



REPUBLIC
SERVICES

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

August 1st, 2022

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 First 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 June 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,

Brendan Odrowski

cc: Rick Sauve (Republic Services), Michael Alderman (Republic Services), John Frost (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2022

CURRENT REPORTING MONTH June

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	977,296	0	977,296
Since facility first injected			48,832,086
MI-163-1W-C011, Well #2-12			
Current Month	958,304	0	958,304
Since facility first injected			27,756,511
		Lifetime Combined	76,588,597

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 102

102 lifetime number of months of injection × 43,830 minutes/month
= 4,470,660 minutes of injection

Lifetime combined injected volume 76,588,597 ÷ 4,470,660 minutes of injection
= 17.13 gpm average injection rate

WELL 1 DATA



Injection Well 1, June 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
6/1/2022	165.6	939.7	26.5	26.8	1093.3	1732.1	1.8	7.3	0.0	88.2	522.1	929.2
6/2/2022	161.9	938.7	26.5	26.7	1038.2	1646.0	1.4	8.2	0.0	93.5	484.1	892.2
6/3/2022	155.3	939.5	26.6	26.8	1030.4	1634.6	2.8	7.4	0.0	77.1	462.7	912.6
6/4/2022	153.3	938.3	26.6	26.8	1015.3	1483.0	6.9	7.2	0.0	63.1	472.0	909.5
6/5/2022	125.6	937.7	26.6	26.7	980.1	1,664.4	4.6	7.2	0.0	82.6	431.9	993.1
6/6/2022	116.3	940.1	26.6	26.7	1000.6	1,610.0	5.8	7.2	0.0	85.8	445.3	945.9
6/7/2022	142.6	940.4	26.6	26.8	1,021.5	1,591.9	2.3	7.2	0.0	92.8	468.5	904.4
6/8/2022	145.1	942.1	26.6	26.7	1,020.7	1,618.9	2.6	7.1	0.0	84.4	460.6	896.2
6/9/2022	139.3	952.4	26.5	26.7	1023.3	1,558.6	2.5	7.1	0.0	94.2	461.0	899.7
6/10/2022	27.7	940.2	26.5	26.6	976.0	1,429.8	1.7	7.2	0.0	94.0	426.3	955.0
6/11/2022	124.9	835.1	26.5	26.7	929.2	1,393.5	6.8	7.0	0.0	80.7	558.3	903.7
6/12/2022	119.1	125.3	26.6	26.7	906.6	930.1	6.9	6.9	0.0	0.0	787.3	804.9
6/13/2022	114.9	920.5	26.6	26.8	902.7	1,537.6	1.8	7.0	0.0	84.4	382.7	846.7
6/14/2022	117.6	939.5	26.6	26.8	1,005.7	1,518.0	1.5	7.3	0.0	82.4	471.6	973.2
6/15/2022	103.6	913.5	26.6	26.8	965.0	1,486.8	6.7	7.0	0.0	78.3	487.6	911.4
6/16/2022	148.5	940.2	26.7	26.9	1,005.3	1,550.8	6.7	7.4	0.0	81.0	473.5	936.9
6/17/2022	6.1	940.1	26.7	26.8	1,016.8	1,545.4	1.4	7.4	0.0	70.5	473.0	1109.6
6/18/2022	133.7	154.2	26.6	26.8	929.8	1,097.1	1.4	1.6	0.0	0.0	795.8	943.1
6/19/2022	125.8	134.1	26.5	26.6	901.2	930.5	1.6	1.7	0.0	0.0	775.1	796.7
6/20/2022	121.5	130.0	26.5	26.6	890.6	902.1	1.5	6.8	0.0	0.0	760.6	776.0
6/21/2022	125.3	134.7	26.6	26.7	883.3	895.4	1.5	6.6	0.0	0.0	752.2	762.1
6/22/2022	127.5	133.1	26.7	26.8	877.8	884.4	5.2	6.3	0.0	0.0	745.1	753.4
6/23/2022	128.3	139.2	26.6	26.7	872.5	878.9	2.0	7.1	0.0	0.0	739.4	746.4
6/24/2022	125.8	138.5	26.5	26.7	865.3	873.7	1.9	2.0	0.0	0.0	738.7	740.9
6/25/2022	120.1	126.0	26.6	26.7	859.0	866.3	1.9	2.0	0.0	0.0	738.4	740.7
6/26/2022	116.0	120.4	26.6	26.7	853.6	860.1	1.9	2.0	0.0	0.0	737.2	740.0
6/27/2022	112.9	116.3	26.5	26.6	848.9	854.6	1.9	2.0	0.0	0.0	735.6	738.6
6/28/2022	110.9	113.3	26.5	26.6	845.1	850.1	1.9	2.0	0.0	0.0	733.9	737.0
6/29/2022	109.9	118.7	26.5	26.7	843.4	846.8	1.9	2.0	0.0	0.0	727.0	735.3
6/30/2022	116.3	123.6	26.6	26.7	843.9	846.7	2.0	2.0	0.0	0.0	722.2	729.1

