0	56.7	240.5	664.4
7/12/2023	149.9	943.2	17.7	17.8	822.9	1,325.2	2.0	7.6	0.0	56.6	273.5	696.5
7/13/2023	168.7	941.2	17.7	17.7	831.8	1,298.8	1.9	7.7	0.0	64.9	252.3	681.6
7/14/2023	158.8	945.9	17.6	17.7	497.7	1,292.0	6.1	8.4	0.0	76.7	248.3	962.6
7/15/2023	113.0	942.2	17.6	17.7	741.8	1,160.4	0.5	7.3	0.0	56.6	164.5	656.9
7/16/2023	100.9	152.9	17.6	17.7	711.0	1,261.2	1.6	7.3	0.0	0.0	586.1	1,149.0
7/17/2023	97.4	943.5	16.8	17.7	706.8	1,514.0	1.3	7.8	0.0	74.0	166.9	882.5
7/18/2023	163.6	944.8	16.8	17.7	994.7	1,449.3	1.9	7.3	0.0	56.0	125.8	883.5
7/19/2023	179.3	944.5	16.8	16.9	988.7	1,508.4	6.2	8.1	0.0	67.2	427.8	1058.1
7/20/2023	161.8	942.6	16.8	17.7	987.2	1,480.4	5.0	7.7	0.0	59.5	332.4	855.3
7/21/2023	144.6	940.1	16.8	16.9	965.1	1,458.8	2.3	8.2	0.0	60.6	413.7	860.7
7/22/2023	166.7	941.4	16.8	16.9	912.3	1,439.4	5.5	7.9	0.0	83.5	314.3	1,246.2
7/23/2023	163.1	192.4	16.8	16.9	876.9	912.4	6.3	7.0	0.0	0.0	713.6	727.0
7/24/2023	156.7	942.4	16.8	16.9	870.1	1,451.4	2.5	7.8	0.0	72.6	304.3	791.2
7/25/2023	167.7	944.8	16.8	16.9	955.9	1,414.5	2.1	7.8	0.0	55.5	375.7	822.5
7/26/2023	178.2	944.5	16.8	16.9	945.3	1,439.4	2.0	7.1	0.0	60.2	381.6	1234.2
7/27/2023	177.9	941.9	16.8	17.2	915.2	1,456.0	1.7	7.5	0.0	46.5	267.1	815.5
7/28/2023	203.4	942.2	16.8	16.9	884.3	1,383.6	1.5	7.4	0.0	64.7	261.5	746.6
7/29/2023	168.4	215.6	16.8	16.9	845.0	907.2	4.9	5.7	0.0	0.0	676.3	692.8
7/30/2023	153.0	168.6	16.7	16.8	819.0	845.3	4.4	4.9	0.0	0.0	665.7	677.0
7/31/2023	147.7	940.8	16.7	16.8	810.5	1369.0	1.7	8.9	0.0	82.2	275.6	767.4

Circle Chart Index

Republic Industrial Energy Solutions, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 1 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 1 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 1 Annulus Tank Level (chart value x 0)

Chart Recorder #2

Channel #1

Blue Pen — Well 2 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 2 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 2 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 2 Annulus Tank Level (chart value x 0)

Chart Recorder #3

Channel #1

Blue Pen — Injection pH Well 1 & 2 (chart value 3.3)

Channel #2

Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

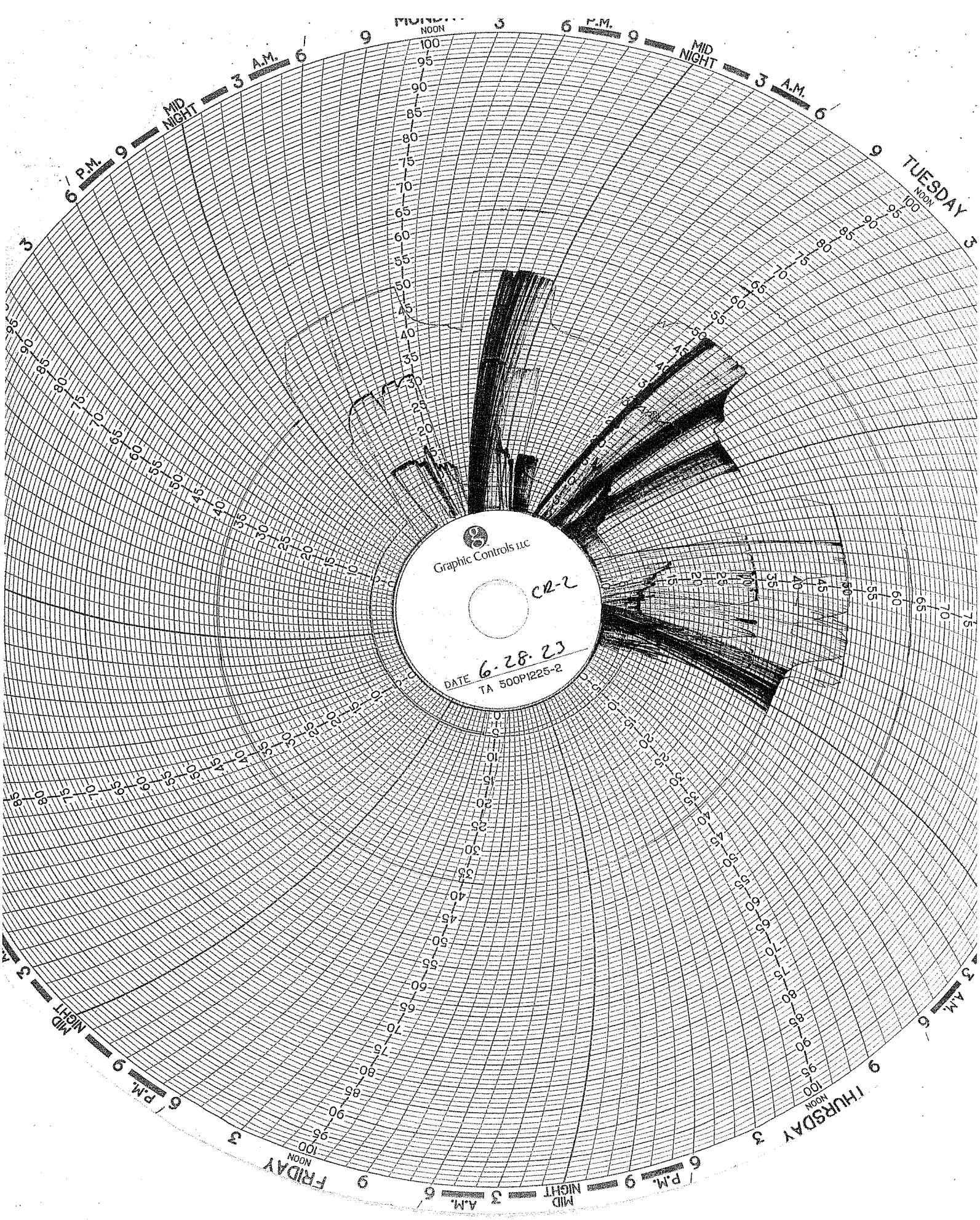
Green Pen — Well 2 Monthly Volume (chart value x 100,000)

channel *tm*

Black Pen — Temperature (chart value x 0)

