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

January 9, 2023

Mr. Allan Batka
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, IL 60604

Re: RIES Monthly Report

Dear Mr. Batka:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the Hundred and Sixth Monthly 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 November of 2022 so as stated on page A-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,

John Frost

cc: Rick Sauve (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2022

CURRENT REPORTING MONTH November

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	471,259	0	471,259
Since facility first injected			50,325,032
MI-163-1W-C011, Well #2-12			
Current Month	547,771	0	547,771
Since facility first injected			30,361,547
		Lifetime Combined	80,686,579

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 107

107 lifetime number of months of injection × 43,830 minutes/month
= 4,689,810 minutes of injection

Lifetime combined injected volume 80,686,579 ÷ 4,689,810 minutes of injection
= 17.20 gpm average injection rate

WELL 1 DATA

REPUBLIC SERVICES

Injection Well 1, November 2022

	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
11/1/2022	134.2	940.1	24.8	24.9	851.9	1396.6	2.3	9.1	0.0	44.5	323.4	800.1
11/2/2022	125.9	941.0	24.8	24.9	889.1	1387.4	2.6	7.8	0.0	63.2	360.8	824.8
11/3/2022	137.2	940.1	24.8	24.9	897.0	1,322.1	4.4	12.6	0.0	38.6	339.8	808.7
11/4/2022	113.0	940.2	24.8	24.9	861.1	1,323.4	3.1	7.5	0.0	38.9	296.8	769.7
11/5/2022	39.4	941.5	24.8	24.9	849.7	1,292.6	3.1	7.3	0.0	41.3	331.0	770.0
11/6/2022	133.7	133.7	24.8	24.8	819.5	819.5	6.7	6.7	0.0	0.0	685.8	685.8
11/7/2022	111.3	912.8	24.8	24.8	801.2	1,240.0	3.3	12.8	0.0	31.3	257.6	741.0
11/8/2022	41.2	938.7	24.7	24.8	796.2	1,219.7	3.5	9.2	0.0	39.4	215.1	775.8
11/9/2022	30.1	941.0	24.6	24.8	796.8	1,209.9	5.9	7.8	0.0	33.1	211.7	743.3
11/10/2022	99.9	939.4	24.7	24.9	803.9	1,217.5	6.1	7.5	0.0	39.2	234.7	706.4
11/11/2022	92.3	943.6	24.8	24.9	808.5	1,217.8	5.5	7.8	0.0	41.9	243.4	699.9
11/12/2022	109.8	186.4	24.6	24.8	769.9	847.2	6.9	7.2	0.0	0.0	659.7	686.0
11/13/2022	103.0	110.2	24.6	24.6	754.7	770.5	6.8	6.9	0.0	0.0	651.2	660.6
11/14/2022	66.8	940.4	23.5	24.6	750.9	1,323.4	2.7	9.1	0.0	39.5	148.7	694.1
11/15/2022	105.7	941.4	23.6	23.7	967.1	1,354.3	5.1	7.7	0.0	38.9	374.1	863.2
11/16/2022	105.7	940.5	23.6	23.7	969.8	1,354.1	6.4	7.9	0.0	34.5	386.5	864.8
11/17/2022	110.4	939.8	23.6	23.7	969.1	1,345.4	5.5	7.6	0.0	34.5	383.6	861.5
11/18/2022	76.6	940.5	23.6	23.7	960.7	1,308.0	3.4	7.6	0.0	29.2	303.6	889.0
11/19/2022	131.4	253.7	23.5	23.6	936.9	972.6	7.3	7.5	0.0	0.0	718.5	813.9
11/20/2022	125.9	131.8	23.4	23.5	939.3	945.3	7.4	7.4	0.0	0.0	812.9	814.6
11/21/2022	63.3	940.2	23.4	23.6	937.3	1,244.7	3.0	8.2	0.0	39.4	247.9	866.2
11/22/2022	98.2	939.4	23.5	23.6	914.5	1,256.5	6.0	8.0	0.0	39.8	300.0	824.9
11/23/2022	75.2	939.7	23.5	23.7	916.1	1,250.0	6.2	7.8	0.0	35.0	305.7	832.4
11/24/2022	107.5	130.0	23.5	23.6	914.0	916.9	7.1	7.4	0.0	0.0	786.1	808.3
11/25/2022	102.6	108.0	23.6	23.7	911.7	916.1	7.1	7.2	0.0	0.0	807.7	809.7
11/26/2022	99.2	103.0	23.5	23.6	907.5	912.0	7.1	7.2	0.0	0.0	807.8	809.7
11/27/2022	96.5	99.6	23.5	23.6	902.8	908.0	7.1	7.1	0.0	0.0	805.9	808.5
11/28/2022	81.7	940.2	23.5	23.6	900.8	1192.7	3.2	8.4	0.0	40.4	169.5	819.0
11/29/2022	106.8	940.4	23.6	23.7	846.8	1203.1	3.2	8.5	0.0	40.1	176.4	742.0
11/30/2022	108.2	939.4	23.6	23.7	872.5	1224.9	2.7	8.2	0.0	40.0	208.9	768.8

Circle Chart Index

Environmental Geo-Technologies, 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

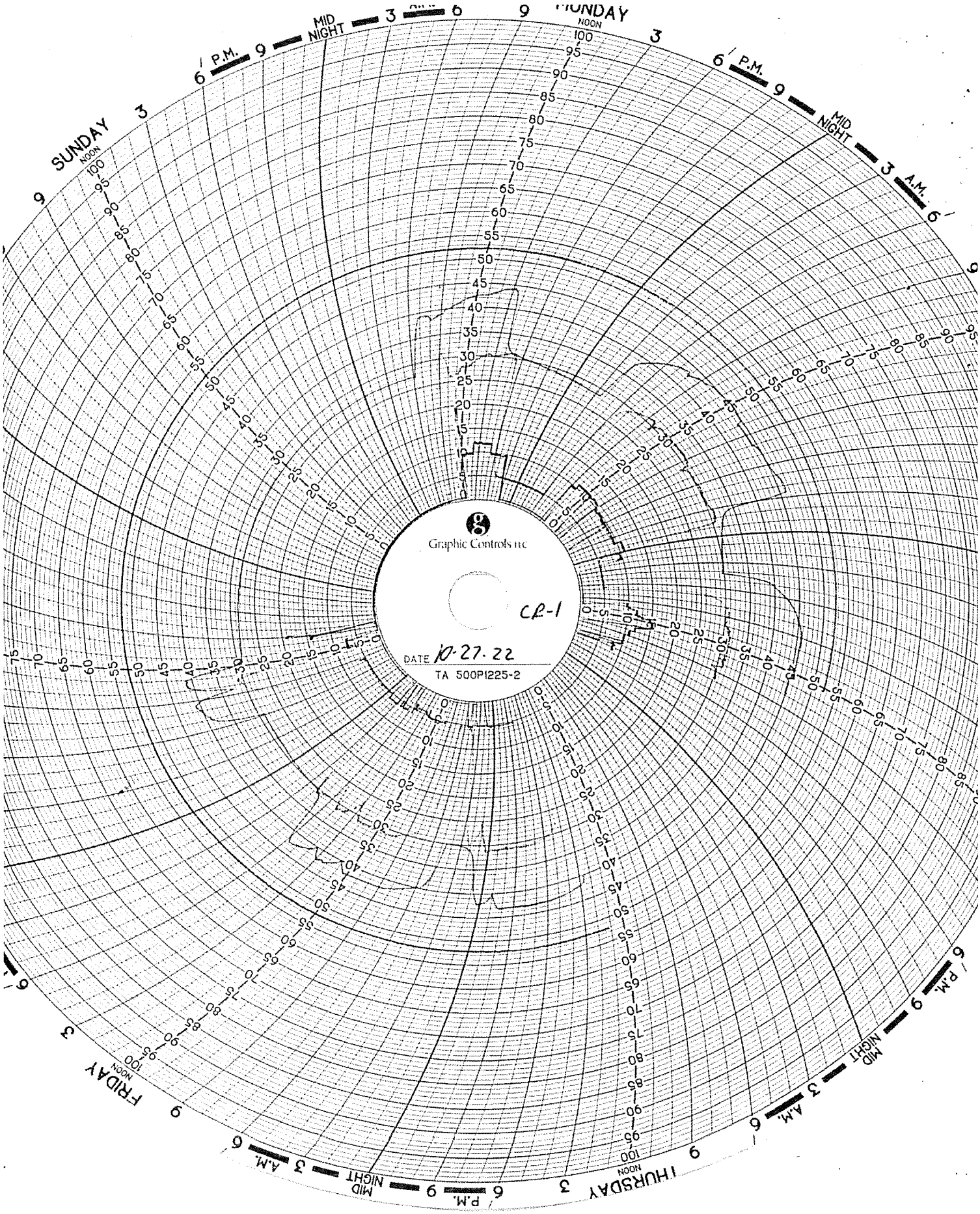
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

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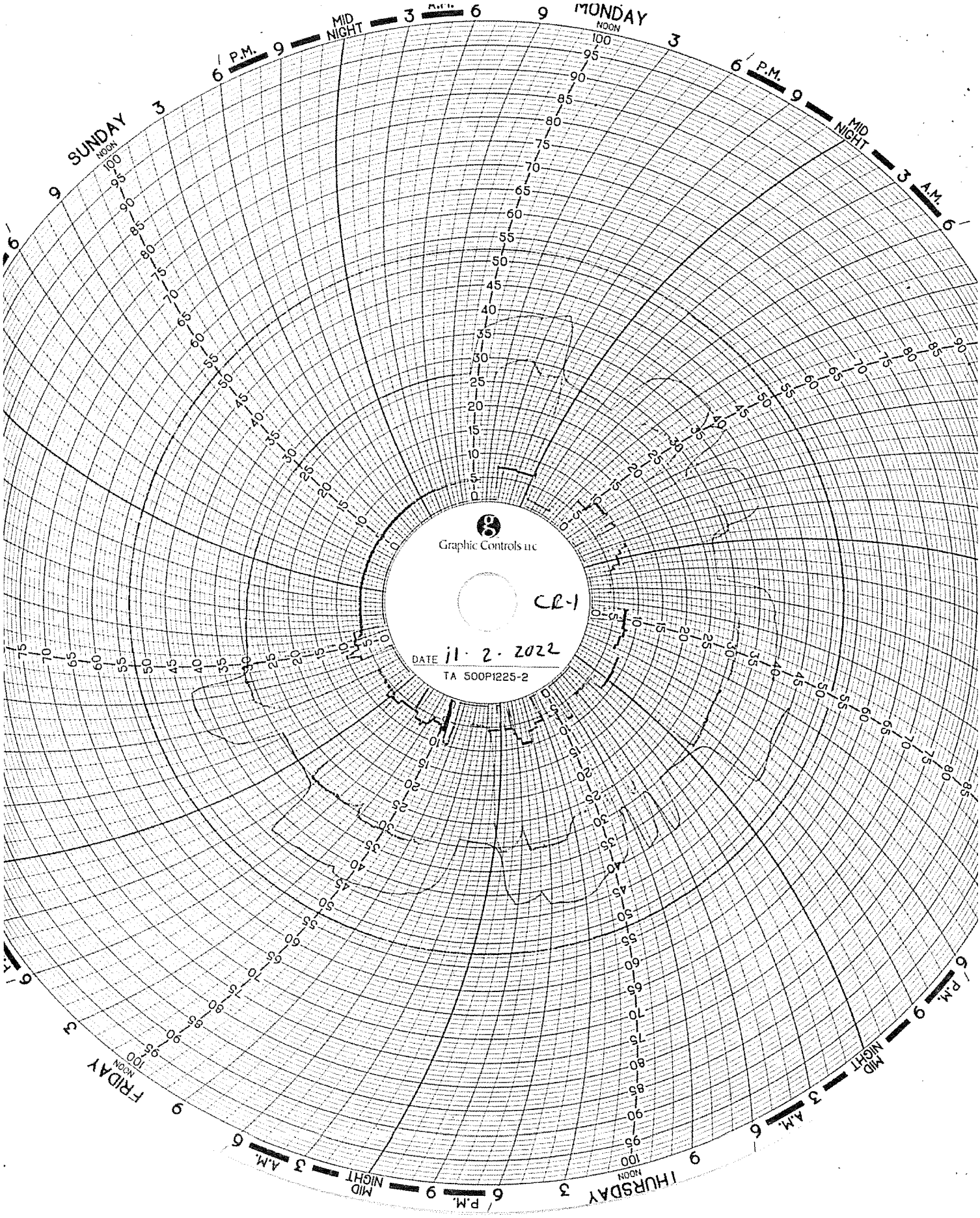
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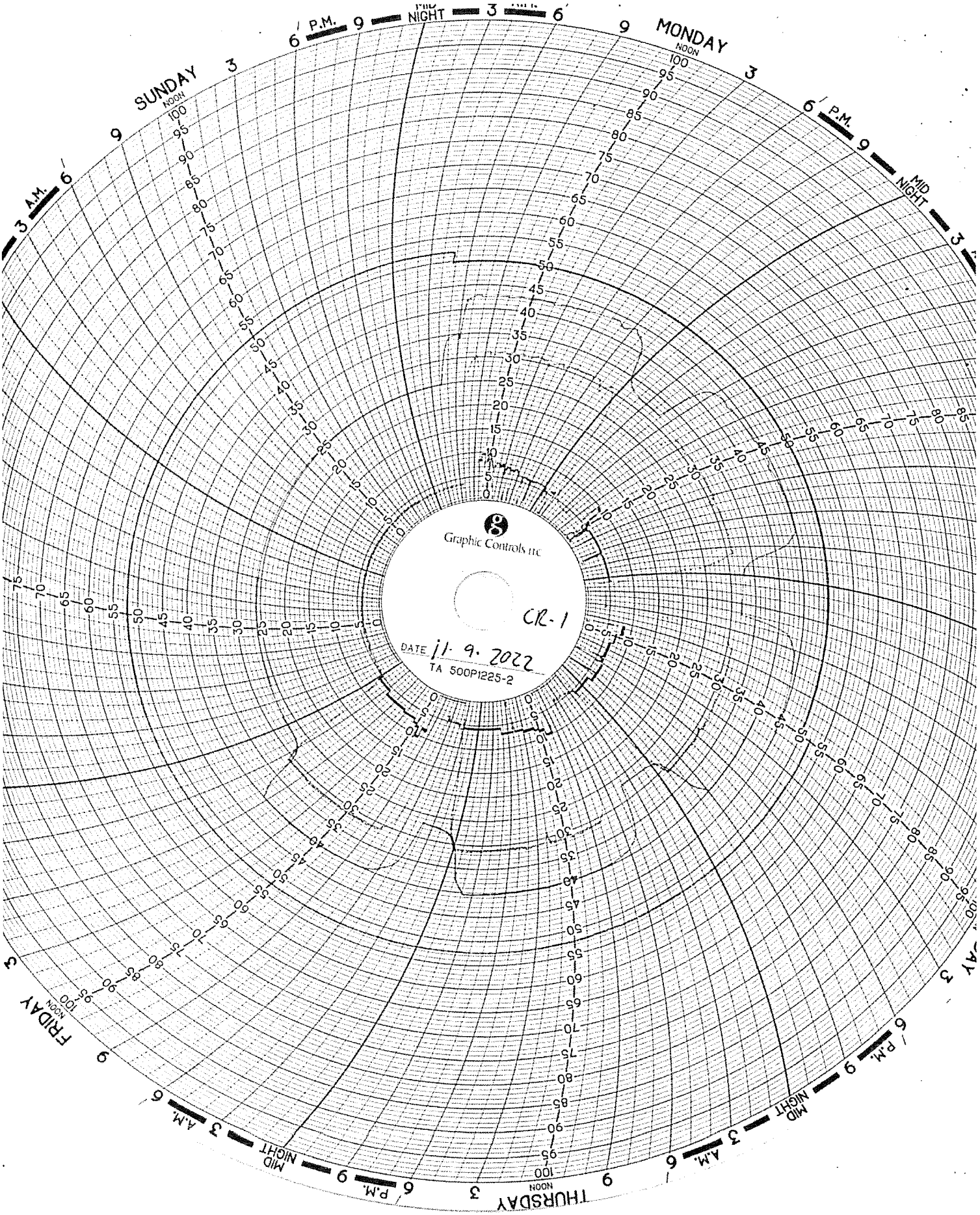
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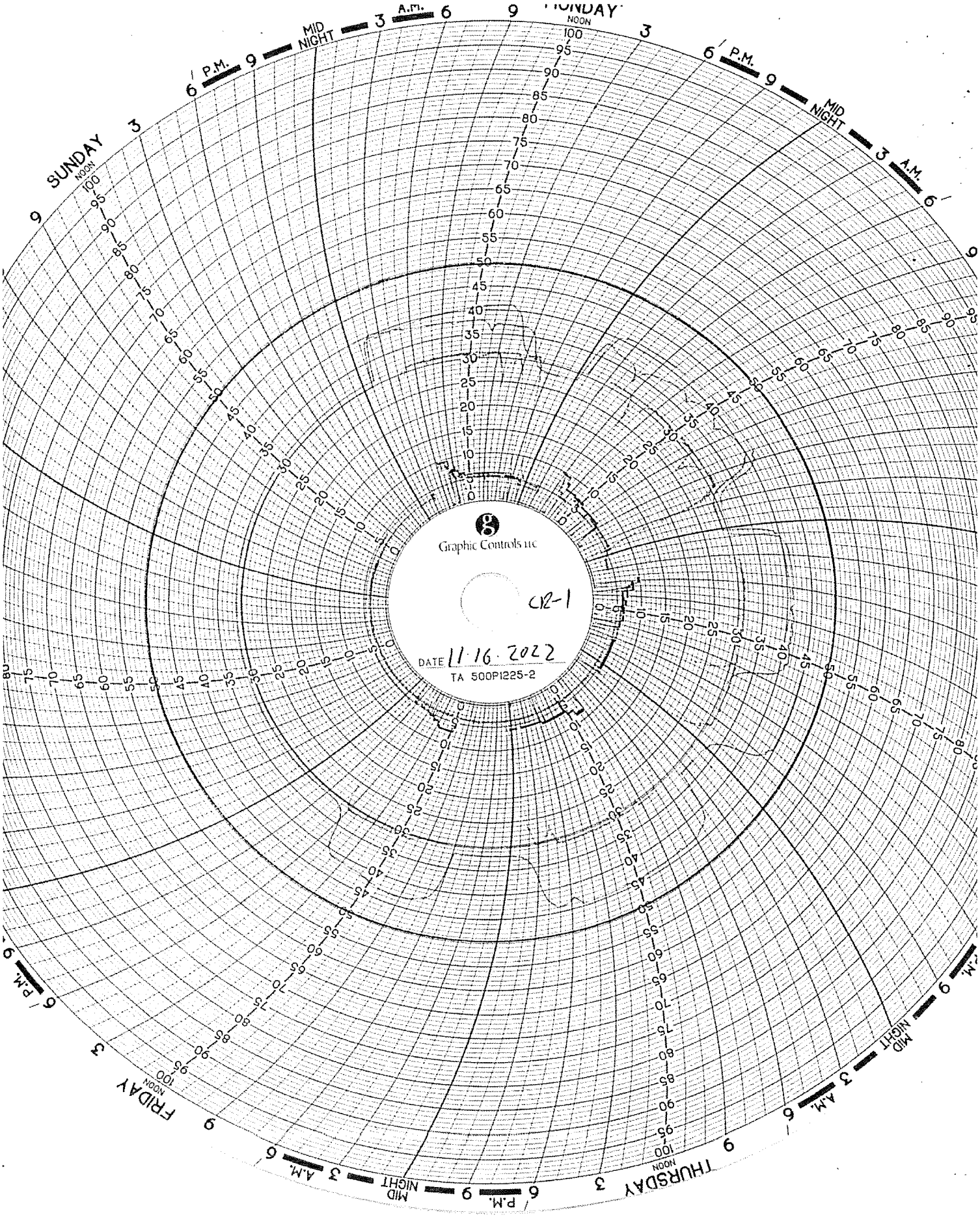
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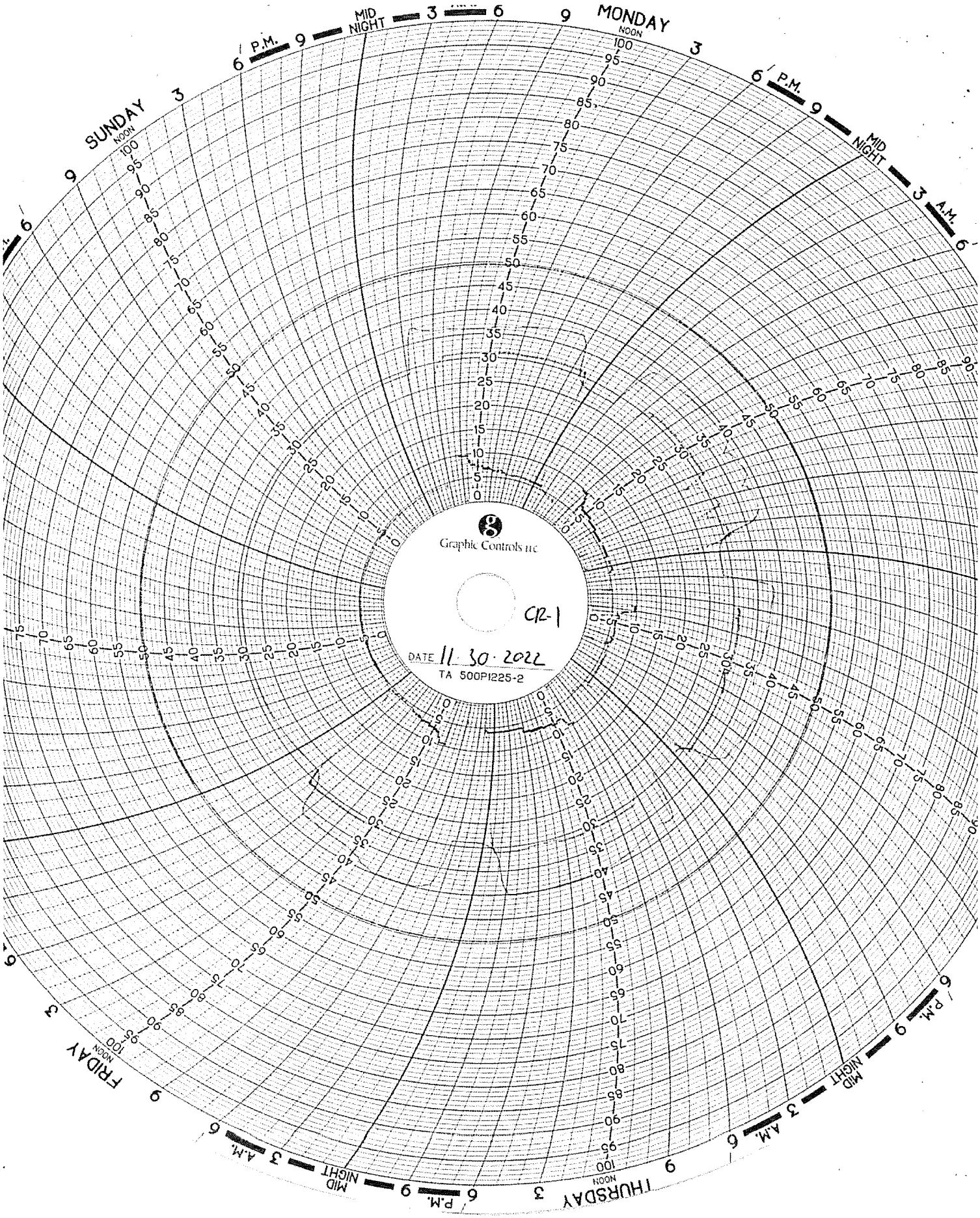
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WELL 2 DATA