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

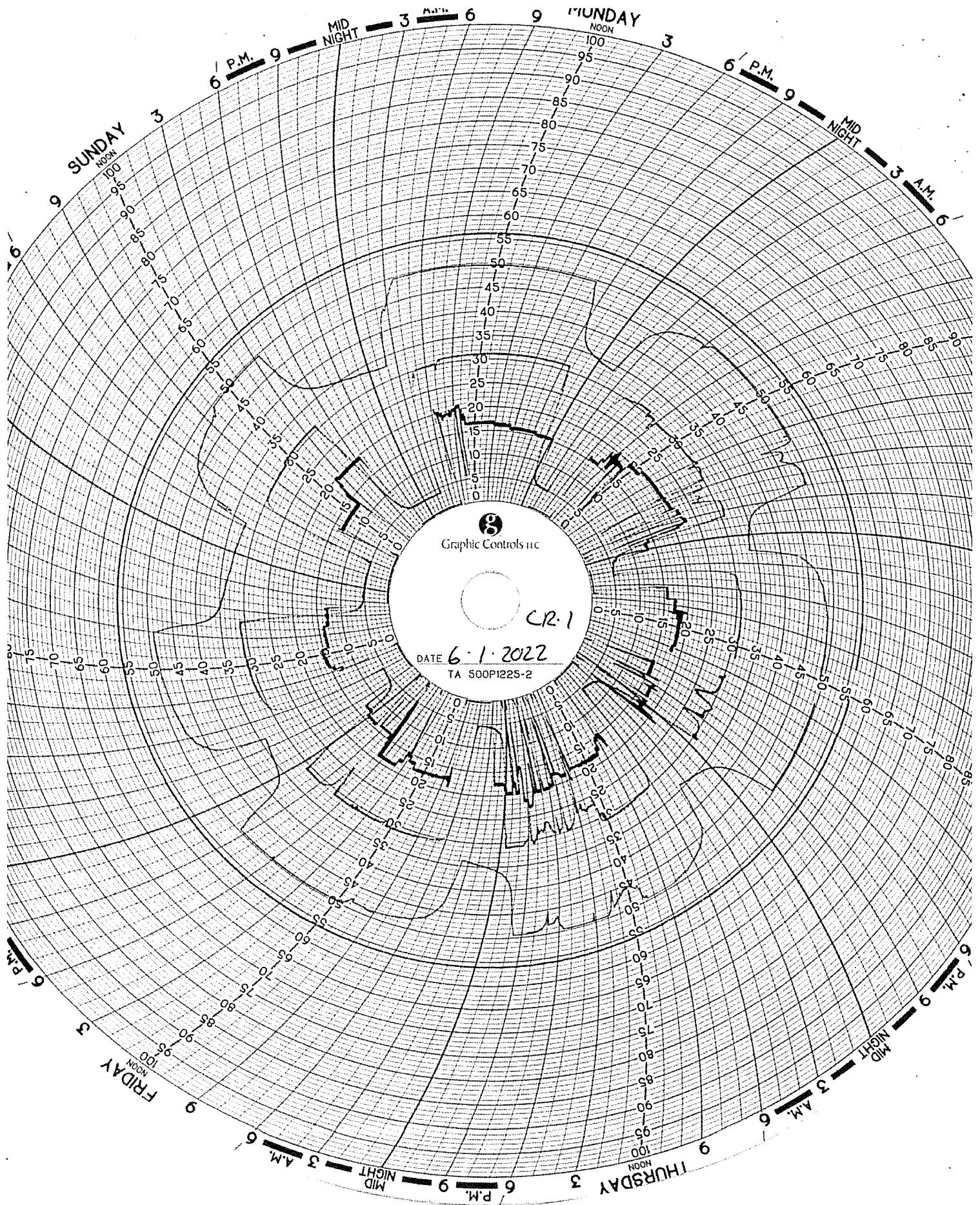
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