Data Description

For the month of July both CR2 and CR3 had weeks where the chart paper wasn't seated entirely and resulted in not recording the entire week. Communication on the topic and familiarization with these new chart recorders have been introduced to the operators to mitigate this issue moving forward.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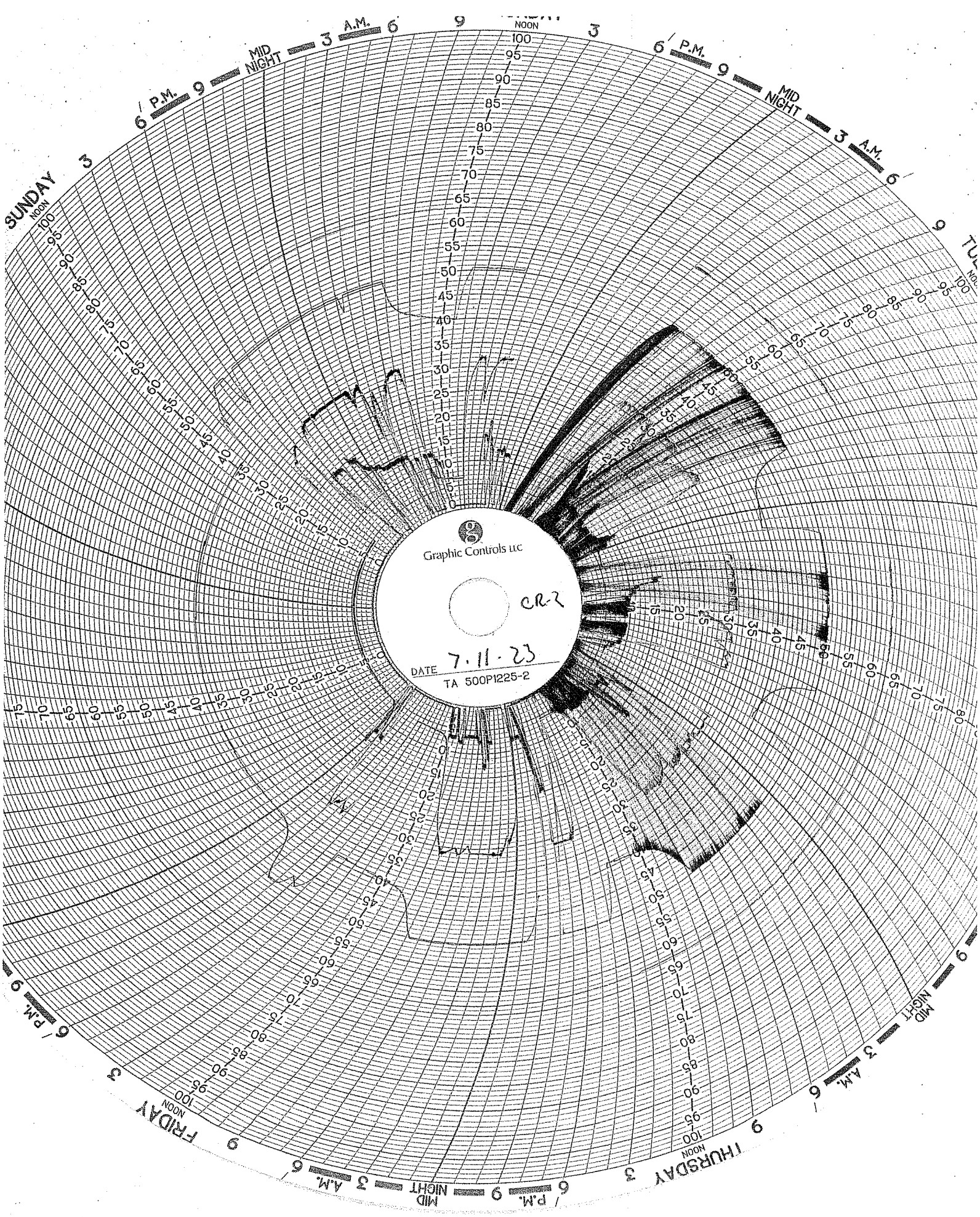
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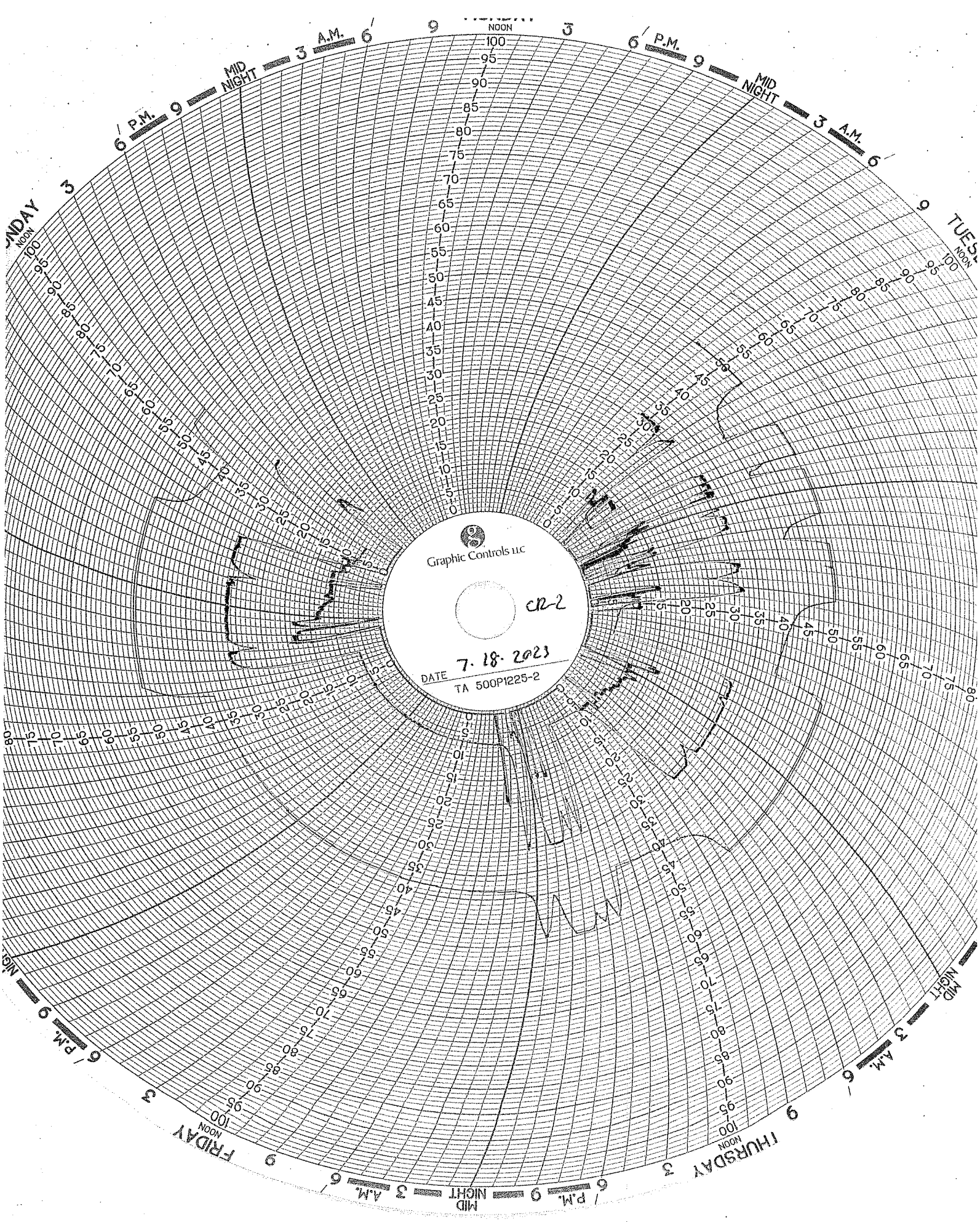
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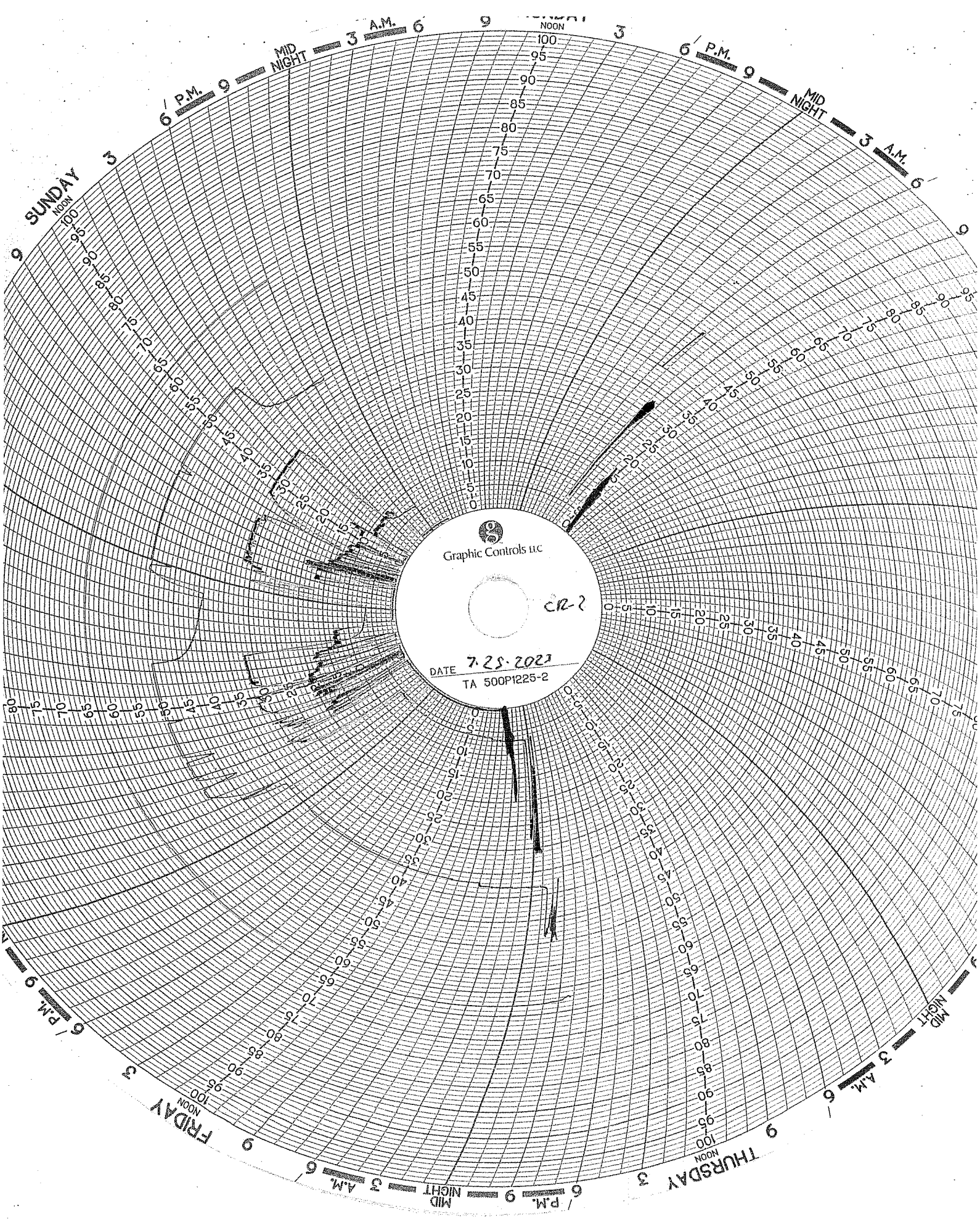
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Circle Chart Index

Republic Industrial Energy Solutions, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 1 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 1 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 1 Annulus Tank Level (chart value x 0)

Chart Recorder #2

Channel #1

Blue Pen — Well 2 Injection Pressure (chart value x 30)

Channel #2

Red Pen — Well 2 Annulus Pressure (chart value x 30)

Channel #3

Green Pen — Well 2 Flow Rate (chart value x 4)

Channel #4

Black Pen — Well 2 Annulus Tank Level (chart value x 0)

Chart Recorder #3

Channel #1

Blue Pen — Injection pH Well 1 & 2 (chart value 3.3)

Channel #2

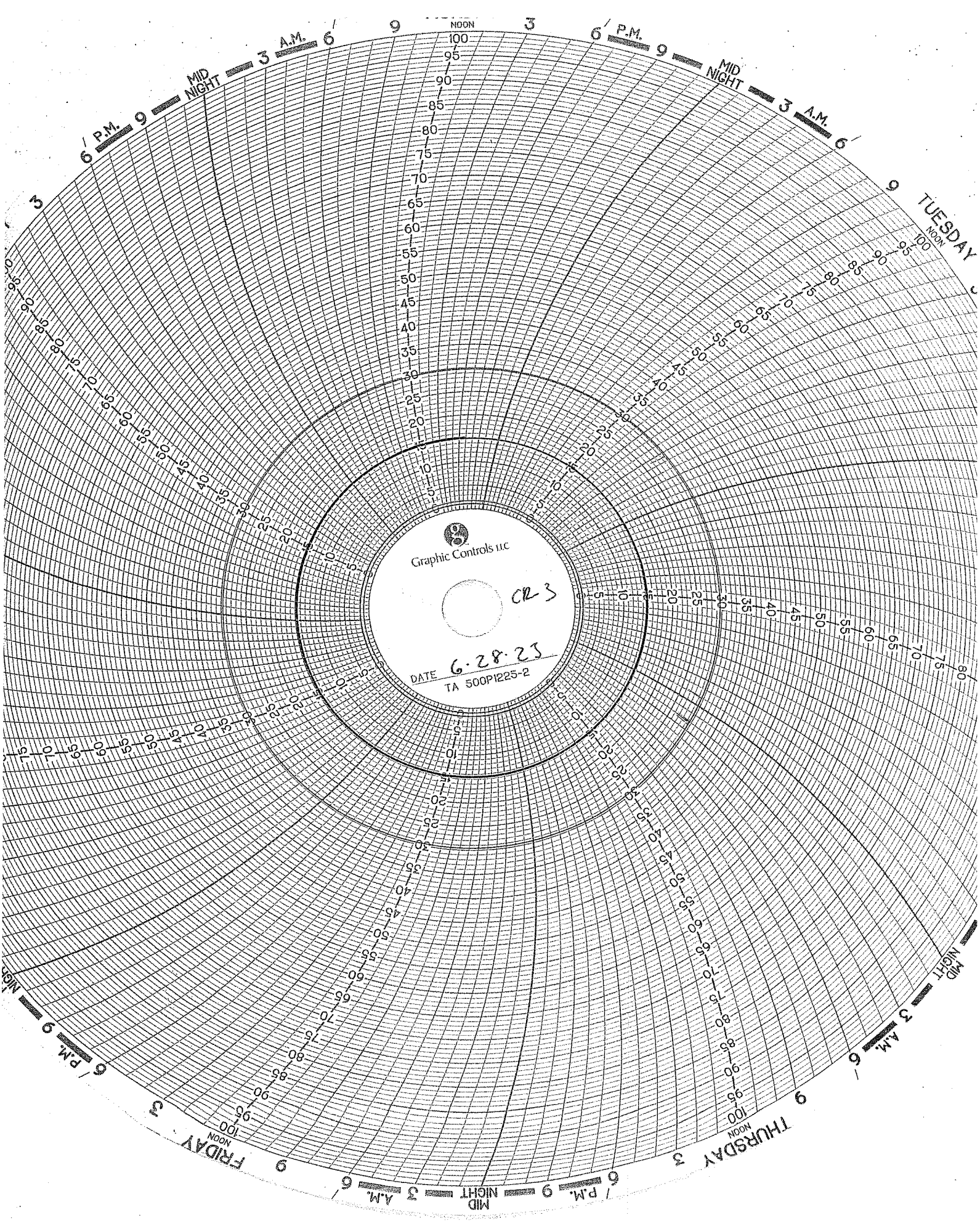
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