REPUBLIC SERVICES

Injection Well 2, November 2022

	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
11/1/2022	147.5	941.5	31.6	31.7	1023.2	1580.5	2.3	9.0	0.0	47.3	514.4	894.9
11/2/2022	152.5	940.2	31.6	31.7	1069.1	1571.0	2.6	7.8	0.0	62.5	550.6	967.8
11/3/2022	162.8	949.0	31.5	31.7	1073.0	1,518.4	4.5	12.6	0.0	42.0	532.7	956.0
11/4/2022	126.6	945.6	31.6	31.7	1047.7	1,531.9	3.1	7.5	0.0	42.6	497.8	934.2
11/5/2022	161.8	939.5	31.7	31.7	1,046.1	1,489.6	3.1	7.3	0.0	49.8	533.9	933.9
11/6/2022	143.3	143.3	31.6	31.6	1013.0	1,013.0	6.7	6.7	0.0	0.0	869.7	869.7
11/7/2022	122.7	888.0	31.6	31.6	995.2	1,452.4	3.3	12.8	0.0	36.0	469.8	880.1
11/8/2022	52.0	939.3	31.5	31.6	996.8	1,426.0	3.5	9.2	0.0	43.3	421.3	962.6
11/9/2022	53.1	946.2	31.4	31.6	999.5	1,433.8	5.9	7.8	0.0	42.8	427.7	925.1
11/10/2022	135.4	939.7	31.5	31.7	1,016.3	1,440.6	6.1	7.5	0.0	42.9	462.9	884.9
11/11/2022	139.9	940.0	31.6	31.7	1,025.0	1,435.3	5.5	7.8	0.0	44.1	470.2	888.1
11/12/2022	117.4	191.3	31.4	31.7	987.9	1,059.4	6.9	7.2	0.0	0.0	867.8	883.6
11/13/2022	105.8	117.8	31.3	31.4	975.6	988.3	6.8	6.9	0.0	0.0	869.0	870.7
11/14/2022	103.1	949.7	31.3	31.4	973.2	1,330.7	2.7	9.1	0.0	43.2	339.9	870.5
11/15/2022	122.7	948.6	31.4	31.4	970.8	1,370.6	5.2	7.7	0.0	42.6	387.5	848.0
11/16/2022	125.6	940.2	31.4	31.4	981.9	1,374.1	6.4	8.0	0.0	37.4	408.7	856.9
11/17/2022	131.8	948.2	31.4	31.4	988.7	1,364.0	5.6	7.6	0.0	37.2	409.7	857.3
11/18/2022	115.4	945.6	31.3	31.4	980.9	1,326.2	3.4	7.6	0.0	37.0	309.5	864.5
11/19/2022	136.8	265.5	31.2	31.4	949.3	981.8	7.3	7.5	0.0	0.0	716.4	829.3
11/20/2022	127.3	137.2	31.2	31.3	963.4	966.1	7.4	7.4	0.0	0.0	828.6	836.5
11/21/2022	109.8	946.9	31.1	31.3	962.4	1,270.7	3.0	8.2	0.0	50.3	262.4	855.6
11/22/2022	113.0	939.5	31.2	31.4	937.7	1,281.0	6.0	8.0	0.0	46.1	325.9	832.0
11/23/2022	128.3	944.9	31.3	31.4	943.8	1,280.7	6.2	7.8	0.0	38.0	329.4	819.1
11/24/2022	112.5	146.5	31.3	31.4	942.8	949.6	7.1	7.4	0.0	0.0	797.2	836.8
11/25/2022	103.6	112.9	31.4	31.4	947.9	949.4	7.1	7.2	0.0	0.0	836.2	844.7
11/26/2022	98.6	104.1	31.3	31.4	947.0	948.4	7.1	7.2	0.0	0.0	844.0	848.8
11/27/2022	95.0	99.0	31.3	31.4	945.8	947.5	7.1	7.1	0.0	0.0	848.0	851.2
11/28/2022	93.1	939.8	31.3	31.4	945.2	1224.5	3.2	8.4	0.0	43.8	197.7	853.3
11/29/2022	128.2	947.7	31.4	31.4	871.4	1252.6	3.3	8.5	0.0	43.9	194.8	763.9
11/30/2022	124.3	949.0	31.4	31.4	916.9	1271.5	2.7	8.2	0.0	43.4	251.7	796.3

Circle Chart Index

Environmental Geo-Technologies, 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