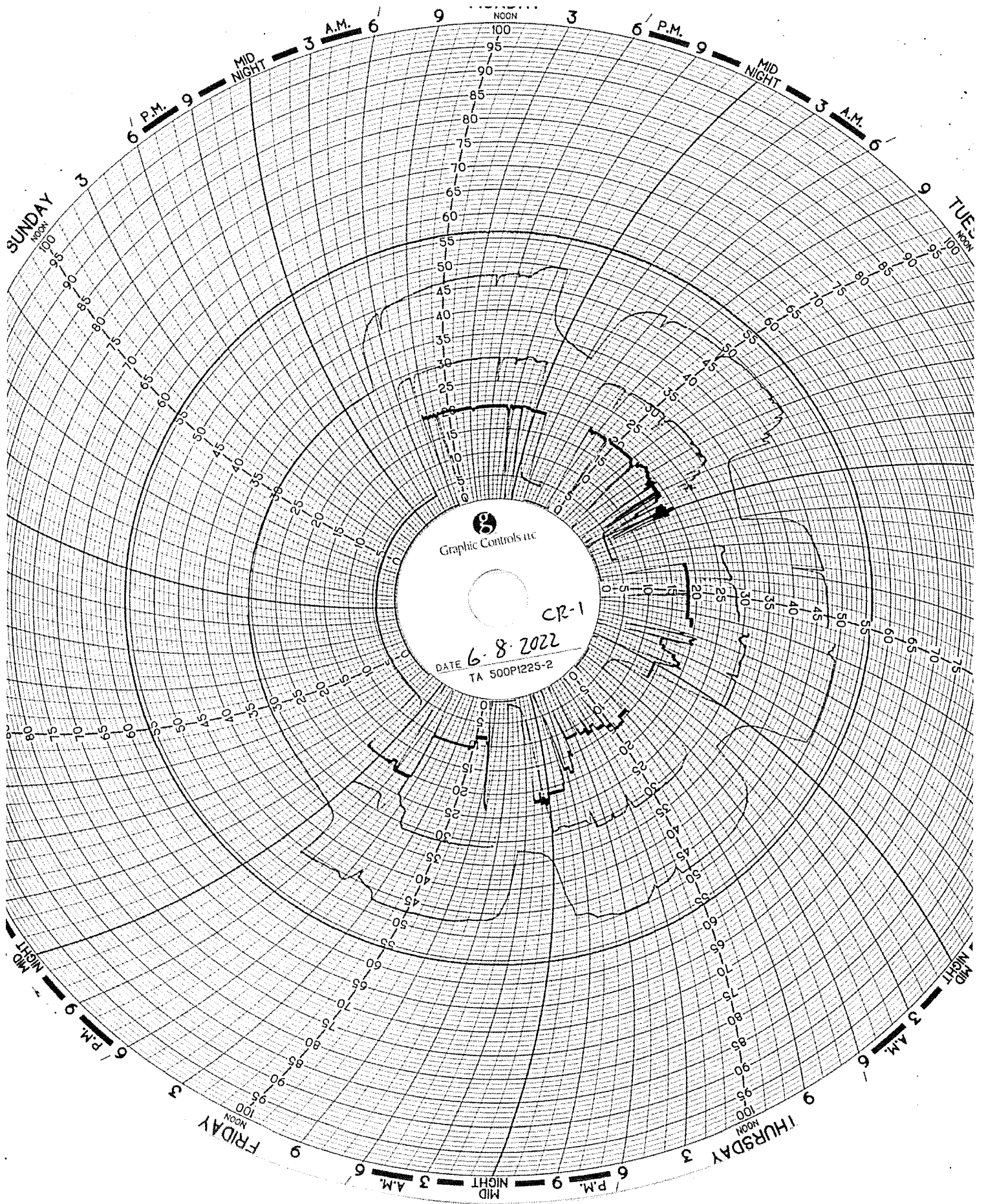
Channel #3

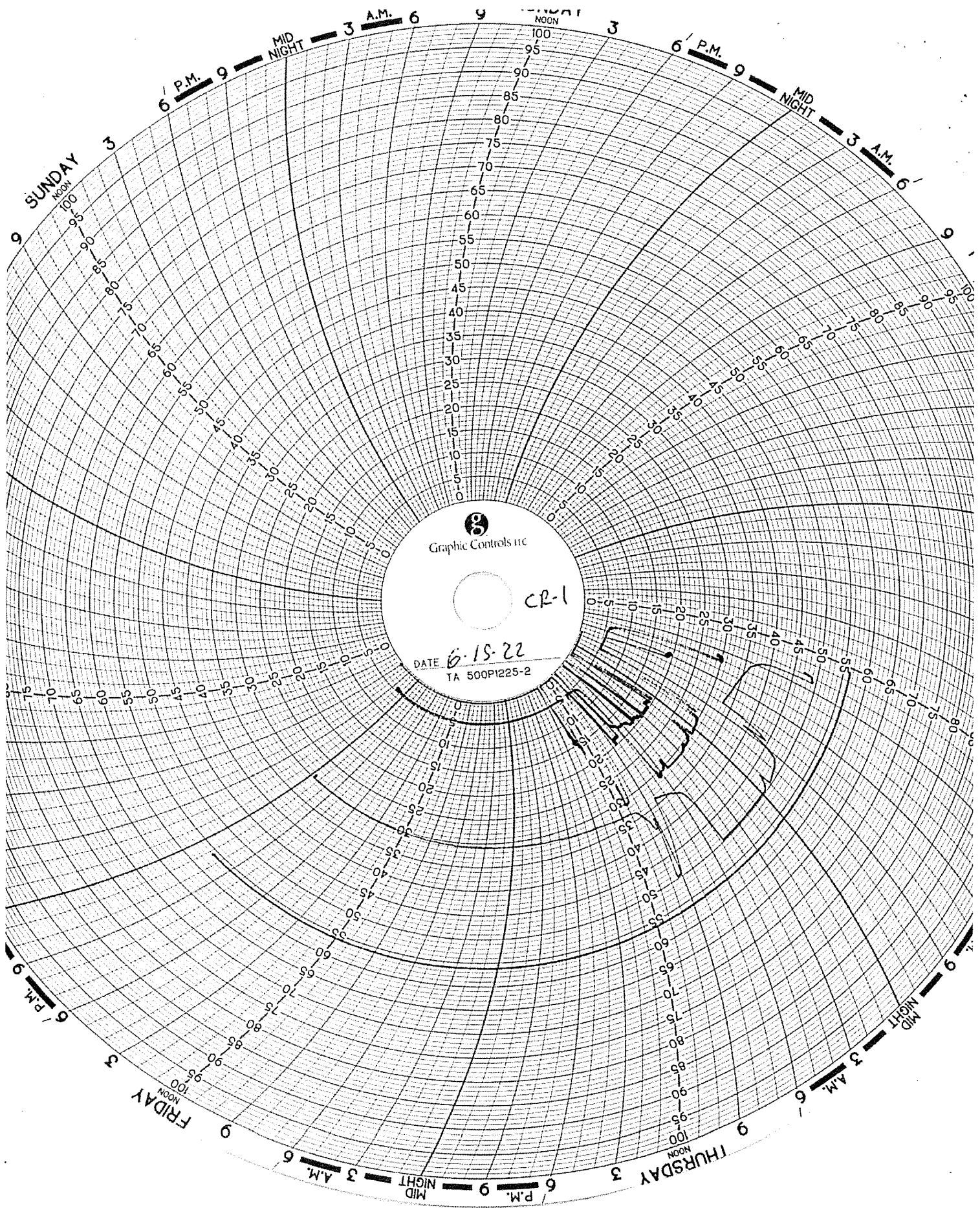
Green Pen — Well 2 Monthly Volume (chart value x 100,000)