Green Pen — Well 2 Monthly Volume (chart value x 100,000)

channel *tm*

Black Pen — Temperature (chart value x 0)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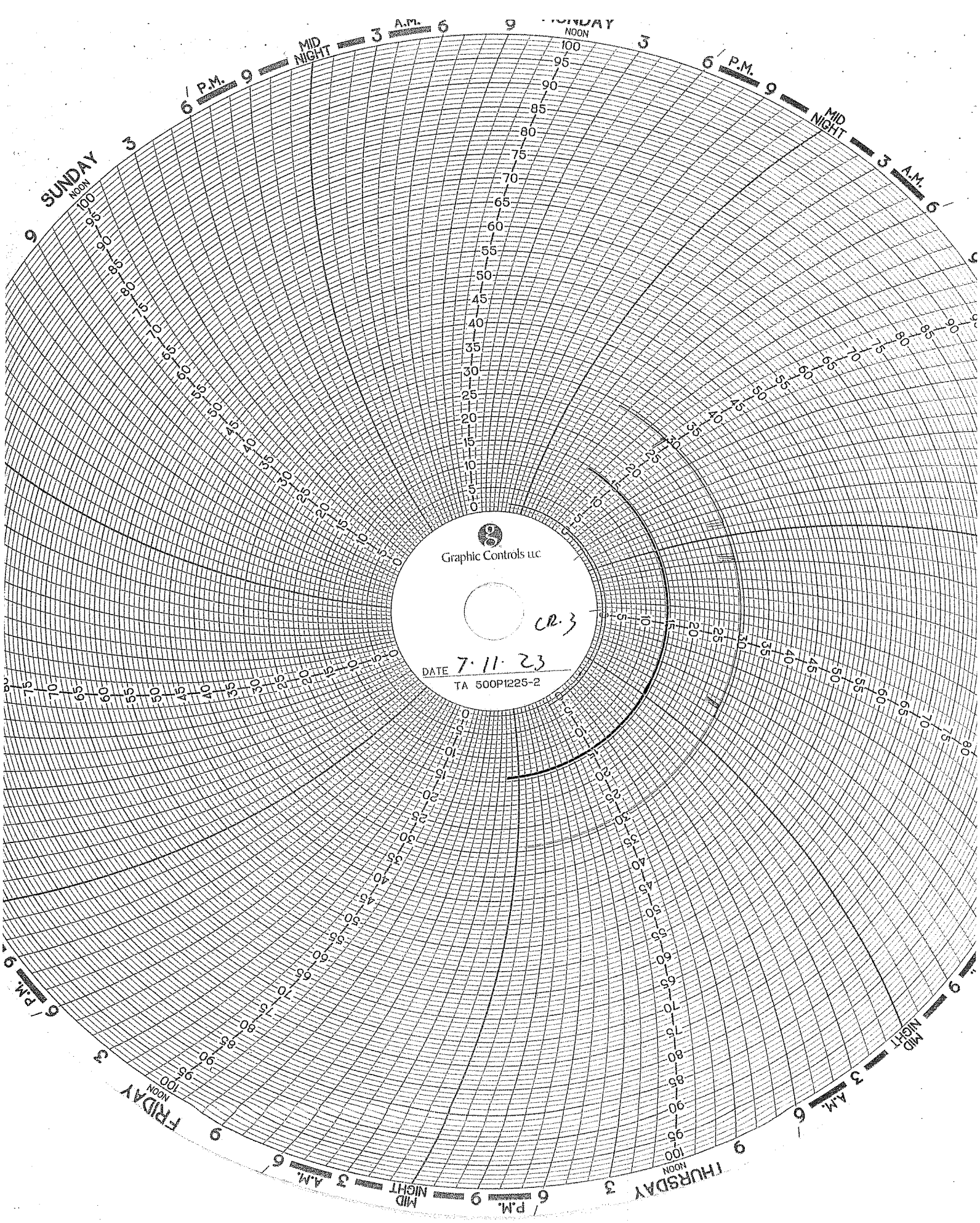
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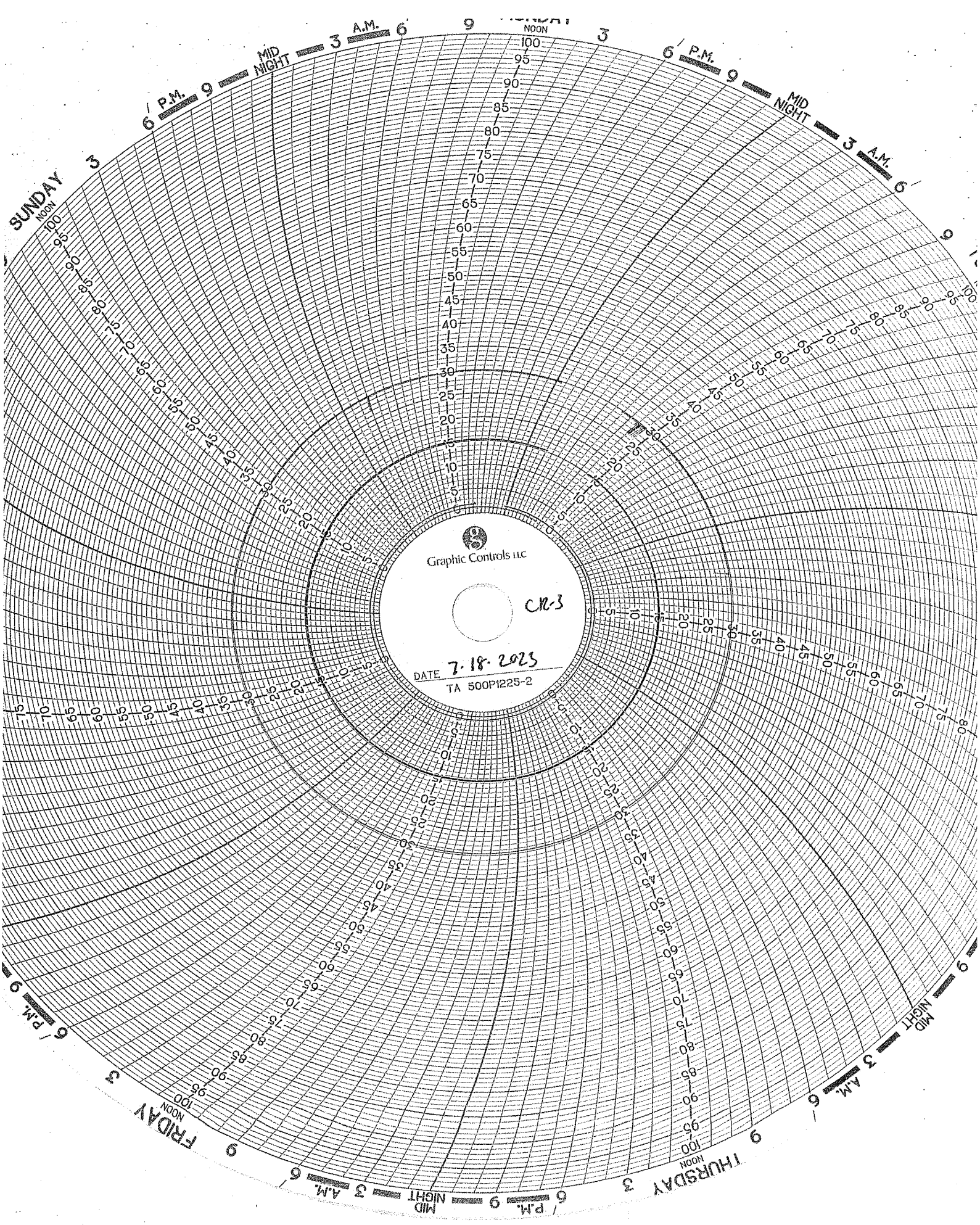
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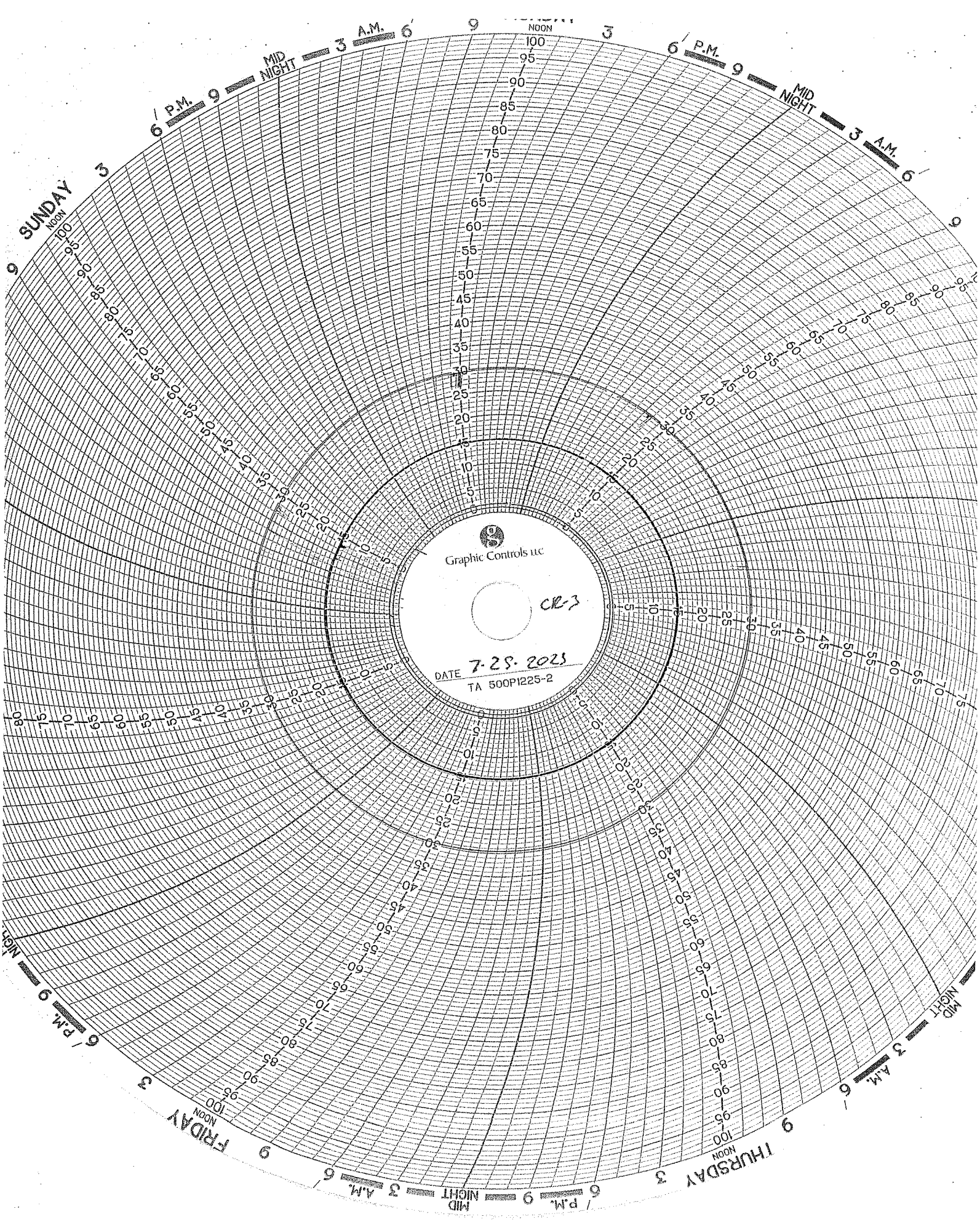
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CORROSION MONITORING

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

July, 2023

Fiberglass Coupon

The coupon is black in color with a semi-smooth texture on both sides. Its cut edges appear sanded. The coupon is free of cracks, pitting, swelling, blemishes, and corrosion. There is no obvious effect on this coupon since last month. The coupon has apparently been dyed black by received wastestreams.