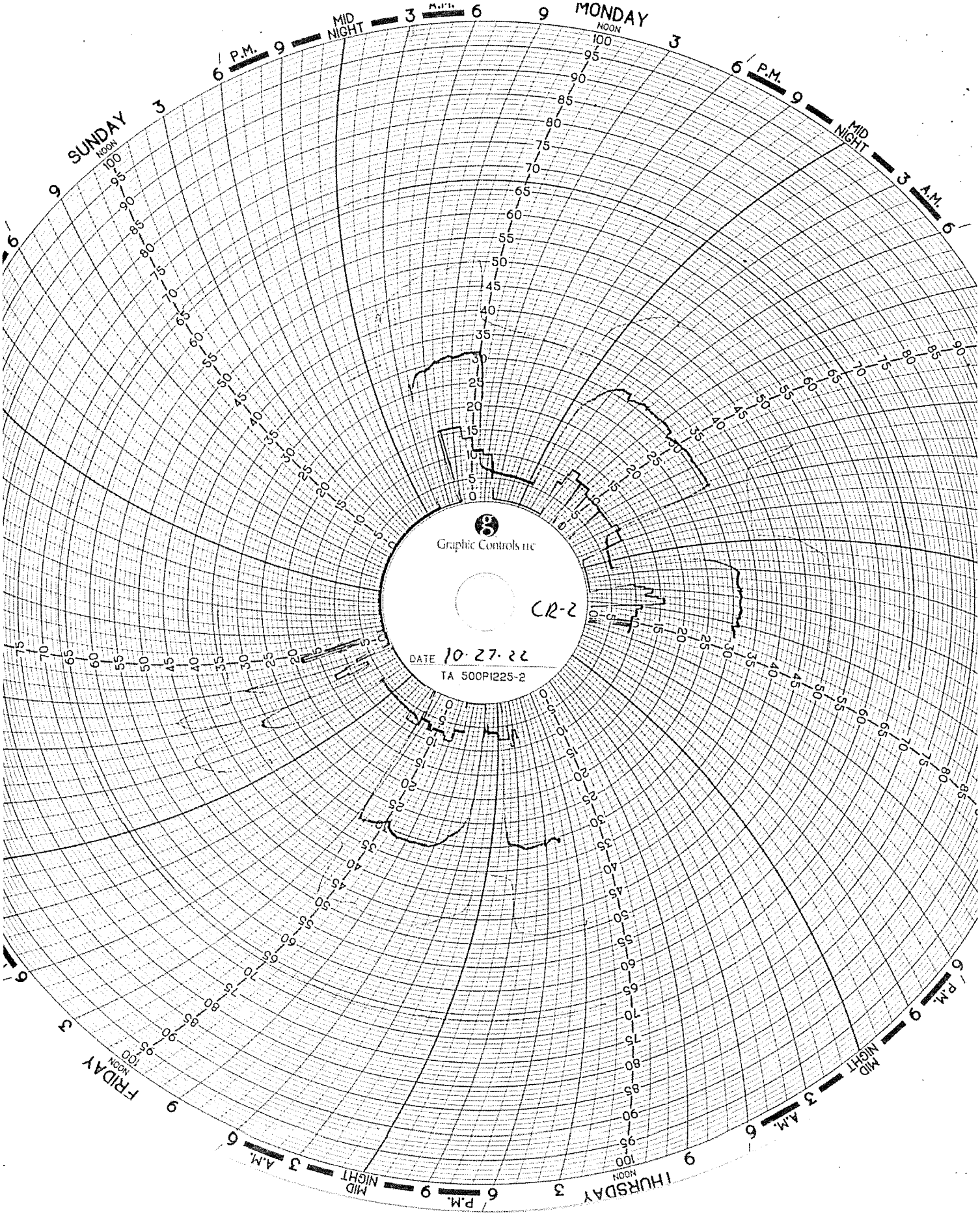
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)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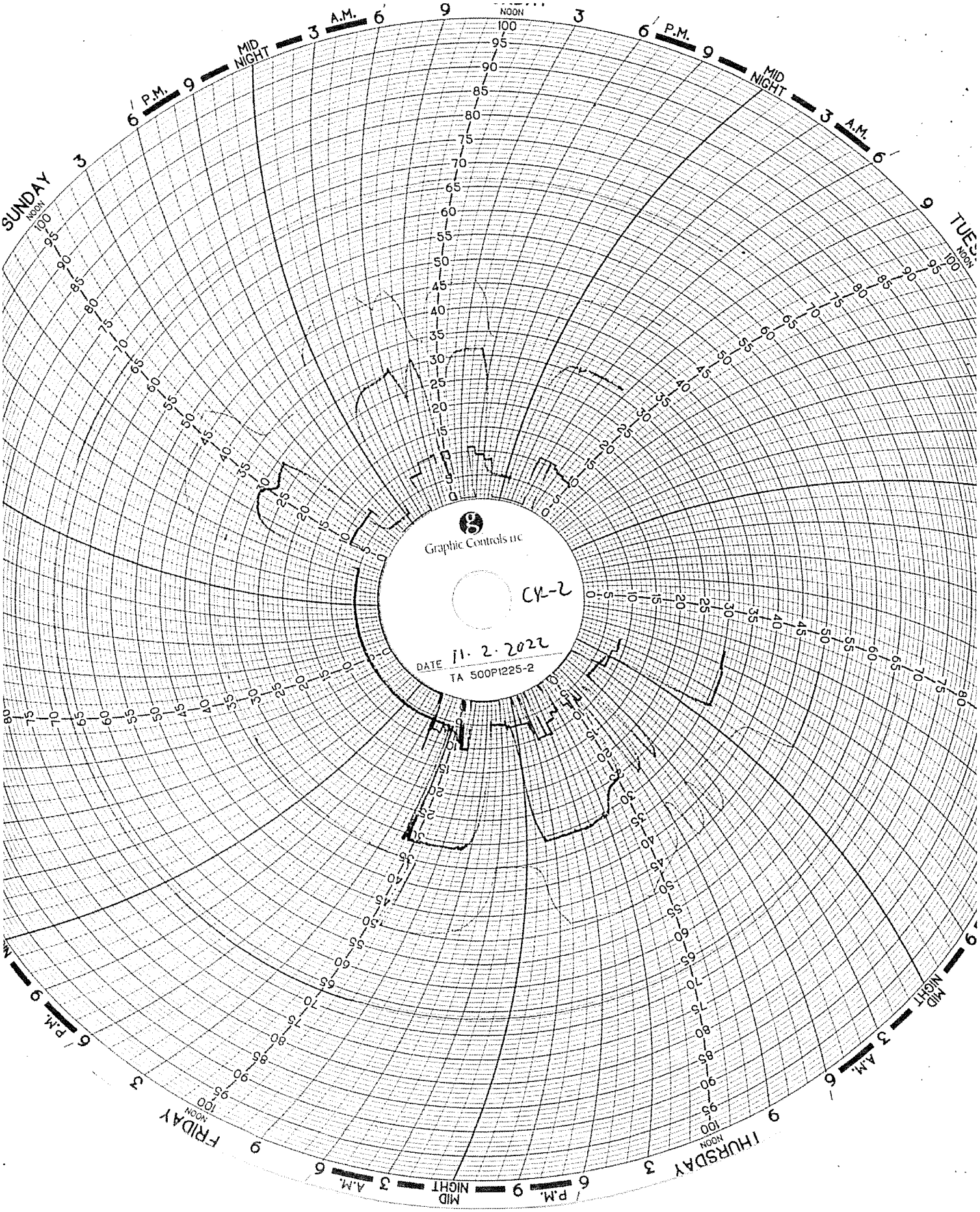
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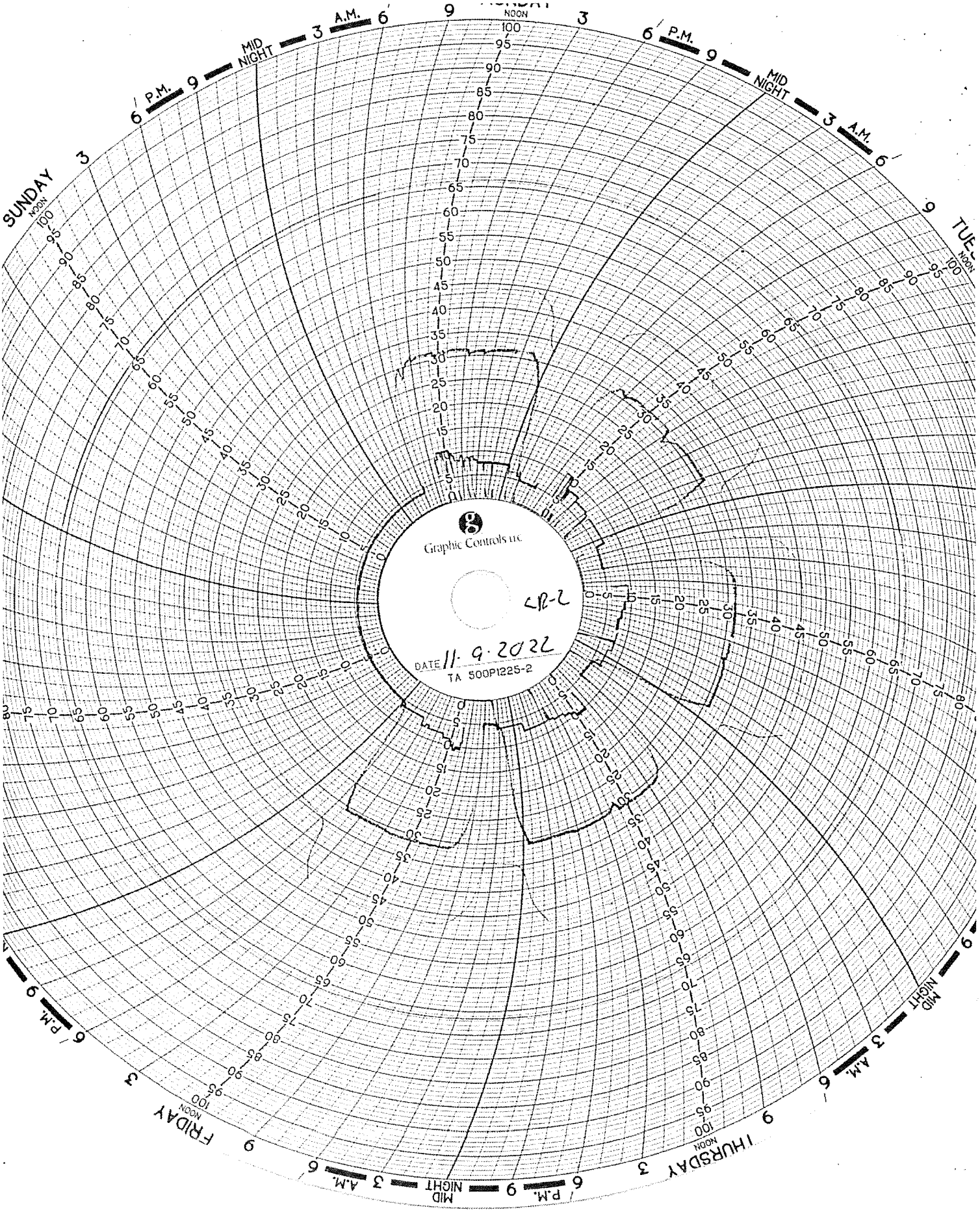
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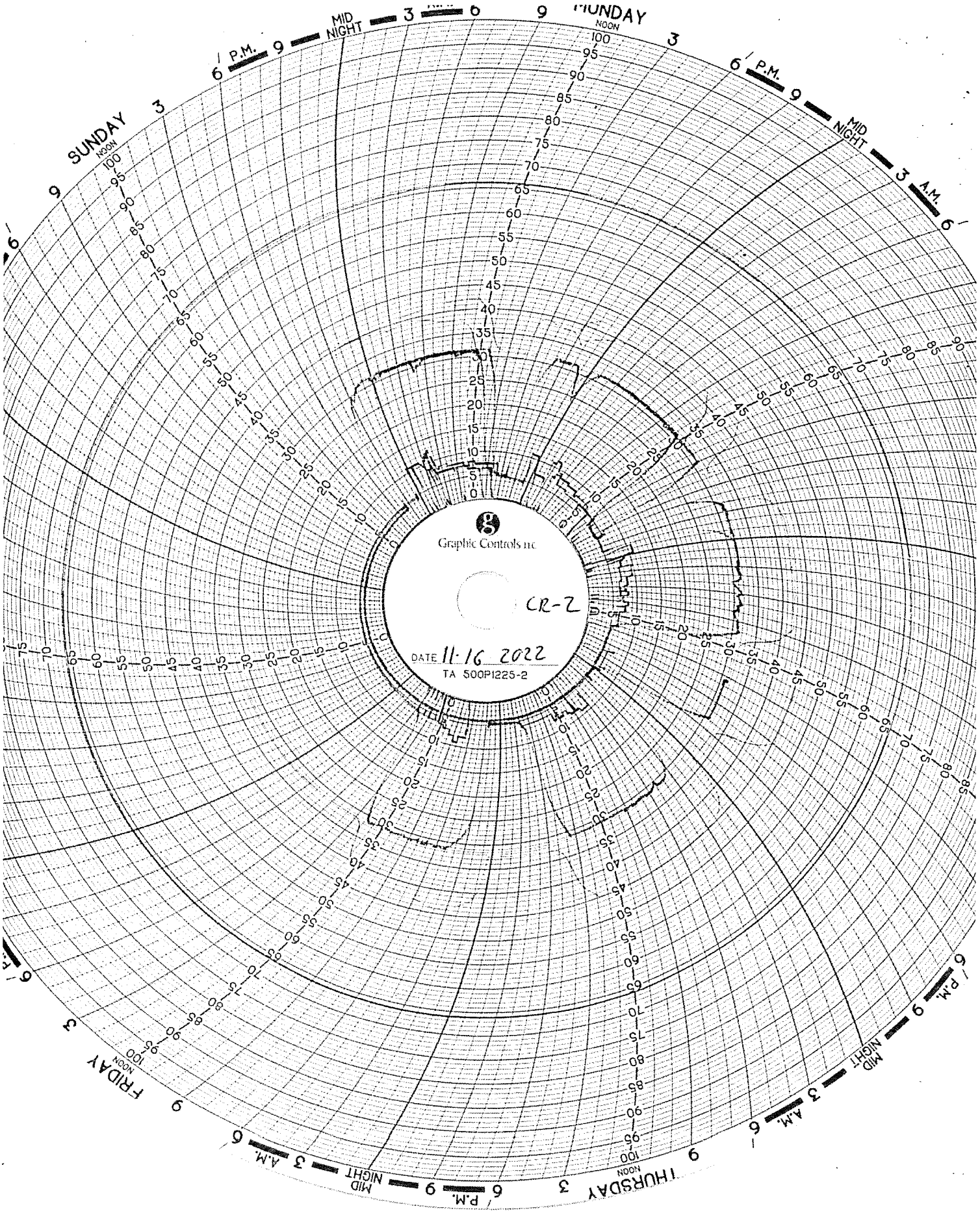
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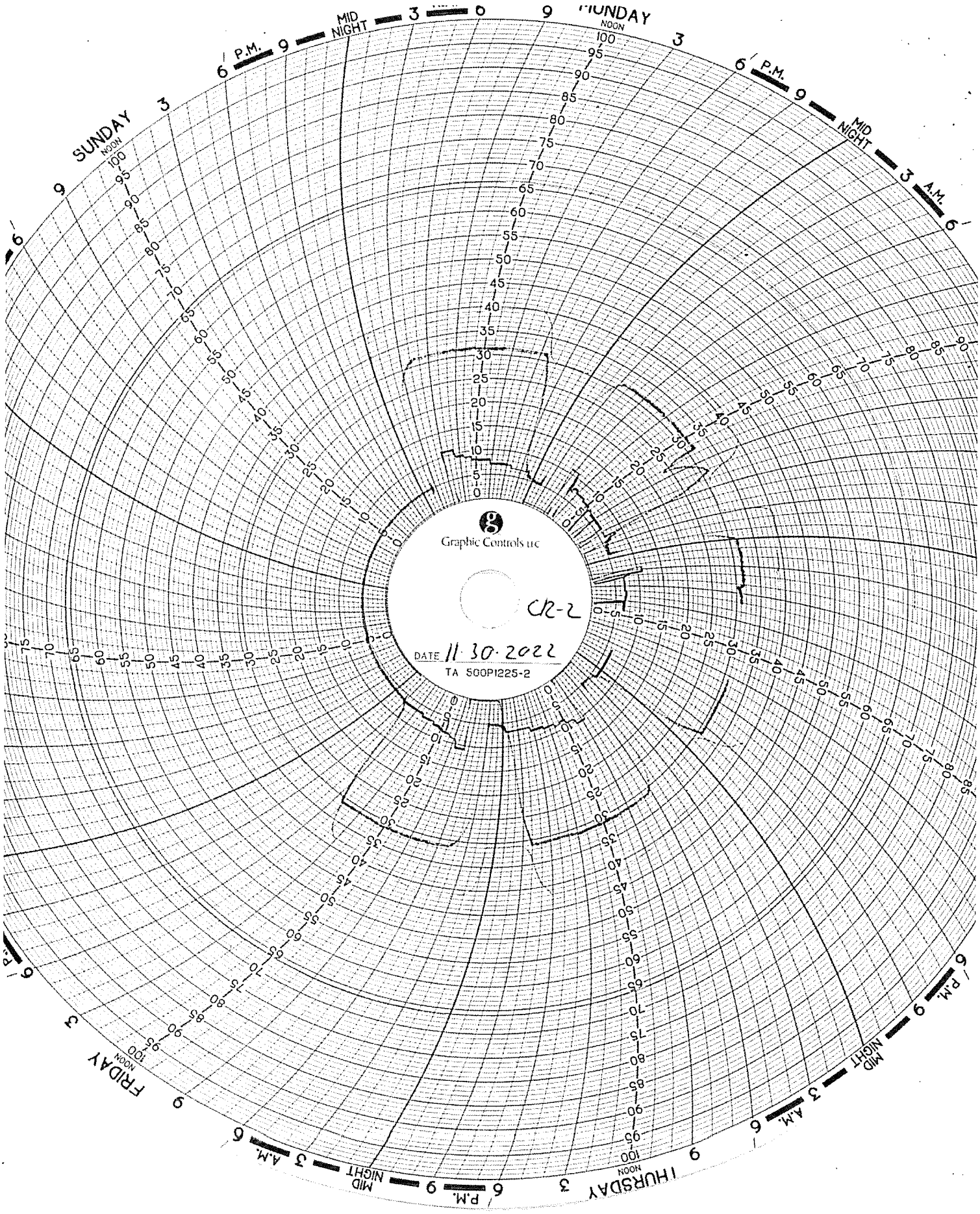
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Circle Chart Index

Environmental Geo-Technologies, 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