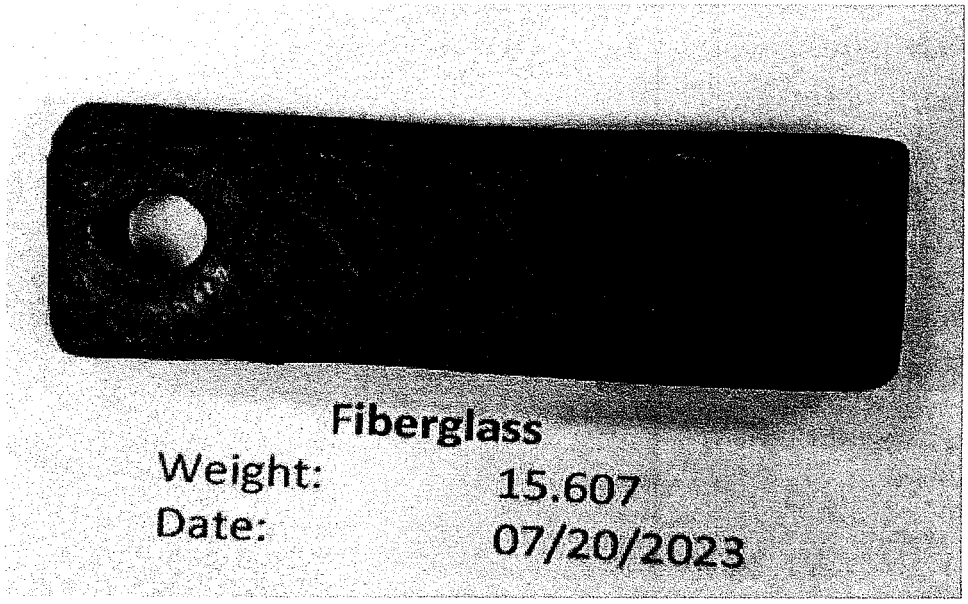
Hastelloy Coupon

This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There is no effect to this coupon.

Stainless Steel Coupon

This coupon is identified as 316L / C1563. The coupon is silver in color with a lightly sandblasted texture. It is clean and has several dozen small pits on both sides of the coupon. Near the bottom of the coupon there are approximately two areas with the dimensions of 1/8 inch x 1/16 of corrosion.

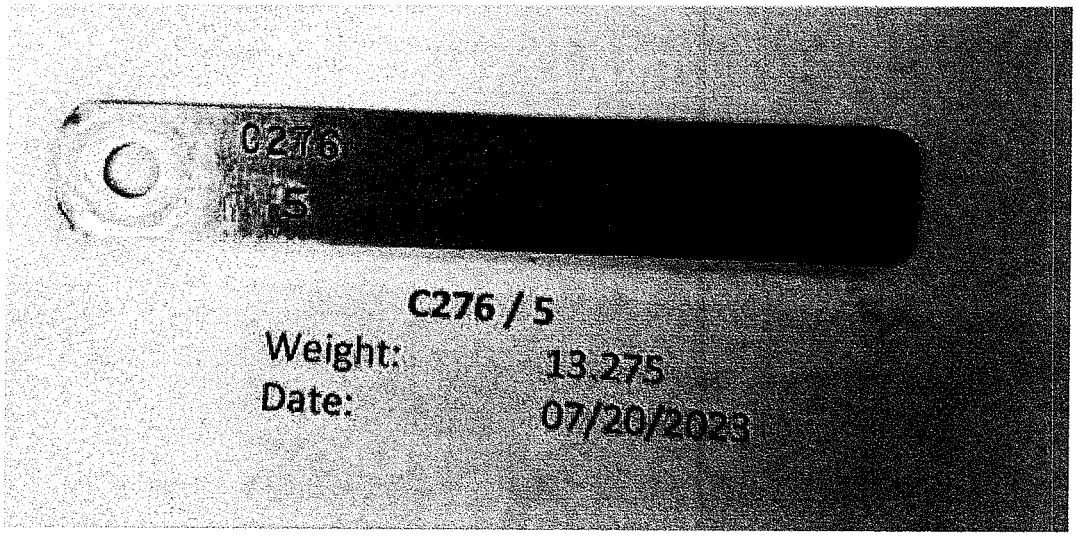
There is a slight effect to this coupon.



Fiberglass

Weight: 15.607

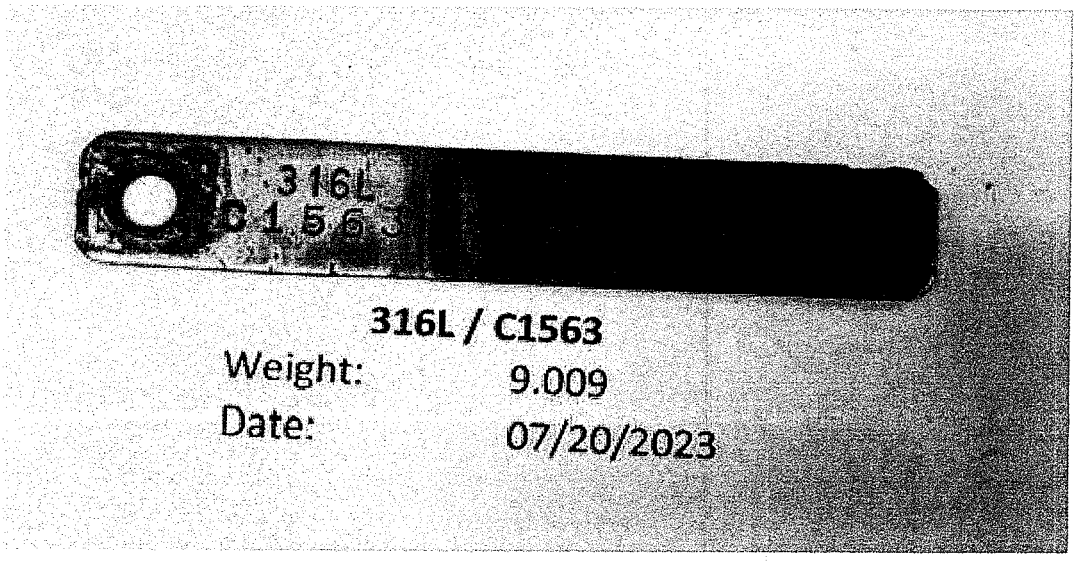
Date: 07/20/2023



C276 / 5

Weight: 13.275

Date: 07/20/2023



316L / C1563

Weight: 9.009

Date: 07/20/2023

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	New hastelloy coupon
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	New stainless steel coupon
8/3/2016	13.326 g	10.529 g	6.743 g	
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
6/12/2017	13.323 g	7.357 g	6.689 g	
7/5/2017	13.323 g	7.355 g	6.689 g	
8/30/2017	13.324 g	7.353 g	18.105 g	New Fiberglass coupon
9/28/2017	13.325 g	7.352 g	18.060 g	
10/11/2017	13.324 g	7.350 g	18.038 g	
11/16/2017	13.325 g	7.363 g	18.047 g	
12/12/2017	13.326 g	7.308 g	18.307 g	

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
1/29/2018	13.326 g	10.930 g	18.027 g	New stainless steel coupon
2/9/2018	13.325 g	10.932 g	18.044 g	
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	
5/17/2018	13.325 g	10.858 g	18.037 g	
6/20/2018	13.325 g	10.855 g	18.029 g	
7/12/2018	13.326 g	10.852 g	18.032 g	
8/21/2018	13.326 g	10.854 g	18.031 g	
9/14/2018	13.326 g	10.852 g	18.036 g	
10/10/2018	13.326 g	10.851 g	18.031 g	
11/20/2018	13.326 g	10.853 g	18.032 g	
12/11/2018	13.326 g	10.852 g	18.033 g	
1/14/2019	13.326 g	10.852 g	18.033 g	
2/20/2019	13.326 g	10.850 g	18.033 g	
3/15/2019	13.326 g	10.850 g	18.033 g	
4/10/2019	13.326 g	10.848 g	18.031 g	
5/17/2019	13.326 g	10.849 g	18.036 g	
6/5/2019	13.326 g	10.848 g	18.031 g	
7/8/2019	13.326 g	10.845 g	18.032 g	
8/12/2019	13.326 g	10.845 g	18.032 g	
9/8/2019	13.326 g	10.842 g	18.029 g	
10/17/2019	13.326 g	10.842 g	18.030 g	
11/20/2019	13.326 g	10.842 g	18.030 g	
12/11/2019	13.326 g	10.842 g	18.030 g	
1/16/2020	13.326 g	10.840 g	18.033 g	
2/6/2020	13.326 g	10.836 g	18.034 g	
3/3/9/20	13.326 g	10.842 g	18.034 g	Well 1 workover new well
4/9/2020	13.328 g	10.839 g	18.037 g	
5/12/2020	13.322 g	10.830 g	18.035 g	
6/16/2020	13.316 g	10.771 g	18.009 g	
7/16/2020	13.308 g	10.560 g	17.843 g	
8/25/2020	13.310 g	10.214 g	17.773 g	
9/24/2020	13.289 g	9.796 g	17.656 g	
10/19/2020	13.282g	9.737g	17.621g	
11/5/2020	13.280g	9.728g	17.600g	
12/3/2020	13.281g	9.730g	17.689g	
2/10/2021	13.284g	9.728g	17.683g	
3/9/2021	13.290g	9.733g	17.585g	
4/13/2021	13.288g	9.730g	17.649g	
5/18/2021	13.282g	9.691g	17.543g	
6/17/2021	13.279g	9.639g	17.546g	
7/19/2021	13.278g	9.480g	17.507g	
8/3/2021	13.278g	9.437g	17.467g	
9/14/2021	13.277g	9.392g	17.467g	
Date	Hastelloy	Stainless Steel	Fiberglass	
10/11/2021	13.277g	9.359g	17.465g	
11/3/2021	13.277g	9.350g	17.273g	
12/15/2021	13.276g	9.351g	17.256g	
1/17/2022	13.276g	9.351g	17.256g	
2/15/2022	13.276g	9.347g	16.965g	

CORROSION MONITORING PLAN
COUPON SUMMARY

3/18/2022	13.281g	9.368g	17.246g	
4/18/2022	13.275	9.339	16.656	
5/16/2022	13.298	9.328	16.600	
6/15/2022	13.276	9.300	16.219	
7/20/2022	13.303	9.324	16.393	
8/17/2022	13.277	9.195	15.841	
9/9/2022	13.276	9.171	15.757	
10/19/2022	13.274	9.157	15.623	
11/18/2022	13.274	9.145	15.801	
12/19/2022	13.278	9.132	15.588	
1/18/2023	13.276	9.131	15.761	
2/15/2023	13.274	9.130	15.728	
3/17/2023	13.280	9.138	15.779	
4/25/2023	13.275	9.130	15.726	
5/23/2023	13.276	9.131	15.700	
6/19/2023	13.275	9.088	15.647	
7/20/2023	13.275	9.009	15.607	

October 22, 2015

· TEST REPORT ·

PN 125322

PO 00154

PLASTICS TESTING DEPARTMENT

Prepared For:

John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By: _____
Melissa Martin
Sr. Project Technician

Approved By: _____
Jim Drummond, Sr.
Physical & Plastic Testing, Manager

October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	Results
Barcol Hardness, Instant	96

Prepared By: Melissa Martin
Sr. Project Technician

Approved By: Scott W. Yates
Plastics Testing Assistant Manager

tc

December 12, 2016

▪TEST REPORT▪

PN 132662
PO

PLASTICS TESTING DEPARTMENT

Prepared For:

John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By: _____
Melissa Martin
Senior Project Technician

Approved By: _____
Jim Drummond
Physical Testing, Manager

Rev 041916

December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one (1) material.

RECEIVED: One (1) small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	RESULTS
Barcol Hardness, Instant	96

Prepared By: _____
Melissa Martin
Senior Project Technician

Approved By: _____
Scott Yates
Plastics Testing, Assistant Manager

wk

ARDL is ISO 17025 accredited by A2LA for the test methods listed on the certificates referenced on page one. NOTE: Non-ISO 17025 accredited test methods are designated with the ^ symbol to differentiate from ISO 17025 accredited methods in the body of the test report.

December 13, 2017

▪TEST REPORT▪

PN 139140

PO#

PLASTIC TESTING DEPARTMENT

Prepared For:

John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By: _____
Melissa Martin
Sr Project Technician

Approved By: _____
Jim Drummond
Rubber & Plastic Testing, Manager

Rev 041916

December 13, 2017

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	Results
Barcol Hardness, Instant	96

Prepared By: _____
Melissa Martin
Sr Project Technician

Approved By: _____
Scott Yates
Plastics Testing, Assistant Manager

sc

ARDL is ISO 17025 accredited by A2LA for the test methods listed on the certificates referenced on page one. NOTE: Non-ISO 17025 accredited test methods are designated with the ^ symbol to differentiate from ISO 17025 accredited methods in the body of the test report.

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: November 15, 2013
Test Date: October 15 - November 14, 2013

Report #1310-77651
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/kni

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: February 17, 2014
Test Date: February 14 - 17, 2014

Report #1402-78036
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen was returned to the client on February 17, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

Report Date: June 16, 2014
Test Date: June 13 - 16, 2014

Report #1406-78499
Performed for:
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

October 2, 2014

· TEST REPORT ·

PN 118325

PO Attn:John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By: _____
Melissa Martin
Sr. Project Technician

Approved By: _____
Jim Drummond
Physical & Plastics Testing, Manager

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one material.
PO# Attn;John Frost

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

	Results
Barcol Hardness, Instant	97

Prepared By: _____
Melissa Martin
Sr. Project Technician

Approved By: _____
Scott W. Yates
Plastics Testing Assistant Manager

st

BARCOL HARDNESS REPORT

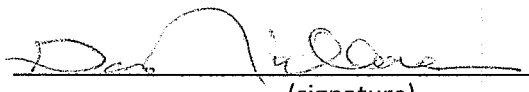
Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

PO Number: 9575553 **Job Number:** 3415

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	62	63	58	61
Side Two:	58	60	57	58
			Overall Average:	60

Tested By: 

(signature)

Gary Nicholson **Date:** 01/12/2021

(print or type name)

BARCOL HARDNESS REPORT

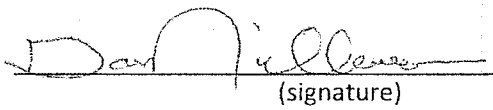
Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

PO Number: 10159792 **Job Number:** 3556

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	56	60	60	59
Side Two:	60	62	62	61
			Overall Average:	60

Tested By: 

(signature)

Gary Nicholson **Date:** 10/11/2021

(print or type name)

BARCOL HARDNESS REPORT

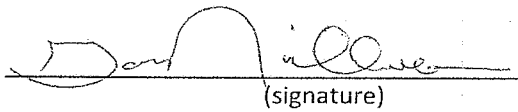
Customer: Republic Industrial and Energy Solutions

Component Tested: Fiberglass Coupon

PO Number: Credit Card **Job Number:** 3734

Calibration: **Disc:** 43 - 48 **Actual Reading:** 45

Barcol Readings	1	2	3	Average
Side One:	55	50	58	54
Side Two:	53	56	59	56
			Overall Average:	55

Tested By: 

(signature)

Gary Nicholson

(print or type name)

Date: 08/23/2022

MAINTENANCE

UIC Monthly Maintenance Log

7/14/2023	Well 1&2	Annual Instrumentation calibration

INJECTION FINGERPRINTS

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 31 / 23
Receiving ID#	I07312304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	22:00
Time out	
Received by	JMH
Sampled by	JMH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.96
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	LIQUID
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	80.2
Conductivity	4.03 MS
% Solids	1.06 %
Turbidity	Yes No
Color	Black
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 31 / 23
Receiving ID#	I073122303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:30
Time out	
Received by	JMH
Sampled by	JMH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	7.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.7 F
Conductivity	28.5 MS
% Solids	0.67%
Turbidity	Yes No
Color	Brown
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 31 / 23
Receiving ID#	I0731230 2
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:34
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.8
Conductivity	86.0 ms
% Solids	0.93
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 31 / 23
Receiving ID#	I073123C1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:40
Time out	
Received by	
Sampled by	Carey Parker

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.0
Conductivity	0.302 mS
% Solids	1.57
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 28 / 23
Receiving ID#	I07282302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	3.36
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.6
Conductivity	6.13 mS
% Solids	0.28
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 /28 / 23
Receiving ID#	107282302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	79.1
Conductivity	46.5ms
% Solids	0.18
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 28 / 23
Receiving ID#	I0728230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:30
Time out	
Received by	
Sampled by	T.G

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	2.07
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.9
Conductivity	6.75
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 27 / 23
Receiving ID#	107272304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	22:00
Time out	
Received by	JMH
Sampled by	JMH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	1.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.9
Conductivity	7.45 MS
% Solids	0.13 %
Turbidity	Yes No
Color	clear
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JMH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 27 / 23
Receiving ID#	10727-2303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:30
Time out	
Received by	JMM
Sampled by	JMM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.10
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.1
Conductivity	93.4
% Solids	Only 1%
Turbidity	Yes No
Color	Clear
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 27 / 23
Receiving ID#	10727W302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:46
Time out	
Received by	
Sampled by	Carey Park II

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	≥ 140
pH (S.U.)	5.43
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.7
Conductivity	2.96 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 27 / 23
Receiving ID#	I0727230I
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:17
Time out	
Received by	J. Dahm
Sampled by	J.F

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.7
Conductivity	34.3 mS
% Solids	0.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	J. Dahm

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 26 / 23
Receiving ID#	I0772303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:00
Time out	
Received by	JMH
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.4
Conductivity	42.9 ms
% Solids	1.26%
Turbidity	Yes No
Color (3")	~~Black~~ Brown
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 26 / 23
Receiving ID#	I072623 02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	79.8
Conductivity	49.7 mS
% Solids	1.54
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 26 / 23
Receiving ID#	T07262301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.02
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.9
Conductivity	74.1 mS
% Solids	5.50
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 25 / 23
Receiving ID#	D072523C9
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	22:00
Time out	
Received by	JMH
Sampled by	JMH

LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	6.10
Cyanides? (mg/L)	<.30
Sulfides? (ppm)?	<2.00
Specific Gravity	1.04
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	91.1
Conductivity	98.7 mS
% Solids	1.87 %
Turbidity	Yes No
Color	Blackish Brown
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 25 / 23
Receiving ID#	I07252304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:48
Time out	
Received by	JMM
Sampled by	D. Ben M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.21
Cyanides? (mg/L)	<20
Sulfides? (ppm)?	<200
Specific Gravity	1.04
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	77.6
Conductivity	43.8 mS
% Solids	~1.20
Turbidity	Yes No
Color	Black
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 25 / 23
Receiving ID#	I07252303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:51
Time out	
Received by	
Sampled by	A. Warlop

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.9
Conductivity	43.9 mS
% Solids	1.75
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 25 / 23
Receiving ID#	T07252302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.8
Conductivity	13.62 mS
% Solids	0.57
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 25 / 23
Receiving ID#	T072523C1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.44
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.8
Conductivity	36.6 mS
% Solids	6.73
Turbidity	Yes No
Color	
TSS (%)	4.0
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 24 / 23
Receiving ID#	20724230 5
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:00
Time out	
Received by	JMA
Sampled by	JMA

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	8.19
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.04
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes (No)
Temperature (F)	80.0
Conductivity	48
% Solids	1.97%
Turbidity	Yes No
Color	Brown
TSS (%)	<0.10
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 24 / 23
Receiving ID#	T072423021
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1557
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	80.5
Conductivity	35.5ms
% Solids	1.33
Turbidity	Yes No
Color	
TSS (%)	<01
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 24 / 23
Receiving ID#	I072423 03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1213
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.2
Conductivity	39.8 mS
% Solids	1.41
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 24 / 23
Receiving ID#	I07 24 23 07
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:09
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.37
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.6
Conductivity	44.3 mS
% Solids	1.58
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 24 / 23
Receiving ID#	I07242301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:13
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.45
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.4
Conductivity	34.9
% Solids	1.44
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 21 / 23
Receiving ID#	10721234
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:00
Time out	
Received by	JMM
Sampled by	JMM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.75
Cyanides? (mg/L)	~~<20~~ <.39
Sulfides? (ppm)?	~~<20~~ <20
Specific Gravity	1.04
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.1
Conductivity	43.1 MS
% Solids	>1.43
Turbidity	Yes No
Color	Brown
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JMM

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 21 / 23
Receiving ID#	I072123D2
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.5
Conductivity	53.8 mS
% Solids	2.85
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 21 / 23
Receiving ID#	102323002
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.6
Conductivity	47.8 ms
% Solids	1.29
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 21 / 23
Receiving ID#	J07212301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	63.6 mS
% Solids	1.91
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 20 / 23
Receiving ID#	I072028A
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	22:00
Time out	
Received by	JM
Sampled by	JM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.52
Cyanides? (mg/L)	<20
Sulfides? (ppm)?	>200
Specific Gravity	1.04
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	80.2
Conductivity	55.5 ms
% Solids	2.43 v.
Turbidity	Yes No
Color	Brown
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 20 / 23
Receiving ID#	20720203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1650
Time out	
Received by	JMH
Sampled by	JMH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.29
Cyanides? (mg/L)	~~7.29~~ 7.29
Sulfides? (ppm)?	200
Specific Gravity	1.94
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	79.8
Conductivity	44.3 mS
% Solids	1.80 %
Turbidity	Yes No
Color	BROWN
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JMH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 20 / 23
Receiving ID#	R072023G2
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:55
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.3
Conductivity	57.5 mS
% Solids	3.08
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 20 / 23
Receiving ID#	E0720230I
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:50
Time out	
Received by	
Sampled by	Chrey D. Parks II

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.7
Conductivity	52.1 ms
% Solids JD	~~3.09~~ 1.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 20 / 23
Receiving ID#	I072D23C1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:53
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.38
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.3
Conductivity	62.1 ms
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	20719230S
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:30
Time out	
Received by	JMM
Sampled by	Dr. Van M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.70
Cyanides? (mg/L)	<.39
Sulfides? (ppm)?	<200
Specific Gravity	1.001
Physical Description	liquid
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	75.8
Conductivity	51.1
% Solids	2.87
Turbidity	Yes No
Color	BROWN
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JMM

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	I071923041
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1547
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	79.1
Conductivity	44.2 ms
% Solids	1.38
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	10719230B
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.7
Conductivity	10.1 mS
% Solids	3.21
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	I07192302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.6
Conductivity	64.3 mS
% Solids	3.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	30719230 1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.87
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.0
Conductivity	40.9 ms
% Solids	2.02
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 18 / 23
Receiving ID#	D0718U304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:40
Time out	
Received by	J.M.M
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.34
Cyanides? (mg/L)	<10
Sulfides? (ppm)?	<200
Specific Gravity	1.03
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.7
Conductivity	39.3 MS
% Solids	1.83
Turbidity	Yes No
Color	light transparent brown
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JMM

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 18 / 23
Receiving ID#	T07182304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:05
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.3
Conductivity	48.1 mS
% Solids	0.62
Turbidity	Yes No
Color	
TSS (%)	LD.
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 18 / 23
Receiving ID#	20718230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:45
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.6
Conductivity	44.4 mS
% Solids	1.47
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 18 / 23
Receiving ID#	230718200
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:40
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.41
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.0
Conductivity	29.1 mS
% Solids	0.99
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 18 / 23
Receiving ID#	IC0718230 1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.4
Conductivity	92.3 mS
% Solids	1.56
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 17 / 23
Receiving ID#	107 7305
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:30
Time out	
Received by	JMH
Sampled by	Bilton

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	714
pH (S.U.)	7.09
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	liquid
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	75.4
Conductivity	43.6 mS
% Solids	% 1.2
Turbidity	(Yes) No
Color	Brown
TSS (%)	<0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	JMH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 17 / 23
Receiving ID#	I071723 04
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:15
Time out	
Received by	
Sampled by	A. Wark