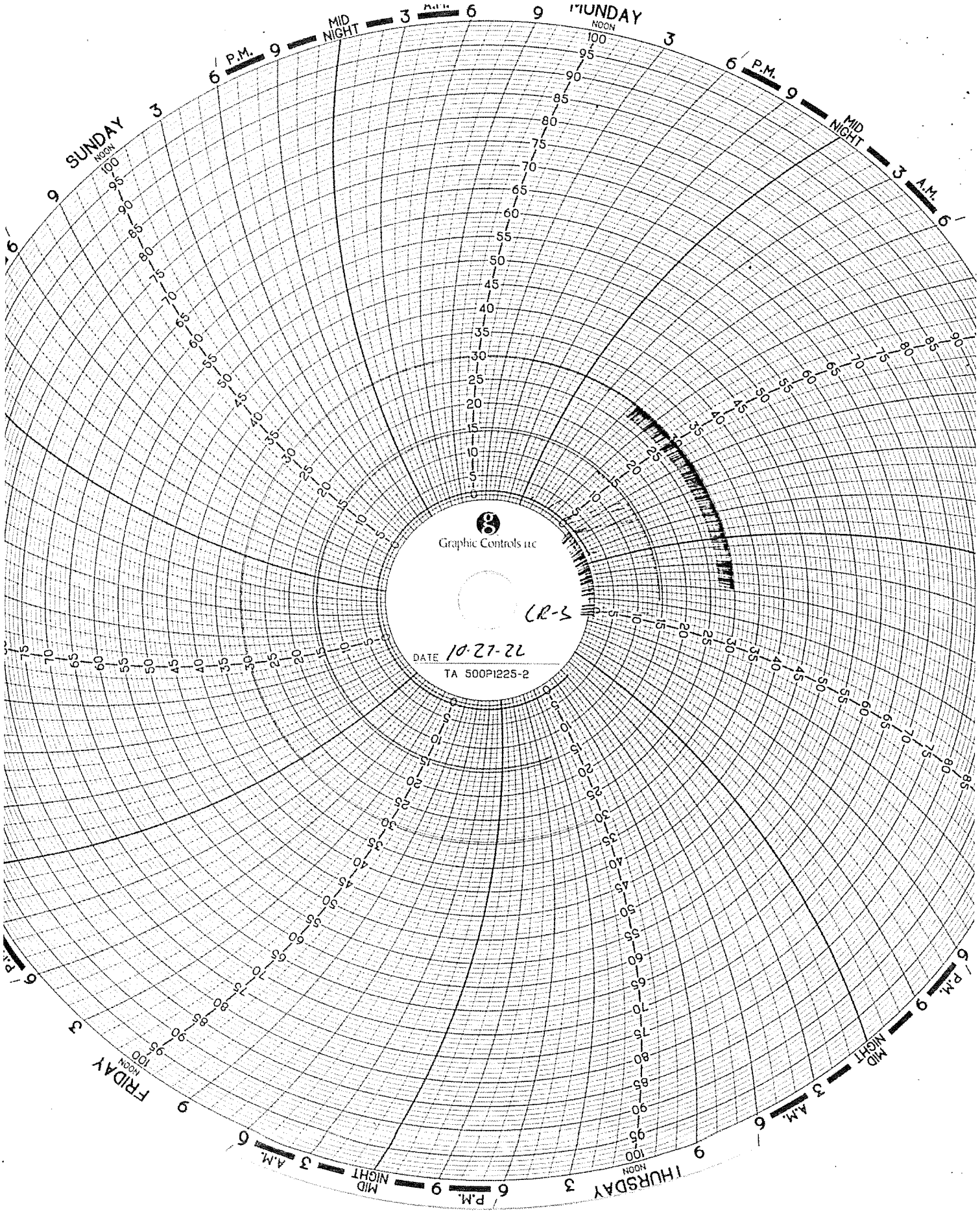
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)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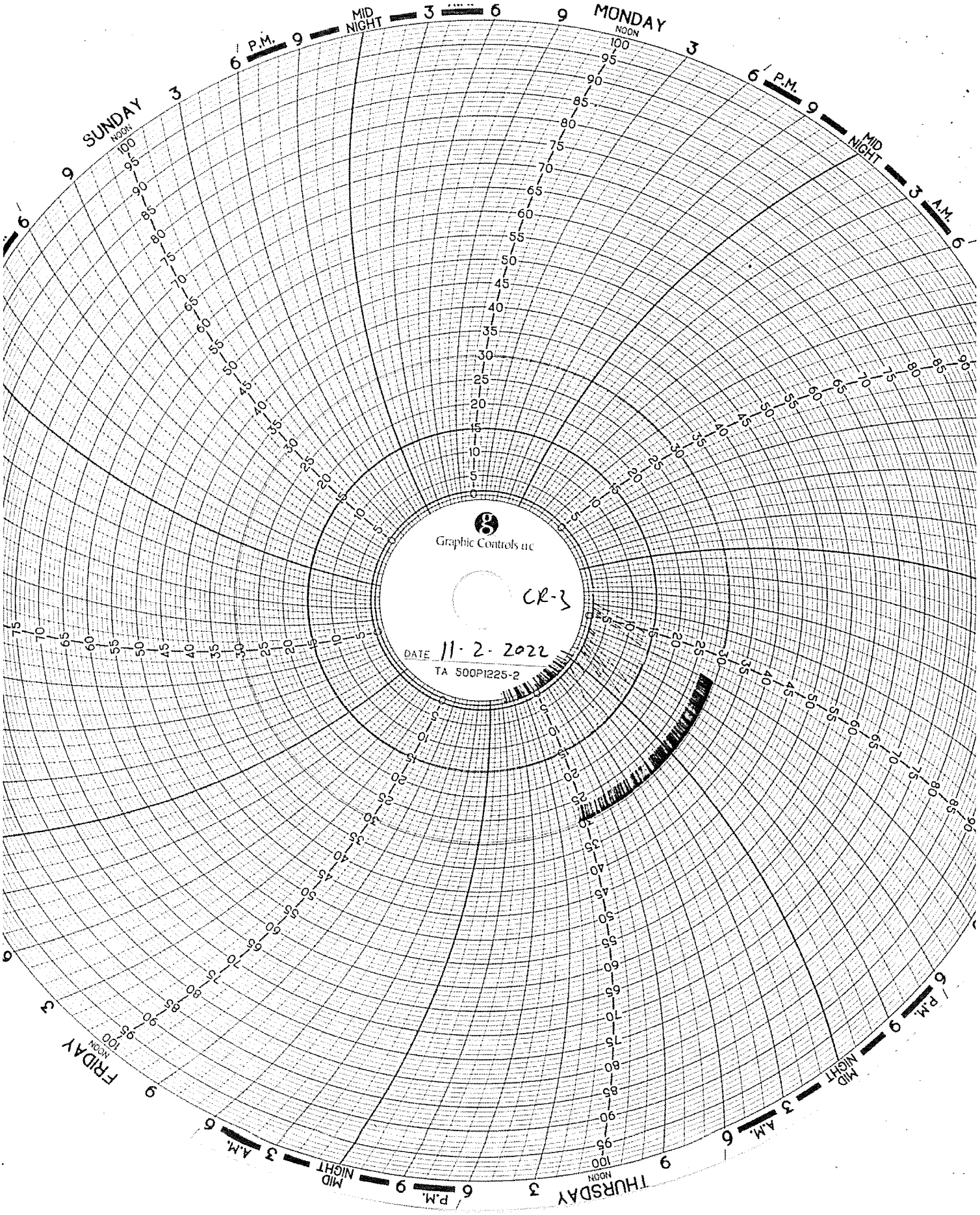
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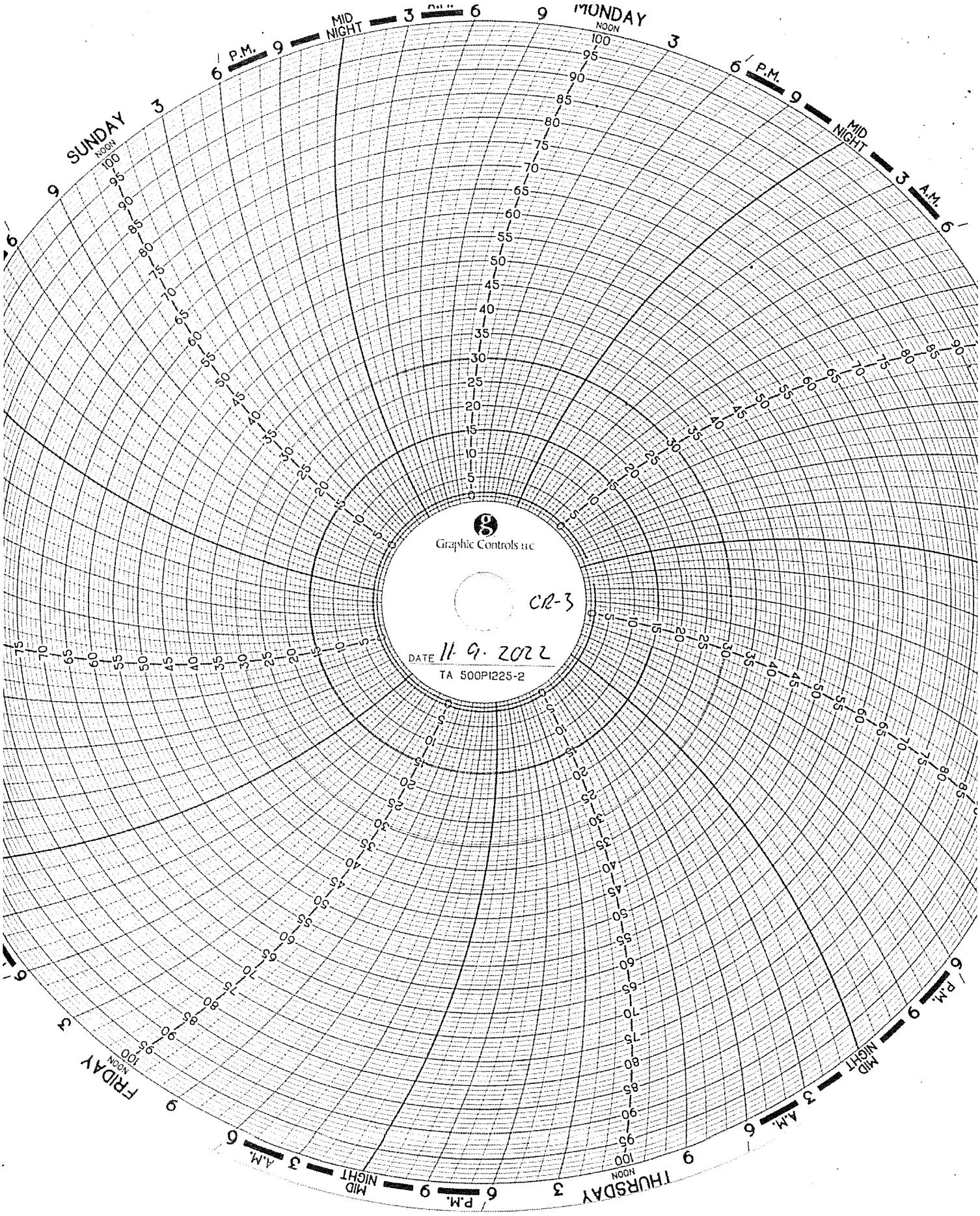
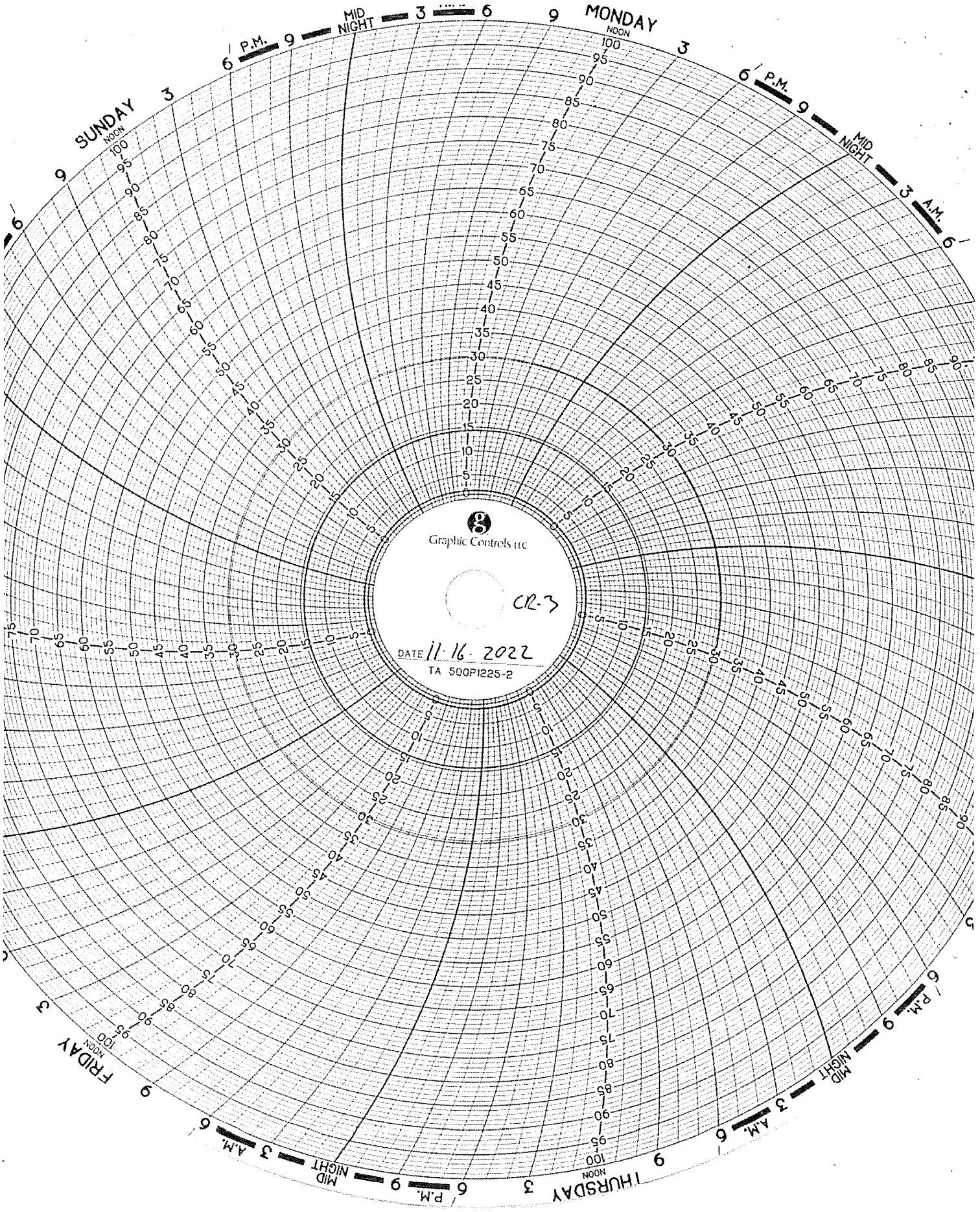
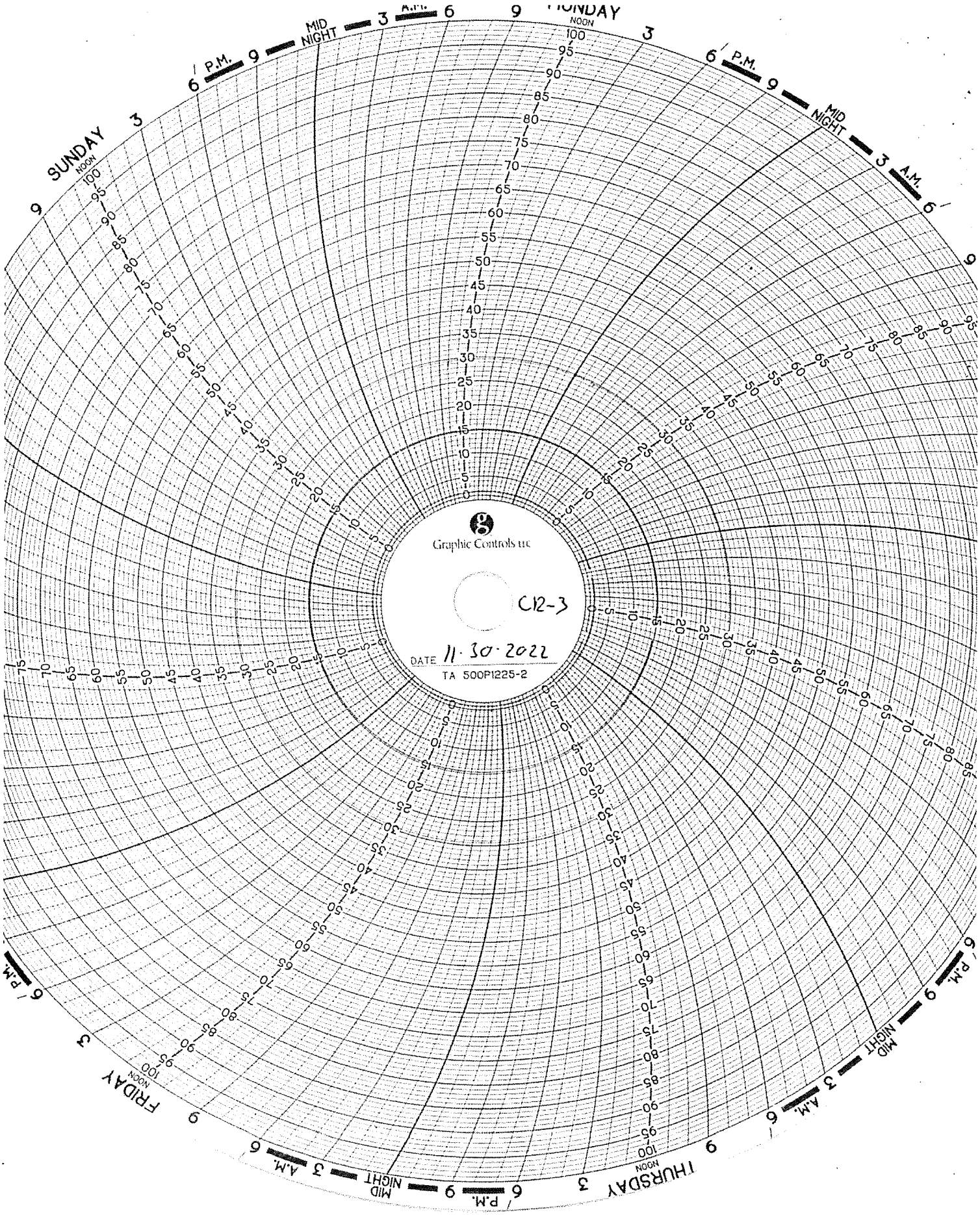
DATE 11-2-2022
TA 500P1225-2


SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
SATURDAY
NOON
MID NIGHT
A.M.
P.M.
Graphic Controls llc
CR-3
DATE 11.9.2022
TA 500P1225-2


SUNDAY
MONDAY
TUESDAY
WEDNESDAY
THURSDAY
FRIDAY
NOON
MID NIGHT
P.M.
A.M.
Graphic Controls LLC
CR-3
DATE 11-16-2022
TA 500P1225-2


SUNDAY
NOON
MONDAY
NOON
TUESDAY
NOON
WEDNESDAY
NOON
THURSDAY
NOON
FRIDAY
NOON
MID NIGHT
A.M.
P.M.
Graphic Controls LLC
C12-3
DATE 11-30-2022
TA 500P1225-2

CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

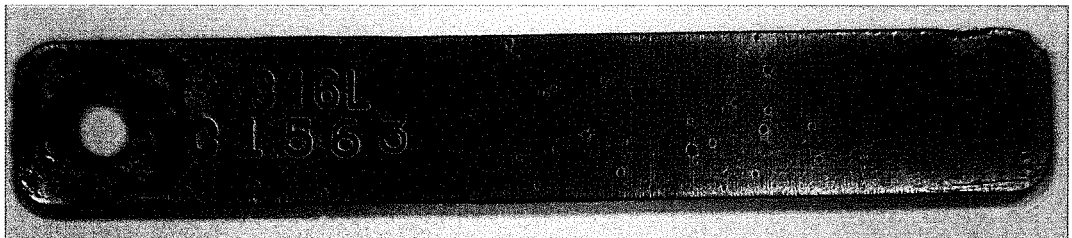
Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 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	
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	
3/18/2022	13.281g	9.368g	17.246g	