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.52
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	80.3
Conductivity	43.3 mS
% Solids	1.94
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 17 / 23
Receiving ID#	I07172303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1052
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.8
Conductivity	44.6 mS
% Solids	1.76
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 17 / 23
Receiving ID#	I07172302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:40
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.0
Conductivity	429 ms
% Solids	1.88
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 11 / 23
Receiving ID#	10711230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:40 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.30
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.9
Conductivity	35.7 ms
% Solids	1.73
Turbidity	Yes No
Color	
TSS (%)	<01
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 15 / 23
Receiving ID#	Z071523 01
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:16
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	6.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.0
Conductivity	3.02
% Solids	.311
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 14 / 23
Receiving ID#	I071423 03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19.27
Time out	
Received by	A. Wurtz
Sampled by	A. Wurtz

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>1400
pH (S.U.)	7.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.8
Conductivity	42.3
% Solids	.668
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A.Wurtz

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 14 / 23
Receiving ID#	707142302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.5
Conductivity	39.6 mS
% Solids	1.90
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 13 / 23
Receiving ID#	I07132304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:50
Time out	
Received by	
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	7.36
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.6
Conductivity	42.5
% Solids	1.1%
Turbidity	Yes No
Color	Brown
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	Dalton M

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 19 / 23
Receiving ID#	I07192301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:60
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.85
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.2
Conductivity	39.5 mS
% Solids	1.47
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 13 / 23
Receiving ID#	20713230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.2
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.2
Conductivity	52.7 mS
% Solids	2.42
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 13 / 23
Receiving ID#	T07132302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:00
Time out	
Received by	N Escalera
Sampled by	JD Tyler

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	5.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72°
Conductivity	31.2
% Solids	0.78%
Turbidity	Yes No
Color	
TSS (%)	0.50%
Radiation Screen (as needed) Lab Signature/Initials	N Escalera

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 13 / 23
Receiving ID#	I07132301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:34
Time out	
Received by	N [signature]
Sampled by	[signature]

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	5.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73°
Conductivity	35.3
% Solids	1.06%
Turbidity	Yes No
Color	
TSS (%)	0.25%
Radiation Screen (as needed)	
Lab Signature/Initials	N [signature]

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / / 23
Receiving ID#	I0712304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:20
Time out	
Received by	
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.3
Conductivity	44.9
% Solids	1.2%
Turbidity	Yes No
Color	~~WNL~~
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	Dalton M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 12 / 23
Receiving ID#	I07122303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:11
Time out	
Received by	
Sampled by	D. Wright

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.6
Conductivity	47.9 mS
% Solids	1.36
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 12 / 23
Receiving ID#	T07123302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:35
Time out	
Received by	
Sampled by	Corey Parks

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.9
Conductivity	48.1 mS
% Solids	2.07
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 12 / 23
Receiving ID#	I071223.01
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:01
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.4
Conductivity	40.9 mS
% Solids	0.71
Turbidity	Yes No
Color	
TSS (%)	<0.
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / / 23
Receiving ID#	I07112303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:58
Time out	
Received by	
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.42
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.3
Conductivity	32.0
% Solids	.9%
Turbidity	Yes No
Color	
TSS (%)	<.1%
Radiation Screen (as needed)	
Lab Signature/Initials	Dalton M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 11 / 23
Receiving ID#	I071123 02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:45
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.4
Conductivity	43.4 mS
% Solids	1.59
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 11 / 23
Receiving ID#	107112301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07.00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.2
Conductivity	42.1 ms
% Solids	1.58
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 10 / 23
Receiving ID#	I0710230 3
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:31
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.6
Conductivity	37.705
% Solids	1.47
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 10 / 23
Receiving ID#	ID710230L
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:32
Time out	
Received by	
Sampled by	Chrey Pinkett

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.96
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.7
Conductivity	33.6 mS
% Solids	1.62
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 10 / 23
Receiving ID#	I07102301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:38
Time out	
Received by	A. Worley
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	7.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.3
Conductivity	40.6
% Solids	.791
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 7 / 23
Receiving ID#	T07072304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:10
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.66
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.1
Conductivity	48.4
% Solids	.9%
Turbidity	Yes No
Color	
TSS (%)	.5%
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 7 / 23
Receiving ID#	T0707230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1300
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.1
Conductivity	42.6 mS
% Solids	1.61
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 07 / 23
Receiving ID#	I07072302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:47
Time out	
Received by	
Sampled by	Jakey Parks

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.68
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.5
Conductivity	41.8 mS
% Solids	1.20
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 07 / 23
Receiving ID#	I070723O1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:35
Time out	
Received by	
Sampled by	Jarey Parks

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.1
Conductivity	0.699 mS
% Solids	0.09
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 6 / 23
Receiving ID#	20062305
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.89
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.01
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	5.40
% Solids	.05%
Turbidity	Yes No
Color	Clear
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 6 / 23
Receiving ID#	I070623-01
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.0
Conductivity	53.4 mS
% Solids	2.22
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 06 / 23
Receiving ID#	I070623303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:20
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>200
pH (S.U.)	6.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75.6
Conductivity	44.5 mS
% Solids	1.52
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 6 / 23
Receiving ID#	I07062302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:39
Time out	
Received by	
Sampled by	T.G

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.5
Conductivity	20.5 ms
% Solids	0.54
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 6 / 23
Receiving ID#	I0706230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:17
Time out	
Received by	J.D.
Sampled by	D.B.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.102
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.3
Conductivity	60.16 mS
% Solids	0.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	J.D.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 05 / 23
Receiving ID#	I0705z304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:30
Time out	
Received by	
Sampled by	Dalton M

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.83
Cyanides? (mg/L)	<.30
Sulfides? (ppm)?	<200
Specific Gravity	1.07
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	39.8
% Solids	2.4%
Turbidity	Yes No
Color	Brown
TSS (%)	.1%
Radiation Screen (as needed)	
Lab Signature/Initials	Dalton M

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 5 / 23
Receiving ID#	I0705230 3
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:41
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.6
Conductivity	38.8 mS
% Solids	1.83
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 6 / 23
Receiving ID#	T0765230
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.0
Conductivity	38.5 mS
% Solids	1.58
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	07 / 05 / 23
Receiving ID#	I0705??
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:00
Time out	
Received by	[signature]
Sampled by	[signature]

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.32
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.5
Conductivity	36.1ms
% Solids	1.14
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	[signature]

WASTE PROFILES

No waste profiles for the month of July 2023

F039 Analysis

eurofins | Environment Testing

ANALYTICAL REPORT

PREPARED FOR

Attn: Tabetha Peebles
Republic Industrial and Energy Solutions
28470 Citrin Dr
Romulus, Michigan 48174

Generated 8/24/2023 3:47:16 PM

JOB DESCRIPTION

Republic Industrial and Energy Solutions- F039

JOB NUMBER

190-32334-1

Eurofins Michigan
10448 Citation Drive
Suite 200
Brighton MI 48116

See page two for job notes and contact information.

Eurofins Michigan

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Sue Schafer

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8/24/2023 3:47:16 PM

Authorized for release by
Sue Schafer, Project Manager II
Sue.Schafer@et.eurofinsus.com
(810)229-2763

Table of Contents

Sample Summary

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Industrial and Energy Solutions- F039

Job ID: 190-32334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-32334-1	F039 July 2023 Composite	Water	08/02/23 00:00	08/02/23 16:00

Job ID: 190-32334-1

Laboratory: Eurofins Michigan

Narrative

Job Narrative
190-32334-1

Receipt
The sample was received on 8/2/2023 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.4°C

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: F039 July 2023 Composite (190-32334-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), associated with preparation batch 240-582889 and analytical batch 240-583187. Percent recoveries are based on the amount spiked. A dilution was needed to bring the analytes within calibration range.

Method 8081B: Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-2 0.32mm ID: F039 July 2023 Composite (190-32334-1). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8081B: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: F039 July 2023 Composite (190-32334-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Industrial and Energy Solutions- F039

Job ID: 190-32334-1

Client Sample ID: F039 July 2023 Composite
Date Collected: 08/02/23 00:00
Date Received: 08/02/23 16:00

Lab Sample ID: 190-32334-1
Matrix: Water

5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrosodimethylamine	<50		50	ug/L		08/04/23 08:34	08/07/23 19:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*41*		*31 - 140*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
Phenol-d5 (Surr)	*24*		*18 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
Nitrobenzene-d5 (Surr)	*93*		*13 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2-Fluorophenol (Surr)	*29*		*12 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2-Fluorobiphenyl (Surr)	*66*		*23 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 126*	*08/04/23 08:34*	*08/07/23 19:02*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<1.0		1.0	ug/L		08/04/23 09:02	08/08/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*10 - 145*	*08/04/23 09:02*	*08/08/23 12:48*	*1*
Tetrachloro-m-xylene	*92*		*10 - 123*	*08/04/23 09:02*	*08/08/23 12:48*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-582873/21-A
Matrix: Water
Analysis Batch: 583005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582873

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrosodimethylamine	<1.0		1.0	ug/L		08/04/23 08:34	08/06/23 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*31 - 140*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
Phenol-d5 (Surr)	*35*		*18 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
Nitrobenzene-d5 (Surr)	*70*		*13 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2-Fluorophenol (Surr)	*50*		*12 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2-Fluorobiphenyl (Surr)	*76*		*23 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 126*	*08/04/23 08:34*	*08/06/23 10:55*	*1*

Lab Sample ID: LCS 240-582873/22-A
Matrix: Water
Analysis Batch: 583005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrosodimethylamine	20.0	6.45		ug/L		32	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*95*		*31 - 140*
Phenol-d5 (Surr)	*39*		*18 - 120*
Nitrobenzene-d5 (Surr)	*82*		*13 - 120*
2-Fluorophenol (Surr)	*57*		*12 - 120*
2-Fluorobiphenyl (Surr)	*84*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*104*		*10 - 126*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-582889/6-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582889

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.050		0.050	ug/L		08/04/23 09:02	08/08/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*	*p*	*10 - 145*	*08/04/23 09:02*	*08/08/23 13:06*	*1*
Tetrachloro-m-xylene	*67*		*10 - 123*	*08/04/23 09:02*	*08/08/23 13:06*	*1*

Lab Sample ID: LCS 240-582889/7-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	1.00	0.899		ug/L		90	26 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*10 - 145*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-582889/7-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582889

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	66		10 - 123

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

MICHIGAN 190

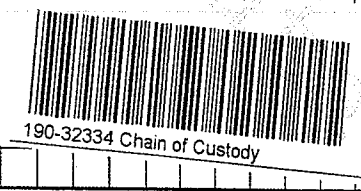
Chain of Custody Record

MICHIGAN 190

eurofins Environment Testing

Client Information	Sampler: J. Hawkins	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-39123-2896.1
Client Contact: ~~Rick Sauve~~ John Frost	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Republic Industrial and Energy Solutions	PWSID:	Analysis Requested		Job #:
Address: 28470 Citrin Dr	Due Date Requested:			Preservation Codes:
City: Romulus	TAT Requested (days):			A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
State, Zip: MI, 48174	Compliance Project: Δ Yes Δ No			
Phone: 313-347-1328(Tel)	PO #: 30049877C (2022)			
Email: rsauve@republicservices.com	WO #:			Other:
Project Name: Republic Ind & Eng Sol - F039	Project #: 19001517			
Site:	SSOW#:			

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E - Nitrosodimethylamine	8081B - Aldrin	8290A - Dioxins	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
F039 July 2023 Composite	8/2/23		C	Water			X	X	X		



Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
1		8/2/23	RIES		8/3/2023 1300	EETA
2		8/3/2023 1303	RIES EETA		8/2/23 16:00	EETA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

8/24/2023

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☐ SDS or Known Hazard Information Supplied by Client
☐ Discrepancies
☐ Short Hold
Client ID: Republic Industries
Work Oder #: 132334
☐ Rush ☐ 24 Hr ☐ 2-Day ☐ 3-Day ☐ 5-Day ☐ Other: _____
Receipt Evaluation Performed by: Initials: JL Date: 8/2 Time: 16:00

Cooler / Sample Receipt

After hours receipt: complete gray areas. Place cooler in walk-in, place form in Receiving box. Date: _____ Time: _____

Method of Shipment:
Walk-In Client Eurofins TA Field Courier
Other Client / 3rd Party Courier: _____
Fed Ex Tracking #: _____
UPS Tracking #: _____
Other: _____

Shipping Container Type:
☑ Cooler ☐ Box
☐ None ☐ Other: _____

Custody Seals Intact:
☐ Yes ☐ No
☑ NA (not used or required)

Packing Materials:
☐ Plastic Bags ☐ Foam
☑ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other: _____

Cooling Materials:
☐ Ice (Solid) ☐ Ice (Melted)
☐ Blue Ice ☐ None
☐ Other: _____

Bacteriological Samples	Temp Corrected (°C)	Frozen? Yes	Frozen? No	Rec'd Within 2 Hrs? Yes	Rec'd Within 2 Hrs? No	Sample Flagged? Yes	Sample Flagged? No

Received on same day sampled? Yes No Additional Sheets Required? Yes No

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Acceptable	Cooler ID	Affected Samples
CP313209	6.4	6.4		✓	✓ Y N		Bubble Wrap
					Y N		
					Y N		

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?		✓		No sample time on Bottles or CoC.
Containers and Labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)*	✓			
Appropriate containers used and adequate volume provided?	✓			Preserved bottles checked for pH?* Yes No
Number of sample containers match CoC?	✓			pH strip lot # _____
Samples received within hold?	✓			
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?			✓	
Was a Trip Blank received with VOA samples?			✓	
Were the samples free of any questionable physical conformities? (i.e.; field duplicates or multiple bottles of the same sample do not significantly vary in appearance – color, solid proportions, etc.)	✓			
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	✓			
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAs, TOC Vials, HEM

Client Contact Record
Contact Via: ☐ Phone ☐ Email ☐ Other: _____ Person Contacted: _____ Date/Time: _____
☐ Discrepancy allowance agreement is on record in the client project file
Discussion / Resolution

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.
Reviewed by _____ Date: 8/2/2023

WI-MI-010_020720

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

0-5|0-4

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-36858.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 190-32334-1
Address: 180 S. Van Buren Avenue, .	Due Date Requested: 8/15/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #			
Email:	WO #			
Project Name: Republic Industrial and Energy Solutions- F039	Project #: 19001517			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

E123

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B/3510C Aldrin	8270E/3510C Nitrosodimethylamine	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
F039 July 2023 Composite (190-32334-1)	8/2/23	Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/2/23 16:10	EETA	[signature]	8-3-23 800	EETNC
2	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client EA Site Name_____ Cooler unpacked by: Danny Boyd

Cooler Received on 8.3.23 Opened on 8.3.23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # EC Foam Box Client Cooler Box Other_____

Packing material used: Bubble Wrap Foam Plastic Bag None Other_____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 0.5 °C Corrected Cooler Temp. 0.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC312502
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⇐ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.

Time preserved: _____ Preservative(s) added/Lot number(s):_____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

Chain of Custody Record

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Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-36857.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note):		Job #: 190-32334-1
Address: 2425 New Holland Pike, ,	Due Date Requested: 8/15/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Republic Industrial and Energy Solutions- F039	Project #: 19001517			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) Project List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
F039 July 2023 Composite (190-32334-1)	8/2/23	Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		8/2/23 16:20	ETA			
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time:	Company	Received by:	8/4/23 10:24	ET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 0.3 C: 0.1

Ver: 06/08/2021

Fedex 1193 4102 1671 9/13/23

REPUBLIC SERVICES
28470 Citrin Drive Romulus, MI 48174
o 734 946 1000 republicservices.com

September 13, 2023

Mr. Andrew Greenhagen
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: RIES Monthly Report – F039 Finalized Analysis

Dear Mr. Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) submitted the hundred and thirtieth Report ("MR") dated August 10, 2023 and in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011). In the August 10, 2023 report, the analysis for the F039 was submitted as a preliminary report due to the laboratory not having the dioxin analysis available at the time that the report was due for submission. The finalized F039 analytical was received on September 12, 2023 and is hereby submitted as an attachment to this letter. Please remove the "F039 Analysis" from the August 10, 2023 report and replace it with the attached "F039 Analysis".

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my supervision and interaction with the persons who manage and operate the system, and those persons responsible for the collection of the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions or comments, please feel free to contact us.

Sincerely,

JCBt

John C. Barta

cc: Tabetha Peebles (Republic Services)
John Frost (Republic Services)

F039 Analysis

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1

ANALYTICAL REPORT

PREPARED FOR

Attn: Tabetha Peebles
Republic Industrial and Energy Solutions
28470 Citrin Dr
Romulus, Michigan 48174

Generated 9/11/2023 11:58:38 AM

JOB DESCRIPTION

Republic Industrial and Energy Solutions- F039

JOB NUMBER

190-32334-1

Eurofins Michigan
10448 Citation Drive
Suite 200
Brighton MI 48116

See page two for job notes and contact information.

my EOL

Eurofins Michigan

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing North Central, LLC Project Manager.

Authorization

Sue Schafer

Generated
9/11/2023 11:58:38 AM

Authorized for release by
Sue Schafer, Project Manager II
Sue.Schafer@et.eurofinsus.com
(810)229-2763

Table of Contents

Sample Summary

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Industrial and Energy Solutions- F039

Job ID: 190-32334-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
190-32334-1	F039 July 2023 Composite	Water	08/02/23 00:00	08/02/23 16:00

Job ID: 190-32334-1

Laboratory: Eurofins Michigan

Narrative

Job Narrative
190-32334-1

Receipt
The sample was received on 8/2/2023 4:00 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 6.4°C

GC/MS Semi VOA
Method 8270E: The following sample was diluted due to the nature of the sample matrix: F039 July 2023 Composite (190-32334-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Pesticides
Method 8081B: An incorrect volume of spiking solution was inadvertently added to the laboratory control sample (LCS), associated with preparation batch 240-582889 and analytical batch 240-583187. Percent recoveries are based on the amount spiked. A dilution was needed to bring the analytes within calibration range.

Method 8081B: Internal standard (ISTD) response for the following sample exceeded the control limit on Column CLP-2 0.32mm ID: F039 July 2023 Composite (190-32334-1). As such, the sample results associated with this ISTD were reported from the other column, which met ISTD acceptance criteria.

Method 8081B: The following sample required a tetrabutylammonium sulfite (TBA) clean-up to reduce matrix interferences caused by sulfur: F039 July 2023 Composite (190-32334-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Dioxin
Method 8290A: Due to the matrix, the initial volume(s) used for the following sample deviated from the standard procedure: F039 July 2023 Composite (190-32334-1). The reporting limits (RLs) have been adjusted proportionately.

Method 8290A: The bracketing continuing calibration verification (CCV) associated with batch 410-416883 has analytes with percent difference values that are between the method criteria of 30% to 35% deviation from the initial calibration curve. Per method guidelines, an average relative response factor (RRF) is calculated from the bracketing CCV and is used to quantitate the Isotope Dilution Analyte (IDA) recovery in the associated samples.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Client Sample ID: F039 July 2023 Composite
Lab Sample ID: 190-32334-1
Date Collected: 08/02/23 00:00
Matrix: Water
Date Received: 08/02/23 16:00

5

Method: SW846 8270E - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrosodimethylamine	<50		50	ug/L		08/04/23 08:34	08/07/23 19:02	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*41*		*31 - 140*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
Phenol-d5 (Surr)	*24*		*18 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
Nitrobenzene-d5 (Surr)	*93*		*13 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2-Fluorophenol (Surr)	*29*		*12 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2-Fluorobiphenyl (Surr)	*66*		*23 - 120*	*08/04/23 08:34*	*08/07/23 19:02*	*50*
2,4,6-Tribromophenol (Surr)	*64*		*10 - 126*	*08/04/23 08:34*	*08/07/23 19:02*	*50*

Method: SW846 8081B - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<1.0		1.0	ug/L		08/04/23 09:02	08/08/23 12:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*44*		*10 - 145*	*08/04/23 09:02*	*08/08/23 12:48*	*1*
Tetrachloro-m-xylene	*92*		*10 - 123*	*08/04/23 09:02*	*08/08/23 12:48*	*1*

Method: SW846 8290A - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	<250		250		pg/L		09/06/23 22:35	09/07/23 21:28	1
1,2,3,4,7,8-HxCDD	<250		250		pg/L		09/06/23 22:35	09/07/23 21:28	1
1,2,3,6,7,8-HxCDD	<250		250		pg/L		09/06/23 22:35	09/07/23 21:28	1
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	**1200**		500		pg/L		09/06/23 22:35	09/07/23 21:28	1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	<1100		1100		pg/L		09/06/23 22:35	09/07/23 21:28	1
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	<50		50		pg/L		09/06/23 22:35	09/07/23 21:28	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-1,2,3,4,7,8-HxCDD	*93*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*
13C-1,2,3,6,7,8-HxCDD	*92*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*
13C-1,2,3,7,8,9-HxCDD	*96*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*
13C-OCDD	*95*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*
13C-OCDF	*91*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*
13C-2,3,7,8-TCDD	*100*		*40 - 135*	*09/06/23 22:35*	*09/07/23 21:28*	*1*

Method: 8270E - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-582873/21-A
Matrix: Water
Analysis Batch: 583005

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582873

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrosodimethylamine	<1.0		1.0	ug/L		08/04/23 08:34	08/06/23 10:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Terphenyl-d14 (Surr)	*93*		*31 - 140*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
Phenol-d5 (Surr)	*35*		*18 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
Nitrobenzene-d5 (Surr)	*70*		*13 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2-Fluorophenol (Surr)	*50*		*12 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2-Fluorobiphenyl (Surr)	*76*		*23 - 120*	*08/04/23 08:34*	*08/06/23 10:55*	*1*
2,4,6-Tribromophenol (Surr)	*78*		*10 - 126*	*08/04/23 08:34*	*08/06/23 10:55*	*1*

Lab Sample ID: LCS 240-582873/22-A
Matrix: Water
Analysis Batch: 583005

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582873

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Nitrosodimethylamine	20.0	6.45		ug/L		32	10 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Terphenyl-d14 (Surr)	*95*		*31 - 140*
Phenol-d5 (Surr)	*39*		*18 - 120*
Nitrobenzene-d5 (Surr)	*82*		*13 - 120*
2-Fluorophenol (Surr)	*57*		*12 - 120*
2-Fluorobiphenyl (Surr)	*84*		*23 - 120*
2,4,6-Tribromophenol (Surr)	*104*		*10 - 126*

Method: 8081B - Organochlorine Pesticides (GC)

Lab Sample ID: MB 240-582889/6-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 582889

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	<0.050		0.050	ug/L		08/04/23 09:02	08/08/23 13:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl	*99*	*p*	*10 - 145*	*08/04/23 09:02*	*08/08/23 13:06*	*1*
Tetrachloro-m-xylene	*67*		*10 - 123*	*08/04/23 09:02*	*08/08/23 13:06*	*1*

Lab Sample ID: LCS 240-582889/7-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582889

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Aldrin	1.00	0.899		ug/L		90	26 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl	*89*		*10 - 145*

Method: 8081B - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 240-582889/7-A
Matrix: Water
Analysis Batch: 583187

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 582889

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	66		10 - 123

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 410-416696/1-A
Matrix: Water
Analysis Batch: 416883