CORROSION MONITORING PLAN
COUPON SUMMARY

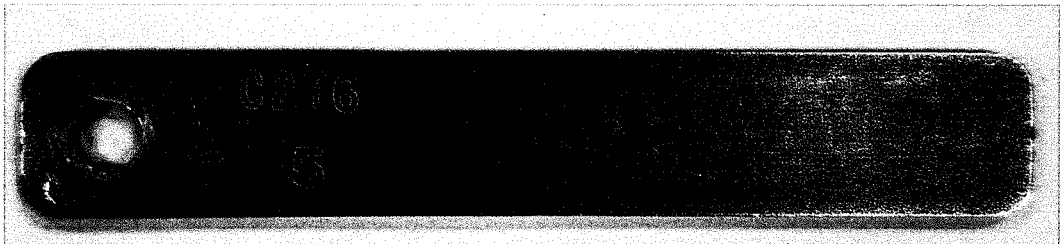
4/18/2022	13.275	9.339	16.656	
5/16/2022	13.298	9.328	16.600	
6/15/2022	13.276	9.300	16.219	
7/20/2022	13.303	9.324	16.393	
8/17/2022	13.277	9.195	15.841	
9/9/2022	13.276	9.171	15.757	
10/19/2022	13.274	9.157	15.623	
11/18/2022	13.274	9.145	15.801	



316L / C1563

Weight: 9.145

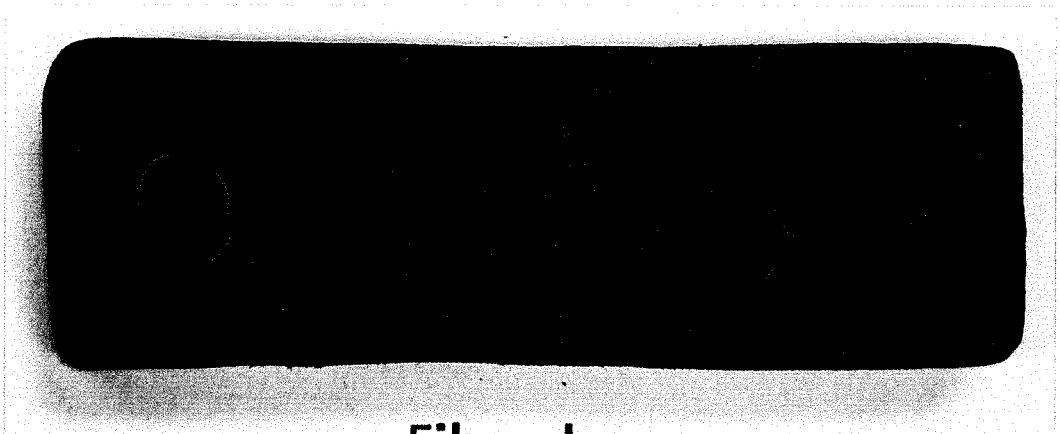
Date: 11/18/2022



C276 / 5

Weight: 13.274

Date: 11/18/2022



Fiberglass

Weight: 15.801

Date: 11/18/2022

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

November 2022

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: Serial Number: C1563 / 316L. No change to this coupon since last month. It is clean with a small amount of pitting.

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

The fiberglass coupon is Red Box 2000 type and is 2-1/2 inches long by 1/2 inch wide and 1/4 inches thick. It is a dark orange (rust) in color with a glossy shine on one side a polished look on the opposite side and the cut edges look sanded.

Hastelloy

The hastelloy coupon is identified as C276 with serial number 1. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Stainless Steel

The stainless steel coupon is identified as 316L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

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

ACCREDITED
A Testing Lab
*Certificate Numbers 255.01 & 255.02

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
ISO 9001:2008 Registered

ISO 9001:2008
Registered

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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

ACCREDITED
A Testing Lab
¹Certificate Numbers 255.01 & 255.02

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
ISO 9001:2008 Registered

ISO 9001:2008
Registered

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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

ACCREDITED
A Testing Lab
*Certificate Numbers 255.01 & 255.02

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
ISO 9001:2008 Registered

ISO 9001:2008
Registered

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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

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Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products.
The letters and reports and the name of Ghesquiere Plastic Testing, Inc., are not to be used under any circumstances in advertising to the general public.
Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

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

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval.
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Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

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

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval.
Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products.
The letters and reports and the name of Ghesquiere Plastic Testing, Inc., are not to be used under any circumstances in advertising to the general public.
Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

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

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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
(print or type name)

Date: 01/12/2021

BARCOL HARDNESS REPORT

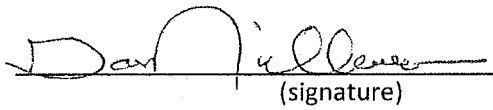
Customer: Republic Industrial and Energy Solutions, LLC

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

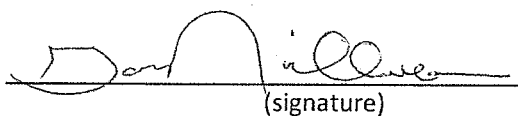
Customer: Republic Industrial and Energy Solutions

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 **Date:** 08/23/2022
(print or type name)

MAINTENANCE

UIC Monthly Maintenance Log

No Maintainance this month

INJECTION FINGERPRINTS

In reviewing the November 2022 injection fingerprints, RIES operations personnel discovered that twelve (12) injection fingerprints are not included in the November 2022 monthly report. The missing injection fingerprints are:

11032201
11042203
11082202
11092201
11102201
11112201
11112202
11142201
11142202
11212201
11212202
11222203

Corrective actions to prevent this from occurring in the future include additional training for operations personnel responsible for obtaining and recording the fingerprints and reinforcing the gravity of accurate reporting. This issue has been discussed as part of RIES management daily meetings to ensure that injection fingerprints are up to date and complete.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 1 / 22
Receiving ID#	IN1220|
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.T
Sampled by	

LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	8.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.2
Conductivity	4.48
% Solids	
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/1/22
Receiving ID#	I1101 2209
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.87
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.7
Conductivity	17.15
% Solids	0.15
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/1/22
Receiving ID# O.H	~~I 110222~~ I 110122 03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.R
Sampled by	O

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.7
Conductivity	124.0
% Solids	0.86
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/01/22
Receiving ID#	R11012204
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BA

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.5
Conductivity	0.244
% Solids	3.37
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/2/22
Receiving ID#	I1102203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.4
Conductivity	9.97 mS
% Solids	0.37
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/02/22
Receiving ID#	R1102220 4
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	BD

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.10
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.5
Conductivity	5.09 mS
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/2/22
Receiving ID#	I1102220S
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.J
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	4.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	13.14
% Solids	0.60
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/03/22
Receiving ID#	X110322.02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BB

LAB. INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.22
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.9
Conductivity	20.7 mS
% Solids	1.03
Turbidity	Yes No
Color	
TSS (%)	<01
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/03/22
Receiving ID#	I110322-03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.5
Conductivity	19.68
% Solids	0.24
Turbidity	Yes No
Color	
TSS (%)	<30
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/04/22
Receiving ID#	I1104220 1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	SA
Sampled by	DM

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	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.5
Conductivity	9.54
% Solids	0.86
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/4/22
Receiving ID#	I1104222-02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.9
Conductivity	6.88
% Solids	
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	J.M

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/4/22
Receiving ID#	I 110422004
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.42
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.7
Conductivity	6.58 ms
% Solids	0.34
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/6/22
Receiving ID#	I1105220i
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JTP
Sampled by	DM

LAB INFORMATION		
Compatible? (RT#)		
PCBs (ppm) (Oily Waste Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	6.36	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.00	
Physical Description		
Stream Consistency	Yes No	
Oil in Sample?	Yes No	
Temperature (F)	69.1	
Conductivity 5.18mS	~~1.307 mS~~	JTP
% Solids	0.18	
Turbidity	Yes No	
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	JTP	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/5/22
Receiving ID#	21105-2202
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.1
Conductivity	8.85 mS
% Solids	0.25
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	SJ

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/7/22
Receiving ID#	I1107220
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	DS

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	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.6
Conductivity	10.56 mS
% Solids	20.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/7/22
Receiving ID#	I1107222 02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

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	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.6
Conductivity	51.3 mS
% Solids	7.22
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 8 / 22
Receiving ID#	I1108,2201
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	DM

LAB INFORMATION		
Compatible? (RT#)		
PCBs (ppm) (Oily Waste Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	7.91 ~~5.97~~	J.H
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.06	
Physical Description		
Stream Consistency	Yes No	
Oil in Sample?	Yes No	
Temperature (F)	71.7	
Conductivity	60.7	
% Solids	2.10	
Turbidity	Yes No	
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	J.H	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/8/22
Receiving ID#	E11082203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.6
Conductivity	26.3 mS
% Solids	1.02
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/9/22
Receiving ID#	IN092202
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DH
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.7
Conductivity	34.9 mc
% Solids	1.83
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/9/22
Receiving ID#	I11092203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.5
Conductivity	36.1 mS
% Solids	2.07
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/9/22
Receiving ID#	I1109 2204
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.2
Conductivity	35.608
% Solids	2.11
Turbidity	Yes No
Color	
TSS (%)	<01
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/10/22
Receiving ID#	I1102262
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	NF

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.49
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.8
Conductivity	35.2 mS
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	<01
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/10/22
Receiving ID#	I11022203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JAT
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	35.6mS
% Solids	2.31
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/16/22
Receiving ID#	R1110220 4
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(J.T)
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.3
Conductivity	36.5 mS
% Solids	2.27
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/4/22
Receiving ID#	R1111 2203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.79
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.4
Conductivity	36.7 ms
% Solids	2.27
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 /14 /22
Receiving ID#	I1114 2203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T)
Sampled by	

LAB INFORMATION	
Compatible? (RT# 6)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	8.96
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.00
Physical Description	liquid
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	63.2
Conductivity	4.26
% Solids	<0.1
Turbidity	Yes (No)
Color	Colorless
TSS (%)	<0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/18/22
Receiving ID# J.J	~~I1115220?~~ ~~I1142203~~ I1115220 1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DM

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	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.9
Conductivity	19.73
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.J

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/15/22
Receiving ID#	I1115220-2
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.58
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.9
Conductivity	34.8 mS
% Solids	1.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/15/22
Receiving ID#	R11152203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BD

LAB. INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.5
Conductivity	35.3 mS
% Solids	1.89
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/16/22
Receiving ID#	I1116220i
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

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	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.3
Conductivity	34.7 mS
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/16/22
Receiving ID#	I1116220Z
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.6
Conductivity	34.7 mS
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/16/22
Receiving ID#	I11622O3
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AV

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.9
Conductivity	35.3 mS
% Solids	1.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 17 / 22
Receiving ID#	I1117 2201
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.)	6.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.7
Conductivity	33.5
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	2.04
Radiation Screen (as needed)	
Lab Signature/Initials	S.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/17/22
Receiving ID#	I111722 07
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	JM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.9
Conductivity	32.1 mS
% Solids	1.78
Turbidity	(Yes) No
Color	Brown
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/17/22
Receiving ID#	I1117220S
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	AW

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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	66.1
Conductivity	35.1 mS
% Solids	0.19
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/18/22
Receiving ID#	I111822.01
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	C

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.7
Conductivity	33.3 mS
% Solids	1.76
Turbidity	Yes No
Color	
TSS (%)	<0.4
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/18/22
Receiving ID#	I1118 2202
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T
Sampled by	JT

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.5
Conductivity	25.6 mS
% Solids	1.08
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/18/22
Receiving ID#	I 11182203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AV

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.31
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	35.4
% Solids	0.693
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	AV

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/21/22
Receiving ID#	I112122 03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	MW

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)	61.2
Conductivity	33.2
% Solids	1.71
Turbidity	Yes (No)
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	MW

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/22/22
Receiving ID#	I1122201
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H
Sampled by	NE

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.61
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59
Conductivity	35
% Solids	.81%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	NE

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 /22 / 22
Receiving ID#	I11228802
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	NE
Sampled by	NE

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60°
Conductivity	36.3
% Solids	1.96%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed) Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/22/22
Receiving ID#	I1122204
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.71
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69.5
Conductivity	36.7 mS
% Solids	1.96
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/23/22
Receiving ID#	FI123220
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.A.
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68.4
Conductivity	36.2mS
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.A.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/23/22
Receiving ID#	IH232202
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.2
Conductivity	34.9mS
% Solids	1.68
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/23/22
Receiving ID#	E11232203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	AV

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67.1
Conductivity	36.1mS
% Solids	1.79
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/28/22
Receiving ID#	[redacted]1282201
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	NE
Sampled by	NE

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)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58
Conductivity	34.9
% Solids	2.61
Turbidity	Yes No
Color	
TSS (%)	LD.1
Radiation Screen (as needed)	
Lab Signature/Initials	JF

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/28/22
Receiving ID#	I112822-02
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	N.H.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	7.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.7
Conductivity	15.33 ms
% Solids	0.65
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/28/22
Receiving ID#	R11282203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.52
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.8
Conductivity	10.11
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 /29 /22
Receiving ID#	T1129220 1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	NE
Sampled by	NE

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	11
% Solids	45%
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/29/22
Receiving ID#	I112922-02 SST-1
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.18
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.3
Conductivity	26.3 mS
% Solids	1.41
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	O.R

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/29-2022
Receiving ID#	R11292203
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	74.2
Conductivity	31.4 mS
% Solids	1.99
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/30/22
Receiving ID#	I11302901
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	NE
Sampled by	NE

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.19
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61°
Conductivity	33
% Solids	1.6%
Turbidity	Yes No
Color	
TSS (%)	(0.)
Radiation Screen (as needed)	
Lab Signature/Initials	NE

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11 / 30 / 22
Receiving ID#	I11302202
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	NE
Sampled by	NE

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	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62°
Conductivity	33.9
% Solids	1.87%
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	NE

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/30/22
Receiving ID#	I113022.03
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.8
Conductivity	28.3 mS
% Solids	1.06
Turbidity	Yes No
Color	
TSS (%)	46.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/30/22
Receiving ID#	E11302204
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.8
Conductivity	9.89 mS
% Solids	0.36
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

WASTE PROFILES

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 64402215272	**Expiration Date** 10/25/2023	
I. Decision Request:	☑ **Initial** ☐ **Recertification** ☐ **Change**		
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: WOODARD			
Generator Site Address: 210 S. DELANEY RD			
City: OWOSSO	**County:**	**State:** MI	**Zip:**
Name of Waste: HEAT EXCHANGER CLEANING RINSE WATER			
Estimated Annual Volume: 4000 Gallons			

II. Special Waste Department Decision: ◉ **Approved** ○ **Rejected**

Management Method(s): ☐ Landfill ☐ Solidification ☐ Bioremediation ☑ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: Stephen L. Brown **Name (Printed):** Stephen Brown

Date: 11/3/2022

III. Facility Decision: ● **Approved** ○ **Rejected**

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: John Frost **Name (Printed):** JOHN FROST

Date: 11-8-22 JKF

Republic Industrial and Energy Solutions, LLC
28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # 64402215272

GENERATOR INFORMATION

Name: Woodard USEPA ID # MIR000014373

Facility Address: 210 S. Delaney Rd SIC/NAICS Code: State Code: 337110

City: Owosso State: MI Zip Code: 48867

Contact: Steve Inhulsen Title: _____ Phone: (989) 725-4452 Fax: ( ) _____

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: ERG Environmental Services

Address: 13040 Merriman Road

City: Livonia State: _____ Zip Code: _____

Attention: Accounts Payable Title: _____ Phone: (734) 437-9650 Fax: (734) 437-7651

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Heat Exchanger Cleaning Rinse Water

Process Generating Waste (Please *be specific, incomplete information may delay the approval process):*
~~Rinse Water generated from the cleaning of a zinc phosphating heat exchanger.~~

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☑ Non Hazardous Liquid Industrial Waste ☐ Hazardous Waste
2. Regulated by TSCA? ☐Yes ☑No (PCBs, etc.)
3. List ALL Applicable Waste Codes: _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☑ White/Clear	☐ 0-1 % ☐ 3-5 %	☐ Multi layered	☐ <0.8 ☑ 1.0 — 1.2	
☐ Black/Brown	☑ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 — 1.0 ☐ 1.3 — 1.4	
☑ Other		☑ Single Phase	Exact / Other	

pH: ☐NA ☐ < 2 ☑ 2 — 4 ☐ 4 — 6 ☐ 6 — 8 ☐ 8-10 ☐ 10 — 12.5 ☐ >12.5

Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☑ >200°F ☐ None ☑ Closed Cup ☐ Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - *MUST BE EQUAL TO* OR *GREATER THAN 100% (LIST EACH CONSTITUENT <>1= 0.1%)*

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
~~Heat Exchanger Acid Cleaner~~	1	2	%				%
Bonderite Zinc Phosphate	1	5	%				%
Water	93	98	%				%

Metals: Indicate if this waste contains any of the following metals
If Generator knowledge-provide backup ☑ Lab Analysis ☑ Generator Knowledge ☑ TCLP ☐ TOTAL

	Not Present	Concentration		Not Present	Concentration					
PCB	☑	ppm	Aromatic Amine	☑	ppm	Arsenic (As)	D004	☑ <5	ppm	ppm
Dioxins	☑	ppm	Pesticides	☑	ppm	Barium (Ba)	D005	☑ <100	ppm	ppm
Cyanides Reactive	☑	ppm	Rodenticides	☑	ppm	Cadmium (Cd)	D006	☑ <1	ppm	ppm
Cyanides Total	☑	ppm	Fungicides	☑	ppm	Chromium (Cr)	D007	☑ <5	ppm	ppm
Sulfides Reactive	☑	ppm				Lead (Pb)	D008	☑ <5	ppm	ppm
Sulfides Total	☑	ppm				Mercury (Hg)	D009	☑ <0.2	ppm	ppm
						Selenium (Se)	D010	☑ <1	ppm	ppm
						Silver (Ag)	D011	☑ <5	ppm	ppm

TCLP Organics D012 — D043 above regulatory limits: Present ☐ Not Present ☑

IS WASTE ANY OF THE FOLLOWING? *At Least One Box Must Be Checked.*

☐ Radioactive ☐ Water Reactive ☐ Oxidizer ☐ Shock Sensitive ☐ Reactive (other) ☐ DOT Explosives
☐ NIOSH Human-Positive Carcinogens ☐ NESHAP Wastes (Benzene, etc.) ☐ Biological ☑ None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☐ Yes ☑ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name Non-DOT, Non-RCRA Regulated Hazard Class _____ UN/NA _____

PG _____ ERG _____ Hazardous Constituents for "n.o.s." _____

4. Method of Shipment: ☑ Bulk Tanker ☑ Vac truck ☐ Rail Car ☐ Drums ☑ Totes
5. Number of Units to Ship Now 3 - 4,000 gal 6. Anticipated Volume / Units per Year: 3-4,000 gal or ☑ One Time
6. Special Handling Requirements including PPE:

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein.

If this box is checked ☑ I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Steve Inhotsen Title: Production Manager

Generator's Signature: Steve Inhotsen Date: 10-25-22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quartsample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. Grab — SAMPLING METHOD
2. Tank — COLLECTION POINT
3. Chas Petersen — SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

Sample ID: 1 - Zinc Stages Descale
SDSs: Bonderite Zinc Phosphate
Heat Exchanger Acid Cleaner

4. Sample No. 1 - Zinc stages descale Preservation: Yes ☐ No ☑
5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

Relinquished by: (Signature)	*Date*	*Time*	Received by: (Signature)	Date	Time

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/21/22
Receiving ID#	Heat Ex Cleaning Rinse Water
Manifest # Line	
Land Ban Cert included	Yes / No
EGT Approval #	
Generator	Woodard
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.20
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)	72.7
Conductivity	33.9 mS
% Solids	3.46
Turbidity	Yes (No)
Color	Colorless
TSS (%)	<0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	J.H

REPUBLIC SERVICES

Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile #	Expiration Date	
	64402215323	10/19/2023	

I. Decision Request: ☑ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: ENVIRONMENTAL ENTERPRISES INC

Generator Site Address: 4650 SPRING GROVE AVENUE

City: CINNCINNATI **County:** **State:** OH **Zip:**

Name of Waste: SCRUBBING BUBBLES DISINFECTANT ROOM CLEANER LIQUID

Estimated Annual Volume: 20,000 Gallons

II. Special Waste Department Decision: ◉ Approved ○ Rejected

Management Method(s): ☐ Landfill ☐ Solidification ☐ Bioremediation ☑ Deep Well ☐ Transfer Facility

Problematic Special Waste according to Republic? ○ Yes ◉ No

If yes, which one?

Approved by Special Waste Review Committee? ○ Yes ○ No ◉ Not Applicable

Precautions, Conditions or Limitations on Approval

The site must ensure that all pre-acceptance and verification analytical is performed in accordance with the site's permit requirements prior to acceptance and disposal of the profiled waste.

Special Waste Analyst Signature: _____ **Name (Printed):** KEITH DIAMANTI

Date: 11/4/2022

III. Facility Decision: ○ Approved ○ Rejected

Precautions, Conditions or Limitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee: _____ **Name (Printed):** _____

Date: 11/4/2022

Republic Industrial and Energy Solutions, LLC
28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # 64402215323

GENERATOR INFORMATION

Name: Environmental Enterprises Inc USEPA ID # OHD083377010

Facility Address: 4650 Spring Grove Avenue SIC/NAICS Code: State Code: 9511/56-2211

City: Cincinnati State: OH Zip Code: 45232

Contact: Chelsea Sabelhaus/Warren Taylor Title: Approvals Chemist Phone: (513) 8533589 Fax: (513) 541-1638

BILLING INFORMATION ☑ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

Attention: _____ Title: _____ Phone: ( ) _____ Fax: ( ) _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Scrubbing Bubbles Disinfectant Room Cleaner Liquid

Process Generating Waste (Please *be specific, incomplete information may delay the approval process):*
~~Bulking of liquids collected from crushing of aerosol cans.~~

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☑ Non Hazardous Liquid Industrial Waste ☐ Hazardous Waste
2. Regulated by TSCA? ☐Yes ☑No (PCBs, etc.)
3. List ALL Applicable Waste Codes: NONE

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☑ White/Clear	☑ 0-1 % ☐ 3-5 %	☐ Multi layered	☐ <0.8 ☑ 1.0 — 1.2	
☑ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8—1.0 ☐ 1.3—1.4	
☐ Other		☑ Single Phase	Exact / Other	

pH: ☐NA ☐ < 2 ☐ 2 — 4 ☐ 4 — 6 ☐ 6 — 8 ☐ 8-10 ☑ 10 — 12.5 ☐ >12.5

Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☑ 141—200°F ☐ >200°F ☐ None ☐ Closed Cup ☐ Open Cup

VOC CONCENTRATION - <0.2 ppm PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - *MUST BE EQUAL TO* OR *GREATER THAN 100% (LIST EACH CONSTITUENT <>1= 0.1%)*

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
alkydimethylbenzylammonium chloride	0.0001	0.10	%	didecyldimethylammonium chloride	0.0001	0.10	%
decyldimethyloctylammonium chloride	0.0001	0.10	%	Water	99	100	%
dimethyldioctylammonium chloride	0.0001	0.10	%				%

Metals: Indicate if this waste contains any of the following metals
If Generator knowledge-provide backup ☑ Lab Analysis ☑ Generator Knowledge ☑ TCLP ☐TOTAL

	Not Present	Concentration		Not Present	Concentration
PCB	☑	ppm	Aromatic Amine	☑	ppm
Dioxins	☑	ppm	Pesticides	☑	ppm
Cyanides Reactive	☑	ppm	Rodenticides	☑	ppm
Cyanides Total	☑	ppm	Fungicides	☑	ppm
Sulfides Reactive	☑	ppm			
Sulfides Total	☑	ppm			

Arsenic (As)	D004	☑ <5	ppm	ppm
Barium (Ba)	D005	☑ <100	ppm	ppm
Cadmium (Cd)	D006	☑ <1	ppm	ppm
Chromium (Cr)	D007	☑ <5	ppm	ppm
Lead (Pb)	D008	☑ <5	ppm	ppm
Mercury (Hg)	D009	☑ <0.2	ppm	ppm
Selenium (Se)	D010	☑ <1	ppm	ppm
Silver (Ag)	D011	☑ <5	ppm	ppm

TCLP Organics D012 — D043 above regulatory limits: Present ☐ Not Present ☑

IS WASTE ANY OF THE FOLLOWING? *At Least One Box Must Be Checked.*

☐ Radioactive ☐ Water Reactive ☐ Oxidizer ☐ Shock Sensitive ☐ Reactive (other) ☐ DOT Explosives
☐ NIOSH Human-Positive Carcinogens ☐ NESHAP Wastes (Benzene, etc.) ☐ Biological ☑ None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☐ Yes ☑ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name non-regulated Hazard Class _____ UN/NA _____

PG _____ ERG _____ Hazardous Constituents for "n.o.s." (alkydimethylbenzylammonium chloride)

4. Method of Shipment: ☑ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐Totes
5. Number of Units to Ship Now 5000 gallons 6. Anticipated Volume / Units per Year: 20,000 gallons estimated or ☐ One Time
6. Special Handling Requirements including PPE:

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein.

If this box is checked ☐ I request Republic Industrial & Energy Solutions not to correct any inconsistencies. Any corrections Republic Industrial & Energy Solutions makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: Chelsea Sabelhaus Title: Approvals Chemist - For EEI

Generator's Signature: Chelsea Sabelhaus Date: 10/19/2022

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quartsample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Republic Industrial & Energy Solutions representative.

1. drum thief — SAMPLING METHOD
2. totes of liquid in TSDF — COLLECTION POINT
3. Warren Taylor, QA Director, EEI — SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
4. Sample No. 137536 Preservation: Yes ☑ No ☐
5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	10/24/22
Receiving ID#	Scrubbing Bubbles
Manifest # Line	0
Land Ban Cert included	Yes No
EGT Approval #	
Generator	Environmental Enterprises
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	10.79
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)	74.3
Conductivity	19.68
% Solids	3.75
Turbidity	Yes (No)
Color	Lt. Brown
TSS (%)	< 0.1
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	J.H

(See Attached) for Notes

F039 Analysis

06-Jan-2023

Rick Sauve
Republic Industrial and Energy Solutions, LLC
28470 Cintrin Dr.
Romulus, MI 48174

Re: **F039 Leachate analysis 12.02.22** Work Order: **22120348**

Dear Rick,

ALS Environmental received 1 sample on 02-Dec-2022 11:00 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 44.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Chelsey Cook

Electronically approved by: Les Arnold

Chelsey Cook
Project Manager

ALS Group, USA

Date: 06-Jan-23

Client: Republic Industrial and Energy Solutions, LLC
Project: F039 Leachate analysis 12.02.22
Work Order: **22120348**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
22120348-01	November 2022 F039 Analytical	Liquid		12/1/2022	12/5/2022	☐

ALS Group, USA *Date: 06-Jan-23*

Client:	Republic Industrial and Energy Solutions, LLC
Project:	F039 Leachate analysis 12.02.22
Work Order:	22120348

Case Narrative

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Dioxin/Furans were analyzed by ALS Houston. The subcontract report is appended in its entirety.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

ALS Group, USA

Date: *06-Jan-2023*

Client: Republic Industrial and Energy Solutions, LLC
Project: F039 Leachate analysis 12.02.22
Sample ID: November 2022 F039 Analytical
Collection Date: 12/1/2022

Work Order: 22120348
Lab ID: 22120348-01
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES			**SW8081B**		Prep: SW3511 12/7/22 15:16	Analyst: **MMO**
Aldrin	ND		0.90	µg/L	100	12/7/2022 09:44 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep: SW3510 12/8/22 16:53	Analyst: **EE**
N-Nitrosodimethylamine	ND		1,400	µg/L	100	12/13/2022 08:55 AM
SUBCONTRACTED ANALYSES			**SUBCONTRACT**			Analyst: **ALS**
Subcontracted Analyses	**See attached**			**as noted**	1	1/5/2023

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:	Republic Industrial and Energy Solutions, LLC
Project:	F039 Leachate analysis 12.02.22
WorkOrder:	**22120348**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
µg/L	Micrograms per Liter
as noted	

ALS Group, USA

Date: 06-Jan-23

Client: Republic Industrial and Energy Solutions, LLC

Work Order: 22120348

Project: F039 Leachate analysis 12.02.22

QC BATCH REPORT

Batch ID: **207851** Instrument ID **GC12** Method: **SW8081B**

MBLK Sample ID: **PBLKW1-207851-207851** Units: **µg/L** Analysis Date: **12/7/2022 07:25 PM**

Client ID: Run ID: **GC12_221207A** SeqNo: **9088655** Prep Date: **12/7/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	ND	0.010	0	0	0	0-0	0			
Surr: Decachlorobiphenyl	*0.2968*	0	*0.25*	0	*119*	*42-148*	0			
Surr: Tetrachloro-m-xylene	*0.2158*	0	*0.25*	0	*86.3*	*57-141*	0			

LCS Sample ID: **PLCSW1-207851-207851** Units: **µg/L** Analysis Date: **12/7/2022 07:53 PM**

Client ID: Run ID: **GC12_221207A** SeqNo: **9088663** Prep Date: **12/7/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1808	0.010	0.2	0	90.4	51-164	0			
Surr: Decachlorobiphenyl	*0.3016*	0	*0.25*	0	*121*	*42-148*	0			
Surr: Tetrachloro-m-xylene	*0.252*	0	*0.25*	0	*101*	*57-141*	0			

LCSD Sample ID: **PLCSDW1-207851-207851** Units: **µg/L** Analysis Date: **12/7/2022 08:07 PM**

Client ID: Run ID: **GC12_221207A** SeqNo: **9088666** Prep Date: **12/7/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1998	0.010	0.2	0	99.9	51-164	0	0	20	
Surr: Decachlorobiphenyl	*0.319*	0	*0.25*	0	*128*	*42-148*	0	*0*	*20*	
Surr: Tetrachloro-m-xylene	*0.2774*	0	*0.25*	0	*111*	*57-141*	0	*0*	*20*	

The following samples were analyzed in this batch: 22120348-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22120348
Project: F039 Leachate analysis 12.02.22

QC BATCH REPORT

Batch ID: **207932** Instrument ID **SVMS8** Method: **SW846 8270D**

MBLK Sample ID: **SBLKW1-207932-207932** Units: **µg/L** Analysis Date: **12/10/2022 06:22 PM**
Client ID: Run ID: **SVMS8_221210A** SeqNo: **9097745** Prep Date: **12/8/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	ND	5.0	0	0	0	0-0	0			
Surr: 2,4,6-Tribromophenol	*28.67*	0	*50*	0	*57.3*	*47-103*	0			
Surr: 2-Fluorobiphenyl	*30.87*	0	*50*	0	*61.7*	*41-96*	0			
Surr: 2-Fluorophenol	*24.38*	0	*50*	0	*48.8*	*28-66*	0			
Surr: 4-Terphenyl-d14	*38.71*	0	*50*	0	*77.4*	*49-107*	0			
Surr: Nitrobenzene-d5	*30.12*	0	*50*	0	*60.2*	*41-95*	0			
Surr: Phenol-d6	*17.19*	0	*50*	0	*34.4*	*18-44*	0			

LCS Sample ID: **SLCSW1-207932-207932** Units: **µg/L** Analysis Date: **12/10/2022 06:42 PM**
Client ID: Run ID: **SVMS8_221210A** SeqNo: **9097746** Prep Date: **12/8/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	10.42	5.0	20	0	52.1	26-74	0			
Surr: 2,4,6-Tribromophenol	*39.24*	0	*50*	0	*78.5*	*47-103*	0			
Surr: 2-Fluorobiphenyl	*34.29*	0	*50*	0	*68.6*	*41-96*	0			
Surr: 2-Fluorophenol	*24.62*	0	*50*	0	*49.2*	*28-66*	0			
Surr: 4-Terphenyl-d14	*38.14*	0	*50*	0	*76.3*	*49-107*	0			
Surr: Nitrobenzene-d5	*32.36*	0	*50*	0	*64.7*	*41-95*	0			
Surr: Phenol-d6	*17.2*	0	*50*	0	*34.4*	*18-44*	0			

MS Sample ID: **22120246-01A MS** Units: **µg/L** Analysis Date: **12/10/2022 07:03 PM**
Client ID: Run ID: **SVMS8_221210A** SeqNo: **9097747** Prep Date: **12/8/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	265.8	100	400	0	66.4	26-74	0			
Surr: 2,4,6-Tribromophenol	*832.8*	0	*1000*	0	*83.3*	*47-103*	0			
Surr: 2-Fluorobiphenyl	*791.2*	0	*1000*	0	*79.1*	*41-96*	0			
Surr: 2-Fluorophenol	*634.2*	0	*1000*	0	*63.4*	*28-66*	0			
Surr: 4-Terphenyl-d14	*815*	0	*1000*	0	*81.5*	*49-107*	0			
Surr: Nitrobenzene-d5	*779*	0	*1000*	0	*77.9*	*41-95*	0			
Surr: Phenol-d6	*473.6*	0	*1000*	0	*47.4*	*18-44*	0			*S*

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22120348
Project: F039 Leachate analysis 12.02.22

QC BATCH REPORT

Batch ID: **207932** Instrument ID **SVMS8** Method: **SW846 8270D**

MSD Sample ID: **22120246-01A MSD** Units: **µg/L** Analysis Date: **12/10/2022 07:24 PM**
Client ID: Run ID: **SVMS8_221210A** SeqNo: **9097748** Prep Date: **12/8/2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	182.8	100	400	0	45.7	26-74	265.8	37	30	R
Surr: 2,4,6-Tribromophenol	*687.2*	0	*1000*	0	*68.7*	*47-103*	832.8	*19.2*	*40*	
Surr: 2-Fluorobiphenyl	*578.6*	0	*1000*	0	*57.9*	*41-96*	791.2	*31*	*40*	
Surr: 2-Fluorophenol	*438.6*	0	*1000*	0	*43.9*	*28-66*	634.2	*36.5*	*40*	
Surr: 4-Terphenyl-d14	*708.6*	0	*1000*	0	*70.9*	*49-107*	815	*14*	*40*	
Surr: Nitrobenzene-d5	*539.2*	0	*1000*	0	*53.9*	*41-95*	779	*36.4*	*40*	
Surr: Phenol-d6	*321.4*	0	*1000*	0	*32.1*	*18-44*	473.6	*38.3*	*40*	

The following samples were analyzed in this batch: 22120348-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Chain of Custody Form

Page 1 of 1

☑ ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

ALS Project Manager:		ALS Work Order #:	

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	RIES12012022F039	A	Aldrin
Work Order		Project Number		B	Hexachlorodibenzo-p-dioxins
Company Name	Republic Industrial and Energy	Bill To Company	Republic Industrial and Energy	C	Nitrosodimethlyamine
Send Report To	Rick Sauve	Invoice Attn.		D	1,2,3,4,6,7,8,9-Octachlor-dibenzofuran
Address	28470 Cintrin Dr.	Address	28470 Cintrin Dr.	E	1,2,3,4,6,7,8,9-Octachloro-dibenzo-p-dioxin
				F	Tetrachlorodibenzo-p-dioxins
City/State/Zip	Romulus, MI 48174	City/State/Zip	Romulus, MI 48174	G	
Phone	734-784-2708	Phone		H	
Fax		Fax		I	
e-Mail Address	RSauve@republicservices.com			J	

No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	November 2022 F039	12/1/2022		L		3	X	X	X	X	X	X					

22120348
REPUBLIC INDUSTRIAL ROMULUS: Republic Industrial and Energy Solutions, LLC
Project: (RIES) F039 Leachate analysis 11.1.2022

Sampler(s): Please Print & Sign
Rick Sauve

Shipment Method:

Turnaround Time: (Business Days)
☐ 10 BD ☑ 5 BD ☐ 3 BD ☐ 2 BD ☐ 1 BD ☐ Other

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:
Rick Sauve	12/2/2022	12:45		12/2/22 ~~12:15~~	12:15	SUB DLF to Boston
Relinquished by:	Date:	Time:	Received by (Laboratory):	Date:	Time:	
	12/2/22	17:00	QS	12/2/22	17:00	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):			
	12/5/22	1400				

ALS Cooler ID	Cooler Temp	QC Package: (Check Box Below)	
	4.0°C	☑ Level II: Standard QC	☐ Level III: Raw Data
		☐ TRRP LRC	☐ TRRP Level IV
		☐ Level IV: SW846 Methods/CLP like	
		☐ Other:	

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS.