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 416696

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	<25		25		pg/L		09/06/23 22:35	09/07/23 20:34	1
1,2,3,4,7,8-HxCDD	<25		25		pg/L		09/06/23 22:35	09/07/23 20:34	1
1,2,3,6,7,8-HxCDD	<25		25		pg/L		09/06/23 22:35	09/07/23 20:34	1
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	<50		50		pg/L		09/06/23 22:35	09/07/23 20:34	1
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	<110		110		pg/L		09/06/23 22:35	09/07/23 20:34	1
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	<5.0		5.0		pg/L		09/06/23 22:35	09/07/23 20:34	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C-1,2,3,4,7,8-HxCDD	65		40 - 135	09/06/23 22:35	09/07/23 20:34	1
13C-1,2,3,6,7,8-HxCDD	64		40 - 135	09/06/23 22:35	09/07/23 20:34	1
13C-1,2,3,7,8,9-HxCDD	67		40 - 135	09/06/23 22:35	09/07/23 20:34	1
13C-OCDD	62		40 - 135	09/06/23 22:35	09/07/23 20:34	1
13C-OCDF	62		40 - 135	09/06/23 22:35	09/07/23 20:34	1
13C-2,3,7,8-TCDD	61		40 - 135	09/06/23 22:35	09/07/23 20:34	1

Lab Sample ID: LCS 410-416696/2-A
Matrix: Water
Analysis Batch: 416883

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 416696

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	1000	900		pg/L		90	56 - 139
1,2,3,4,7,8-HxCDD	1000	904		pg/L		90	58 - 139
1,2,3,6,7,8-HxCDD	1000	951		pg/L		95	57 - 139
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	2000	1750		pg/L		87	29 - 154
1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	2000	1750		pg/L		87	27 - 156
2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD)	200	181		pg/L		90	51 - 163

Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits
13C-1,2,3,4,7,8-HxCDD	80		40 - 135
13C-1,2,3,6,7,8-HxCDD	75		40 - 135
13C-1,2,3,7,8,9-HxCDD	83		40 - 135
13C-OCDD	75		40 - 135
13C-OCDF	72		40 - 135
13C-2,3,7,8-TCDD	86		40 - 135

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

MICHIGAN 190

Chain of Custody Record

MICHIGAN 190

eurofins | Environment Testing

Client Information	Sampler: J. Hawkins	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-39123-2896.1
Client Contact: ~~Rick Sauve~~ John Frost	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin:	Page: Page 1 of 1
Company: Republic Industrial and Energy Solutions	PWSID:			Job #:
Address: 28470 Citrin Dr	Due Date Requested:			
City: Romulus	TAT Requested (days):			
State, Zip: MI, 48174	Compliance Project: Δ Yes Δ No			
Phone: 313-347-1328(Tel)	PO #: 30049877C (2022)			
Email: rsauve@republicservices.com	WO #:			
Project Name: Republic Ind & Eng Sol - F039	Project #: 19001517			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Y - Trizma
	Z - other (specify)

Other:

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8270E - Nitrosodimethylamine	8081B - Aldrin	8290A - Dioxins	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	N	N		
F039 July 2023 Composite	8/1/23		C	Water			X	X	X		

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify)	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
1		8/2/23	RES		8/2/2023 1300	ETA
2		8/2/2023 1303	ETA		8/2/23 16:00	ETA
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

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9/11/2023

eurofins | Environment Testing TestAmerica

☐ SDS or Known Hazard Information Supplied by Client
☐ Discrepancies
☐ Short Hold
Client ID: Republic Industries
Work Oder #: 13233

Cooler / Sample Receipt

☐ Rush ☐ 24 Hr ☐ 2-Day ☐ 3-Day ☐ 5-Day ☐ Other: _____

After hours receipt: complete gray areas. Place cooler in walk-in, place form in Receiving box. Date: _____ Time: _____

Receipt Evaluation Performed by: Initials: [illegible] Date: 8/2 Time: 16:00

Method of Shipment:
Walk-In Client Eurofins TA Field/Courier
Other Client / 3rd Party Courier: _____
Fed Ex Tracking #: _____
UPS Tracking #: _____
Other: _____

Shipping Container Type:
☑ Cooler ☐ Box
☐ None ☐ Other: _____

Packing Materials:
☐ Plastic Bags ☐ Foam
☑ Bubble Wrap ☐ Paper
☐ Packing Peanuts ☐ None
☐ Other: _____

Custody Seals Intact:
☐ Yes ☐ No
☑ NA (not used or required)

Cooling Materials:
☐ Ice (Solid) ☐ Ice (Melted)
☐ Blue Ice ☐ None
☐ Other: _____

Bacteriological Samples	Temp Corrected (°C)	Frozen? Yes	Frozen? No	Rec'd Within 2 Hrs? Yes	Rec'd Within 2 Hrs? No	Sample Flagged? Yes	Sample Flagged? No

Received on same day sampled? (Yes) No Additional Sheets Required? (Yes) No

Receipt Temperatures

Thermometer ID	Observed (°C)	Corrected (°C)	Temp Blank	Sample Temp	Acceptable	Cooler ID	Affected Samples
CP313207	6.4	6.4		✓	✓ Y _ N		Bubble Wrap
					_ Y _ N		
					_ Y _ N		

Receipt Questions**	Y	N	NA	"No" answers require additional comment
CoC present and ETA receipt signature, date, and time properly documented?		✓		No Sample time on Bottles or CoC.
Containers and Labels in good condition? *(unbroken, not leaking, appropriately filled, labels legible & attached)*	✓			
Appropriate containers used and adequate volume provided?	✓			Preserved bottles checked for pH?* Yes (No)
Number of sample containers match CoC?	✓			pH strip lot # _____
Samples received within hold?	✓			
Samples submitted for GRO and Volatiles analysis (8260, 624, 524) received without headspace?			✓	
Was a Trip Blank received with VOA samples?			✓	
Were the samples free of any questionable physical conformities? (i.e.; field duplicates or multiple bottles of the same sample do not significantly vary in appearance – color, solid proportions, etc.)	✓			
Were the CoC bottle labels and all other items free of all other discrepancies or issues that would need to be addressed with the Project Manager and/or Client?	✓			
**May not be applicable if samples are not for compliance testing				*Excludes FOG, VOAs, TOC Vials, HEM

Client Contact Record

Contact Via: ☐ Phone ☐ Email ☐ Other: _____ Person Contacted: _____ Date/Time: _____
☐ Discrepancy allowance agreement is on record in the client project file

Discussion / Resolution

Any additional documentation and clarification from the client must be noted in the narrative and/or scanned into the CoC directory.

Reviewed by _____ Date: 8/2/2023

WI-MI-010_020720

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

0-5 | 0-4

Chain of Custody Record

eurofins Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-36858.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Environment Testing North Centr		Accreditations Required (See note):		Job #: 190-32334-1
Address: 180 S. Van Buren Avenue,	Due Date Requested: 8/15/2023			
City: Barberton	TAT Requested (days):			
State, Zip: OH, 44203				
Phone: 330-497-9396(Tel) 330-497-0772(Fax)	PO #:			
Email:	WO #:			
Project Name: Republic Industrial and Energy Solutions- F039	Project #: 19001517			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify), Other:

E123

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8081B/3510C Aldrin	8270E/3510C Nitrosodimethylamine	Total Number of containers	Special Instructions/Note:
			Preservation Code:							
F039 July 2023 Composite (190-32334-1)	8/2/23	Eastern		Water			X	X	4	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1	[signature]	8/2/23 16:10	EEA	[signature]	8-3-23 800	EETNC
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
3	Relinquished by:	Date/Time	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Ver: 06/08/2021

Eurofins – Cleveland Sample Receipt Form/Narrative Login # :_____
Barberton Facility

Client ETA Site Name_____ Cooler unpacked by: Vanny Roya

Cooler Received on 8.3.23 Opened on 8.3.23

FedEx: 1st Grd Exp UPS FAS Waypoint Client Drop Off Eurofins Courier Other_____

Receipt After-hours: Drop-off Date/Time_____ Storage Location_____

Eurofins Cooler # EC Foam Box Client Cooler Box Other_____

Packing material used: Bubble Wrap Foam Plastic Bag None Other_____

COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt ☐ See Multiple Cooler Form

IR GUN # 22 (CF -0.1 °C) Observed Cooler Temp. 0.5 °C Corrected Cooler Temp. 0.4 °C

2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1	Yes	No
-Were the seals on the outside of the cooler(s) signed & dated?	Yes	No NA
-Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)?	Yes	No
-Were tamper/custody seals intact and uncompromised?	Yes	No NA
3. Shippers' packing slip attached to the cooler(s)?	Yes	No
4. Did custody papers accompany the sample(s)?	Yes	No
5. Were the custody papers relinquished & signed in the appropriate place?	Yes	No
6. Was/were the person(s) who collected the samples clearly identified on the COC?	Yes	No
7. Did all bottles arrive in good condition (Unbroken)?	Yes	No
8. Could all bottle labels (ID/Date/Time) be reconciled with the COC?	Yes	No
9. For each sample, does the COC specify preservatives (Y/N), # of containers (Y/N), and sample type of grab/comp (Y/N)?		
10. Were correct bottle(s) used for the test(s) indicated?	Yes	No
11. Sufficient quantity received to perform indicated analyses?	Yes	No
12. Are these work share samples and all listed on the COC?	Yes	No
If yes, Questions 13-17 have been checked at the originating laboratory.		
13. Were all preserved sample(s) at the correct pH upon receipt?	Yes	No NA pH Strip Lot# HC312502
14. Were VOAs on the COC?	Yes	No
15. Were air bubbles >6 mm in any VOA vials? ● ⬅ Larger than this.	Yes	No NA
16. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot #_____	Yes	No
17. Was a LL Hg or Me Hg trip blank present? _____	Yes	No

Tests that are not checked for pH by Receiving:
VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

18. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES ☐ additional next page

Samples processed by:

19. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
Sample(s) _____ were received in a broken container.
Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

20. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in the laboratory.
Time preserved: _____ Preservative(s) added/Lot number(s): _____

VOA Sample Preservation - Date/Time VOAs Frozen: _____

Eurofins Michigan
10448 Citation Drive Suite 200
Brighton, MI 48116
Phone: 810-229-2763 Fax: 810-229-0000

Chain of Custody Record

eurofins | Environment Testing

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Schafer, Sue	Carrier Tracking No(s):	COC No: 190-36857.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: Sue.Schafer@et.eurofinsus.com	State of Origin: Michigan	Page: Page 1 of 1
Company: Eurofins Lancaster Laboratories Environm		Accreditations Required (See note):		Job #: 190-32334-1
Address: 2425 New Holland Pike,	Due Date Requested: 8/15/2023			
City: Lancaster	TAT Requested (days):			
State, Zip: PA, 17601				
Phone: 717-656-2300(Tel)	PO #:			
Email:	WO #:			
Project Name: Republic Industrial and Energy Solutions- F039	Project #: 19001517			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:
A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2O3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - pH 4-5, Y - Trizma, Z - other (specify)
Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290A/8290_P_Sep (MOD) Project List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
F039 July 2023 Composite (190-32334-1)	8/2/23	Eastern		Water			X	2	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing North Central, LLC places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing North Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing North Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing North Central, LLC.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time: 8/2/23 16:20	Company: EETA	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 8/4/23 10:24	Company: ELET

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: R: 0.3 C: 0.1

Ver: 06/08/2021

Isotope Dilution Summary

Client: Republic Industrial and Energy Solutions
Project/Site: Republic Industrial and Energy Solutions- F039

Job ID: 190-32334-1

Method: 8290A - Dioxins and Furans (HRGC/HRMS)

Matrix: Water

Prep Type: Total/NA

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	HxCDD (40-135)	HxDD (40-135)	13CHxCD (40-135)	OCDD (40-135)	OCDF (40-135)	TCDD (40-135)		
190-32334-1	F039 July 2023 Composite	93	92	96	95	91	100		
LCS 410-416696/2-A	Lab Control Sample	80	75	83	75	72	86		
MB 410-416696/1-A	Method Blank	65	64	67	62	62	61		

Surrogate Legend

HxCDD = 13C-1,2,3,4,7,8-HxCDD
HxDD = 13C-1,2,3,6,7,8-HxCDD
13CHxCD = 13C-1,2,3,7,8,9-HxCDD
OCDD = 13C-OCDD
OCDF = 13C-OCDF
TCDD = 13C-2,3,7,8-TCDD