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ALS Group, USA
Holland, Michigan

Sample Receipt Checklist

Client Name: **REPULICINDUSTRIAL - ROMULU** Date/Time Received: **02-Dec-22 11:00**

Work Order: **22120348** Received by: **LA**

Checklist completed by Keith Wierenga (eSignature) 05-Dec-22 (Date) Reviewed by: Les Arnold (eSignature) 05-Dec-22 (Date)

Matrices: water
Carrier name: City Transfer

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Sample(s) received on ice?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.5		
Cooler(s)/Kit(s):			
Date/Time sample(s) sent to storage:	12/5/22 13:00		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

22120348
REPUBLIC INDUSTRIAL ROMULUS, Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 11.1.2(1)2

ations and Reporting

RCRA CODE(S)	NAME	LIMIT (mg/ml)	MINIMUM[5] MONITORING FREQUENCY	MINIMUM REPORTING FREQUENCY
F039, P004	Aldrin	200	monthly/per load	monthly
U021	Benzidine	200	monthly/per load	monthly
P016,K017	sym-Dichloromethyl ether	160	monthly/per load	monthly
F020,F021, F022,F026, F027,F028, F032,F039, F032,K043, K099	Hexachlorodibenzo-p-dioxins	6	monthly/per load	monthly
K174,K178	Hexachlorodibenzo-p-dioxins, all	6	monthly/per load	monthly
F039,P082	Nitrosodimethylamine	200	monthly/per load	monthly
F039,K174, K178	1,2,3,4,6,7,8,9- Octachloro-dibenzofuran	6	monthly/per load	monthly
F039,K174, K178	1,2,3,4,6,7,8,9- Octachloro-dibenzo-p-dioxin	6	monthly/per load	monthly
F020,F021, F022,F026, F027,F028, F032,F039, F032,K043	Tetrachlorodibenzo-p-dioxins (TCDD)	30	monthly/per load	monthly
K174,K178	Tetrachlorodibenzo-p-dioxins (TCDD)	30	monthly/per load	monthly
P110	Tetraethyl lead	100	monthly/per load	monthly

[5]The monthly chemical analyses for the specific chemicals and waste codes required by this table apply to post-treatment "source" material for injection. A "per load" fingerprint analysis is required for each incoming waste shipment received and for each batch of post-treatment source material as specified in Part III(E) to confirm the general characteristics of the materials. The fingerprint analysis of the general characteristics of the source is not specific to these individual waste codes.

January 06, 2023

Service Request No:E2201159

Les Arnold
ALS - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 22120348

Dear Les,

Enclosed are the results of the sample(s) submitted to our laboratory December 06, 2022
For your reference, these analyses have been assigned our service request number **E2201159.**

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

James Guin

ADDRESS 10450 Stancliff Rd., Suite 210, Houston, TX 77099
PHONE +1 281 530 5656 | FAX +1 281 530 5887
ALS Group USA, Corp.
dba ALS Environmental

ALS Environmental

Certificate of Analysis

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Environmental

Client:	ALS Environmental – Holland (MI)	**Service Request No.:**	E221159
Project:	22120348	**Date Received:**	12/06/22
Sample Matrix:	Water		

CASE NARRATIVE

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 12/06/22.

The sample was received in good condition and is consistent with the accompanying chain of custody form. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2300005: Laboratory Control Spike (LCS) sample was analyzed and reported in lieu of a MS/MSD for this extraction batch.

The batch precision (MS/DMS) measurements were determined on another order in the extraction batch. The MS/DMS results are not included in this report.

B flags – Method Blanks

The Method Blank EQ2300005-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

Y flags – Cleanup Standard

The recoveries for the cleanup standard, 37Cl-2,3,7,8-TCDD are below control limits. The sample results are not affected since this labeled standard is provided as a means of demonstrating that both the sample extraction and subsequent cleanup steps performed as expected and is not used in quantitation of target analytes.

Y flags – Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

Dilutions

The sample E2201159-001 had elevated levels of target analytes and required a dilution. The undiluted and diluted results were combined into one Total TEQ summary report for each sample. This reports a 'Total' result that includes the most appropriate concentration found for the associated target analyte.

K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

Detection Limits

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client: ALS Environmental - Holland (MI) **Service Request:**E2201159
Project: 22120348

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
E2201159-001	October 2022 F039 Analytical	12/1/2022	0000

Service Request Summary

Folder #: **E2201159**
Client Name: ALS Environmental - Holland (MI)
Project Name: 22120348
Project Number:

Report To: Les Arnold
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA
Phone Number: 616-738-7307
Cell Number: 616-836-2964
Fax Number: 616-399-6185
E-mail: les.arnold@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 12/06/22
Internal Due Date: 12/23/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 22120348
EDD: BASIC_WQC_CASNo

1 500 mL-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Lab Samp No.	Client Samp No	Matrix	Collected	HOUSTON Dioxins Furans/1613B
E2201159-001	October 2022 F039 Analytical	Water	12/01/22 0000	II

Service Request Summary

Folder #: **E2201159**
Client Name: ALS Environmental - Holland (MI)
Project Name: 22120348
Project Number:

Report To: Les Arnold
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA
Phone Number: 616-738-7307
Cell Number: 616-836-2964
Fax Number: 616-399-6185
E-mail: les.arnold@alsglobal.com

Project Chemist: James Guin
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 12/06/22
Internal Due Date: 12/23/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 22120348
EDD: BASIC_WQC_CASNo

1 500 mL-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 1A
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

B Indicates the associated analyte was found in the method blank at >1/10th the reported value.

E Estimated value. The reported concentration is above the calibration range of the instrument.

H Sample extracted and/or analyzed out of suggested holding time.

J Estimated value. The reported concentration is below the MRL.

K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits.The concentration of this analyte should be considered as an estimate.

P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.

Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.

S Signal saturated detector. Result reported from dilution.

U Compound was analyzed for, but was not detected (ND).

X See Case Narrative.

Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.

i The MDL/MRL have been elevated due to a matrix interference.

ALS Laboratory Group

Acronyms

Cal	Calibration
Conc	CONCentration
Dioxin(s)	Polychlorinated dibenzo-p-dioxin(s)
EDL	Estimated Detection Limit
EMPC	Estimated Maximum Possible Concentration
Flags	Data qualifiers
Furan(s)	Polychlorinated dibenzofuran(s)
g	Grams
ICAL	Initial CALibration
ID	IDentifier
Ions	Masses monitored for the analyte during data acquisition
L	Liter (s)
LCS	Laboratory Control Sample
DLCS	Duplicate Laboratory Control Sample
MB	Method Blank
MCL	Method Calibration Limit
MDL	Method Detection Limit
mL	Milliliters
MS	Matrix Spiked sample
DMS	Duplicate Matrix Spiked sample
NO	Number of peaks meeting all identification criteria
PCDD(s)	Polychlorinated dibenzo-p-dioxin(s)
PCDF(s)	Polychlorinated dibenzofuran(s)
ppb	Parts per billion
ppm	Parts per million
ppq	Parts per quadrillion
ppt	Parts per trillion
QA	Quality Assurance
QC	Quality Control
Ratio	Ratio of areas from monitored ions for an analyte
% Rec.	Percent recovery
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SDG	Sample Delivery Group
S/N	Signal-to-noise ratio
TEF	Toxicity Equivalence Factor
TEQ	Toxicity Equivalence Quotient

ALS Environmental

State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
Arkansas Department of Environmental Quality	22-041-0	3/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2201159 DB-5MSUI SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
01/06/23	LKL	001

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
01/06/23	SL	001

ALS ENVIRONMENTAL – Houston
Data Processing/Form Production and Peer Review Signatures

SR# Unique ID E2201159 (DB-5MSUI) SPB-Octyl

First Level - Data Processing - to be filled by person generating the forms

Date:	Analyst:	Samples:
01/06/23	LKL	001 DL

Second Level - Data Review – to be filled by person doing peer review

Date:	Analyst:	Samples:
01/06/23	[illegible]	001 DL

ALS Environmental

Chain of Custody

ALS Environmental - Houston HRMS
10450 Stancliff Rd, Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Subcontractor:
ALS Environmental
10450 Stancliff Rd
Suite 210
Houston, TX 77099

TEL: (281) 530-5656
FAX: (281) 530-5887
Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 05-Dec-22
COC ID: 21640
Due Date: 23-Dec-22

Salesperson	ALSHN Account

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order	HJ-22120348	Project Name	22120348	A	Subcontracted Analyses (SUBCONTRACT)
Work Order		Project Number		B	Client List D/F
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp	C	
Send Report To	Les Arnold	Inv Attn	Accounts Payable	D	
Address	3352 128th Ave	Address	3352 128th Ave	E	
				F	
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	G	
Phone	(616) 399-6070	Phone	(616) 399-6070	H	
Fax	(616) 399-6185	Fax	(616) 399-6185	I	
eMail Address	les.arnold@alsglobal.com	eMail CC		J	

ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J
22120348-01B	October 2022 F039 Analytical	Liquid	1/Dec/2022	(1) 250AMGNEAT	X									

Comments: Bio= 2.1 °C, #31, c((... 05)

Relinquished by:	Date/Time	Received by:	Date/Time	Cooler IDs	Report/QC Level
[signature]		[signature]	12/6/22 15:10.		Std
Relinquished by:	Date/Time	Received by:	Date/Time		

Cooler Receipt Form

ALS Environmental

Project Chemist JG

Client/Project Aug I J

Thermometer ID IR41

Date/Time Received: 12.6.22 Initials: CG Date/Time Logged in: 12.6.22 Initials CG

1. Method of delivery: ◯ US Mail ◯ Fed Ex ◯ UPS ◯ DHL ◯ Courier ◯ Client

2. Samples received in: ◯ Cooler ◯ Box ◯ Envelope ◯ Other

3. Were custody seals on coolers? ◯ Yes ◯ No If yes, how many and where?

Were they intact? ◯ Yes ◯ No ◯ N/A

Were they signed and dated? ◯ Yes ◯ No ◯ N/A

4. Packing Material: ◯ Inserts ◯ Baggies ◯ Bubble Wrap ◯ Gel Packs ◯ Wet Ice ◯ Sleeves ◯ Other

5. Foreign or Regulated Soil? ◯ Yes ◯ No Location of Sampling:

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
5551 9389		12.6.22	0930	PG	1.6	☐
						☐
						☐
						☐

6. Were custody papers properly filled out (ink, signed, dated, etc)? ◯ Yes ◯ No

7. Did all bottles arrive in good condition (not broken, no signs of leakage)? ◯ Yes ◯ No

8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? ◯ Yes ◯ No

9. Were appropriate bottles/containers and volumes received for the requested tests? ◯ Yes ◯ No

10. Did sample labels and tags agree with custody documents? ◯ Yes ◯ No

Notes, Discrepancies, & Resolutions:

Service request Label:

10450 Stancliff Rd., Suite 210
Houston, TX 77099
T: +1 713 266 1599
F: +1 713 266 1599
www.alsglobal.com

SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental – Houston HRMS.

Cooler Custody Seals (desirable, mandatory if specified in SAP):

- ✓ Intact on outside of cooler, signed and dated

Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- ✓ Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- ✓ Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
- ✓ An appropriate sample volume, or weight, must be received.
- ✓ Sample IDs and number of containers must reconcile with the COC.
- ✓ Samples must be received within the method defined holding time.

Temperature Requirement (varies by sample matrix):

- ✓ Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C.
- ✓ Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report

ALS Environmental

Preparation Information Benchsheets

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 412500
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtAq(365)
Prep Method: Method Sep Funnel/Jar

Status: Prepped
Prep Date/Time: 1/4/23 09:00

#	Lab Code	Client ID	B#	Method /Test	pH	Cl	Matrix	Amt. Ext.	Sample Description
1	E2201118-001RE	22-315-0009	.01	1613B/Dioxins Furans			Water	1000mL	
2	E2201136-001	1R-GW-MW6A-007	.01	1613B/Dioxins Furans			Water	1000mL	
3	E2201136-002	1R-GW-MW7-008	.01	1613B/Dioxins Furans			Water	1000mL	
4	E2201136-003	1R-GW-MW6-007	.01	1613B/Dioxins Furans			Water	1000mL	
5	E2201136-004	1R-GW-MW6-008	.01	1613B/Dioxins Furans			Water	1000mL	
6	E2201136-005	1R-GW-MW8-007	.01	1613B/Dioxins Furans			Water	1000mL	
7	E2201138-008	BH-EB-092622	.01	1613B/Dioxins Furans			Water	1000mL	
8	E2201142-001	2145018	.01	1613B/Dioxins Furans			Water	1000mL	yellow Clear
9	E2201159-001	October 2022 F039 Analytical	.01	1613B/Dioxins Furans			Water	490mL	green cloudy
10	E2201177-003RE	GP-BE-12-05-22	.01	1613B/Dioxins Furans			Water	997mL	orange cloudy
11	E2201180-001	PZB-9R	.01	1613B/Dioxins Furans			Ground Water	1000mL	
12	E2201180-002	PZB-13	.01	1613B/Dioxins Furans			Ground Water	1000mL	
13	E2201180-003	PZP-11	.01	1613B/Dioxins Furans			Ground Water	1000mL	
14	E2201217-001	EP 101 (3278887001)	.01	1613B/Dioxins Furans			Drinking Water	1060mL	clear
15	EQ2300005-01	MB		1613B/Dioxins Furans			Liquid	1000mL	
16	EQ2300005-02	LCS		1613B/Dioxins Furans			Liquid	1000mL	
17	EQ2300005-03	PZB-13 MS	.01	1613B/Dioxins Furans			Liquid	1000mL	
18	EQ2300005-04	PZB-13 DMS	.01	1613B/Dioxins Furans			Liquid	1000mL	
19	EQ2300005-05	MB		1613B/Dioxins Furans			Drinking Water	1000mL	
20	EQ2300005-06	LCS		1613B/Dioxins Furans			Drinking Water	1000mL	

Spiking Solutions

Name: 8290/1613B Cleanup Working Standard Inventory ID 226288 Logbook Ref: bf 11/28/22 226288 Expires On: 02/28/2023

E2201118-001	100.00µL	E2201136-001	100.00µL	E2201136-002	100.00µL	E2201136-003	100.00µL	E2201136-004	100.00µL	E2201136-005	100.00µL
E2201138-008	100.00µL	E2201142-001	100.00µL	E2201159-001	100.00µL	E2201159-001.R	100.00µL	E2201177-003	100.00µL	E2201180-001	100.00µL
E2201180-002	100.00µL	E2201180-003	100.00µL	E2201217-001	100.00µL	EQ2300005-01	100.00µL	EQ2300005-02	100.00µL	EQ2300005-03	100.00µL
EQ2300005-04	100.00µL	EQ2300005-05	100.00µL	EQ2300005-06	100.00µL						

Name: 1613B Matrix Working Standard Inventory ID 226782 Logbook Ref: tw 226782 12/28/22 Expires On: 06/26/2023

E2201118-001	100.00µL	E2201136-001	100.00µL	E2201136-002	100.00µL	E2201136-003	100.00µL	E2201136-004	100.00µL	E2201136-005	100.00µL
E2201138-008	100.00µL	E2201142-001	100.00µL	E2201159-001	100.00µL	E2201159-001.R	100.00µL	E2201177-003	100.00µL	E2201180-001	100.00µL
E2201180-002	100.00µL	E2201180-003	100.00µL	E2201217-001	100.00µL	EQ2300005-01	100.00µL	EQ2300005-02	100.00µL	EQ2300005-03	100.00µL
EQ2300005-04	100.00µL	EQ2300005-05	100.00µL	EQ2300005-06	100.00µL						

Preparation Information Benchsheet

Prep Run#: 412500
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtAq(365)
Prep Method: Method Sep Funnel/Jar

Status: Prepped
Prep Date/Time: 1/4/23 09:00

Name:	1613B Labeled Working Standard	Inventory ID	226945	Logbook Ref:	NB 01/05/2023	Expires On:	04/10/2023

E2201118-001	1,000.00µL	E2201136-001	1,000.00µL	E2201136-002	1,000.00µL	E2201136-003	1,000.00µL	E2201136-004	1,000.00µL	E2201136-005	1,000.00µL
E2201138-008	1,000.00µL	E2201142-001	1,000.00µL	E2201159-001	1,000.00µL	E2201159-001.R	1,000.00µL	E2201177-003	1,000.00µL	E2201180-001	1,000.00µL
E2201180-002	1,000.00µL	E2201180-003	1,000.00µL	E2201217-001	1,000.00µL	EQ2300005-01	1,000.00µL	EQ2300005-02	1,000.00µL	EQ2300005-03	1,000.00µL
EQ2300005-04	1,000.00µL	EQ2300005-05	1,000.00µL	EQ2300005-06	1,000.00µL						

Preparation Steps

Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	1/4/23 09:00	Started:	1/4/23 09:00	Started:	1/5/23 09:00	Started:	1/5/23 13:00
Finished:	1/4/23 17:11	Finished:	1/4/23 10:00	Finished:	1/5/23 13:00	Finished:	1/5/23 17:00
By:	NBIDJONGO	By:	NBIDJONGO	By:	NBIDJONGO	By:	NBIDJONGO
Comments		Comments		Comments		Comments	

Comments: _____

_____

Reviewed By: _____ Date: _____

Chain of Custody

Relinquished By: _____ Date: _____ Extracts Examined

Received By: _____ Date: _____ Yes No

ALS Environmental

Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	12/01/22 00:00
Sample Matrix:	Water	**Date Received:**	12/06/22 15:10
Sample Name:	October 2022 F039 Analytical	**Units:**	pg/L
Lab Code:	E2201159-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 15:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	490mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540590	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	192		6.47	10.2	0.79	1.001	1
1,2,3,7,8-PeCDD	320		6.78	51.0	1.44	1.000	1
1,2,3,4,7,8-HxCDD	211		10.7	51.0	1.27	1.000	1
1,2,3,6,7,8-HxCDD	653		10.4	51.0	1.28	1.001	1
1,2,3,7,8,9-HxCDD	274		10.6	51.0	1.27	1.007	1
1,2,3,4,6,7,8-HpCDD	7030		31.2	51.0	1.05	1.000	1
OCDD	49800		57.4	102	0.88	1.000	1
2,3,7,8-TCDF	2260		17.9	17.9	0.70	1.001	1
1,2,3,7,8-PeCDF	11100		109	109	1.49	1.000	1
2,3,4,7,8-PeCDF	11300		109	109	1.47	1.001	1
1,2,3,4,7,8-HxCDF	97500		585	2550	1.17	1.001	50
1,2,3,6,7,8-HxCDF	30100		25.2	51.0	1.17	1.001	1
1,2,3,7,8,9-HxCDF	3610		22.6	51.0	1.14	1.001	1
2,3,4,6,7,8-HxCDF	6610		19.3	51.0	1.17	1.000	1
1,2,3,4,6,7,8-HpCDF	558000		1090	2550	0.96	1.000	50
1,2,3,4,7,8,9-HpCDF	16000		139	139	1.02	1.000	1
OCDF	745000		3020	5100	0.81	1.004	50

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	12/01/22 00:00
Sample Matrix:	Water	**Date Received:**	12/06/22 15:10
Sample Name:	October 2022 F039 Analytical	**Units:**	pg/L
Lab Code:	E2201159-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 15:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	490mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540590	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	3700		6.47	10.2	0.73		1
Total Penta-Dioxins	4190		6.78	51.0	1.53		1
Total Hexa-Dioxins	7490		10.6	51.0	1.29		1
Total Hepta-Dioxins	15700		31.2	51.0	1.04		1
Total Tetra-Furans	107000		17.9	17.9	0.70		1
Total Penta-Furans	150000		1.28	51.0	1.47		1
Total Hexa-Furans	252000		21.5	51.0	1.18		1
Total Hepta-Furans	558000		139	139	1.02		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	12/01/22 00:00
Sample Matrix:	Water	**Date Received:**	12/06/22 15:10
Sample Name:	October 2022 F039 Analytical	**Units:**	Percent
Lab Code:	E2201159-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 15:24
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	490mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540590	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	992.192	50		25-164	0.78	1.026
13C-1,2,3,7,8-PeCDD	2000	993.288	50		25-181	1.59	1.222
13C-1,2,3,4,7,8-HxCDD	2000	675.677	34		32-141	1.25	0.990
13C-1,2,3,6,7,8-HxCDD	2000	715.167	36		28-130	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	711.711	36		23-140	1.04	1.069
13C-OCDD	4000	965.908	24		17-157	0.89	1.140
13C-2,3,7,8-TCDF	2000	801.010	40		24-169	0.77	0.990
13C-1,2,3,7,8-PeCDF	2000	924.322	46		24-185	1.60	1.173
13C-2,3,4,7,8-PeCDF	2000	936.244	47		21-178	1.62	1.211
13C-1,2,3,4,7,8-HxCDF	2000	748.482	37		26-152	0.51	0.968
13C-1,2,3,6,7,8-HxCDF	2000	594.953	30		26-123	0.51	0.972
13C-1,2,3,7,8,9-HxCDF	2000	747.287	37		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	813.945	41		28-136	0.50	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	575.595	29		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	702.242	35		26-138	0.44	1.081
37Cl-2,3,7,8-TCDD	800	441.339	55		35-197	NA	1.027

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	12/01/22 00:00
Sample Matrix:	Water	**Date Received:**	12/06/22 15:10
Sample Name:	October 2022 F039 Analytical	**Units:**	pg/L
Lab Code:	E2201159-001	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar

Toxicity Equivalency Quotient

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	**192**	6.47	10.2	1	1	192
1,2,3,7,8-PeCDD	**320**	6.78	51.0	1	1	320
1,2,3,4,7,8-HxCDD	**211**	10.7	51.0	1	0.1	21.1
1,2,3,6,7,8-HxCDD	**653**	10.4	51.0	1	0.1	65.3
1,2,3,7,8,9-HxCDD	**274**	10.6	51.0	1	0.1	27.4
1,2,3,4,6,7,8-HpCDD	**7030**	31.2	51.0	1	0.01	70.3
OCDD	**49800**	57.4	102	1	0.0003	14.9
2,3,7,8-TCDF	**2260**	17.9	17.9	1	0.1	226
1,2,3,7,8-PeCDF	**11100**	109	109	1	0.03	333
2,3,4,7,8-PeCDF	**11300**	109	109	1	0.3	3390
1,2,3,4,7,8-HxCDF	**97500**	585	2550	50	0.1	9750
1,2,3,6,7,8-HxCDF	**30100**	25.2	51.0	1	0.1	3010
1,2,3,7,8,9-HxCDF	**3610**	22.6	51.0	1	0.1	361
2,3,4,6,7,8-HxCDF	**6610**	19.3	51.0	1	0.1	661
1,2,3,4,6,7,8-HpCDF	**558000**	1090	2550	50	0.01	5580
1,2,3,4,7,8,9-HpCDF	**16000**	139	139	1	0.01	160
OCDF	**745000**	3020	5100	50	0.0003	224
		Total TEQ				24400

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2300005-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 14:36
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540589	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.51	5.00			1
1,2,3,7,8-PeCDD	ND	U	0.552	25.0			1
1,2,3,4,7,8-HxCDD	1.31**JK**		0.482	25.0	0.99	1.000	1
1,2,3,6,7,8-HxCDD	ND	U	0.455	25.0			1
1,2,3,7,8,9-HxCDD	ND	U	0.469	25.0			1
1,2,3,4,6,7,8-HpCDD	3.63**JK**		0.675	25.0	1.25	1.000	1
OCDD	11.8**J**		0.899	50.0	0.90	1.000	1
2,3,7,8-TCDF	ND	U	1.50	5.00			1
1,2,3,7,8-PeCDF	ND	U	0.588	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.606	25.0			1
1,2,3,4,7,8-HxCDF	ND	U	0.271	25.0			1
1,2,3,6,7,8-HxCDF	ND	U	0.307	25.0			1
1,2,3,7,8,9-HxCDF	0.391**J**		0.366	25.0	1.09	1.001	1
2,3,4,6,7,8-HxCDF	ND	U	0.251	25.0			1
1,2,3,4,6,7,8-HpCDF	0.406**JK**		0.272	25.0	1.56	1.000	1
1,2,3,4,7,8,9-HpCDF	ND	U	0.295	25.0			1
OCDF	ND	U	0.874	50.0			1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	pg/L
Lab Code:	EQ2300005-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 14:36
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540589	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.51	5.00			1
Total Penta-Dioxins	ND	U	0.552	25.0			1
Total Hexa-Dioxins	1.88**J**		0.468	25.0	1.37		1
Total Hepta-Dioxins	ND	U	0.675	25.0			1
Total Tetra-Furans	ND	U	1.50	5.00			1
Total Penta-Furans	ND	U	0.597	25.0			1
Total Hexa-Furans	0.391**J**		0.294	25.0	1.09		1
Total Hepta-Furans	1.12**J**		0.283	25.0	0.89		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Units:**	Percent
Lab Code:	EQ2300005-01	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 14:36
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540589	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1630.241	82		25-164	0.78	1.026
13C-1,2,3,7,8-PeCDD	2000	1654.990	83		25-181	1.58	1.223
13C-1,2,3,4,7,8-HxCDD	2000	1478.861	74		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1671.480	84		28-130	1.26	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1885.470	94		23-140	1.06	1.069
13C-OCDD	4000	3535.905	88		17-157	0.89	1.140
13C-2,3,7,8-TCDF	2000	1230.185	62		24-169	0.77	0.991
13C-1,2,3,7,8-PeCDF	2000	1612.205	81		24-185	1.57	1.174
13C-2,3,4,7,8-PeCDF	2000	1519.835	76		21-178	1.61	1.212
13C-1,2,3,4,7,8-HxCDF	2000	1672.746	84		26-152	0.53	0.969
13C-1,2,3,6,7,8-HxCDF	2000	1424.801	71		26-123	0.52	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1502.845	75		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1830.091	92		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1509.812	75		28-143	0.44	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1752.643	88		26-138	0.44	1.081
37Cl-2,3,7,8-TCDD	800	501.230	63		35-197	NA	1.027

ALS Environmental

Accuracy & Precision

ALS Environmental - Houston HRMS
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Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Analyzed:**	01/05/23
Sample Matrix:	Water	**Date Extracted:**	01/04/23

Lab Control Sample Summary
Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Units:**	pg/L
Prep Method:	Method Sep Funnel/Jar	**Basis:**	NA
		Analysis Lot:	790691

Lab Control Sample
EQ2300005-02

Analyte Name	Result	Spike Amount	% Rec	% Rec Limits
1,2,3,4,6,7,8-HpCDD	896	1000	90	70-140
1,2,3,4,7,8-HxCDD	959	1000	96	70-164
1,2,3,6,7,8-HxCDD	902	1000	90	76-134
1,2,3,7,8,9-HxCDD	994	1000	99	64-162
1,2,3,7,8-PeCDD	938	1000	94	70-142
2,3,7,8-TCDD	155	200	77	67-158
OCDD	1910	2000	96	78-144
1,2,3,4,6,7,8-HpCDF	1000	1000	100	82-122
1,2,3,4,7,8,9-HpCDF	904	1000	90	78-138
1,2,3,4,7,8-HxCDF	915	1000	91	72-134
1,2,3,6,7,8-HxCDF	1020	1000	102	84-130
1,2,3,7,8,9-HxCDF	1000	1000	100	78-130
1,2,3,7,8-PeCDF	964	1000	96	80-134
2,3,4,6,7,8-HxCDF	847	1000	85	70-156
2,3,4,7,8-PeCDF	1040	1000	104	68-160
2,3,7,8-TCDF	196	200	98	75-158
OCDF	1910	2000	96	63-170

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Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2300005-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 17:49
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540593	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	155		1.96	5.00	0.77	1.001	1
1,2,3,7,8-PeCDD	938		0.696	25.0	1.61	1.001	1
1,2,3,4,7,8-HxCDD	959		0.635	25.0	1.28	1.000	1
1,2,3,6,7,8-HxCDD	902		0.593	25.0	1.26	1.000	1
1,2,3,7,8,9-HxCDD	994		0.614	25.0	1.24	1.007	1
1,2,3,4,6,7,8-HpCDD	896		0.724	25.0	1.07	1.001	1
OCDD	1910		3.66	50.0	0.89	1.000	1
2,3,7,8-TCDF	196		2.53	5.00	0.75	1.001	1
1,2,3,7,8-PeCDF	964		1.48	25.0	1.50	1.000	1
2,3,4,7,8-PeCDF	1040		1.47	25.0	1.49	1.000	1
1,2,3,4,7,8-HxCDF	915		0.292	25.0	1.22	1.000	1
1,2,3,6,7,8-HxCDF	1020		0.347	25.0	1.18	1.000	1
1,2,3,7,8,9-HxCDF	1000		0.410	25.0	1.20	1.000	1
2,3,4,6,7,8-HxCDF	847		0.284	25.0	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	1000		2.32	25.0	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	904		2.57	25.0	0.97	1.000	1
OCDF	1910		5.63	50.0	0.87	1.004	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	pg/L
Lab Code:	EQ2300005-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 17:49
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540593	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	155		1.96	5.00	0.77		1
Total Penta-Dioxins	938		0.696	25.0	1.61		1
Total Hexa-Dioxins	2850		0.614	25.0	1.28		1
Total Hepta-Dioxins	896		0.724	25.0	1.07		1
Total Tetra-Furans	196		2.53	5.00	0.75		1
Total Penta-Furans	2010		1.48	25.0	1.50		1
Total Hexa-Furans	3780		0.328	25.0	1.22		1
Total Hepta-Furans	1910		2.44	25.0	0.99		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	ALS Environmental - Holland (MI)	**Service Request:**	E2201159
Project:	22120348	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Lab Control Sample	**Units:**	Percent
Lab Code:	EQ2300005-02	**Basis:**	NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:	1613B	**Date Analyzed:**	01/05/23 17:49
Prep Method:	Method Sep Funnel/Jar	**Date Extracted:**	1/4/23
Sample Amount:	1000mL	**Instrument Name:**	E-HRMS-07
		GC Column:	DB-5MSUI
Data File Name:	P540593	**Blank File Name:**	P540589
ICAL Date:	01/18/22	**Cal Ver. File Name:**	P540581

Labeled Standard Results

Labeled Compounds	Spike Conc.(pg)	Conc. Found (pg)	% Rec	Q	Control Limits	Ion Ratio	RRT
13C-2,3,7,8-TCDD	2000	1727.908	86		25-164	0.79	1.026
13C-1,2,3,7,8-PeCDD	2000	1800.309	90		25-181	1.59	1.223
13C-1,2,3,4,7,8-HxCDD	2000	1647.535	82		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1757.895	88		28-130	1.24	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	2058.153	103		23-140	1.06	1.069
13C-OCDD	4000	3821.249	96		17-157	0.89	1.140
13C-2,3,7,8-TCDF	2000	1315.431	66		24-169	0.77	0.991
13C-1,2,3,7,8-PeCDF	2000	1736.556	87		24-185	1.59	1.173
13C-2,3,4,7,8-PeCDF	2000	1656.685	83		21-178	1.61	1.211
13C-1,2,3,4,7,8-HxCDF	2000	1827.357	91		26-152	0.51	0.969
13C-1,2,3,6,7,8-HxCDF	2000	1524.280	76		26-123	0.52	0.972
13C-1,2,3,7,8,9-HxCDF	2000	1665.641	83		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1971.422	99		28-136	0.52	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	1650.532	83		28-143	0.43	1.044
13C-1,2,3,4,7,8,9-HpCDF	2000	1894.990	95		26-138	0.44	1.081
37Cl-2,3,7,8-TCDD	800	490.314	61		35-197	NA	1.027