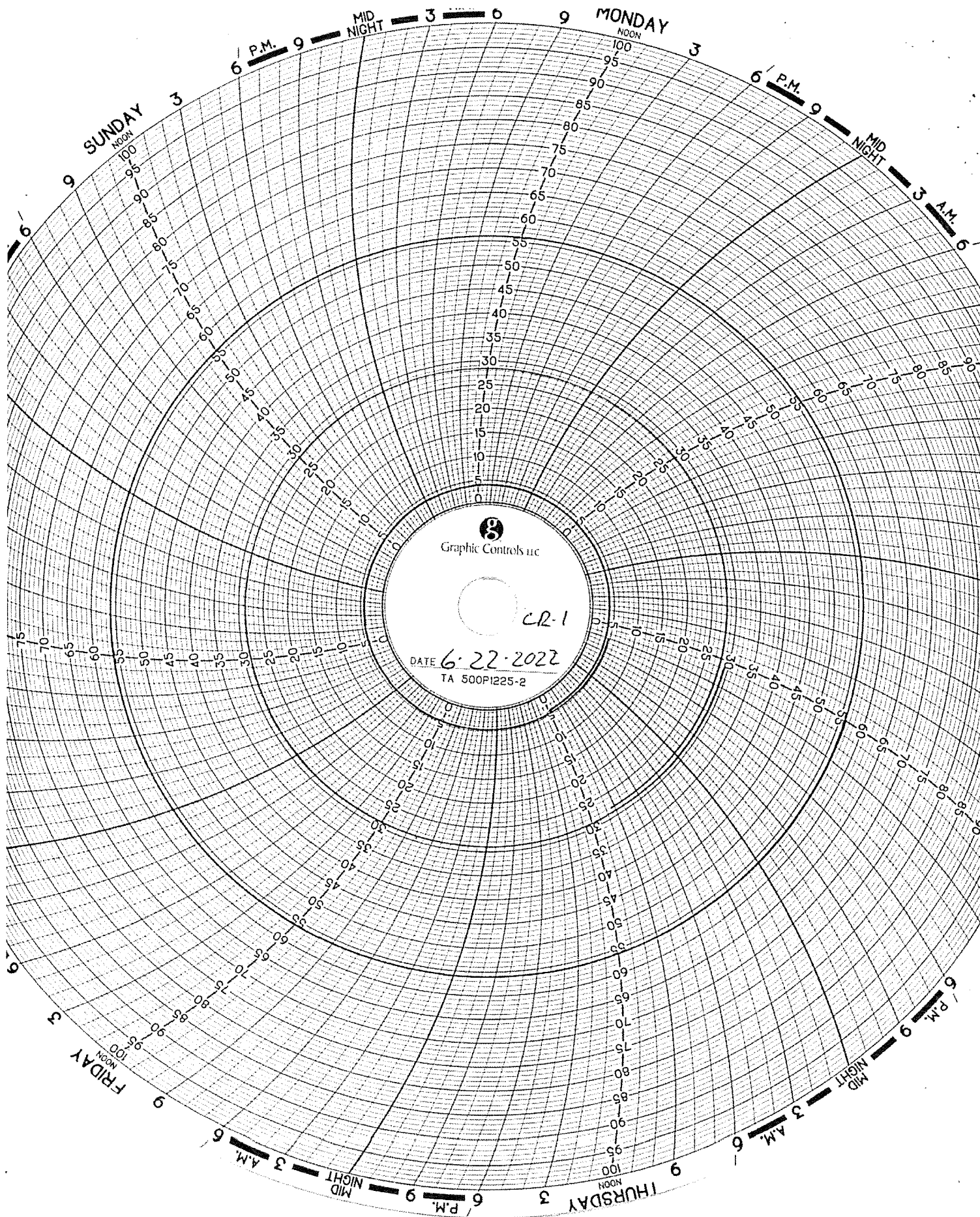
channel *tm*

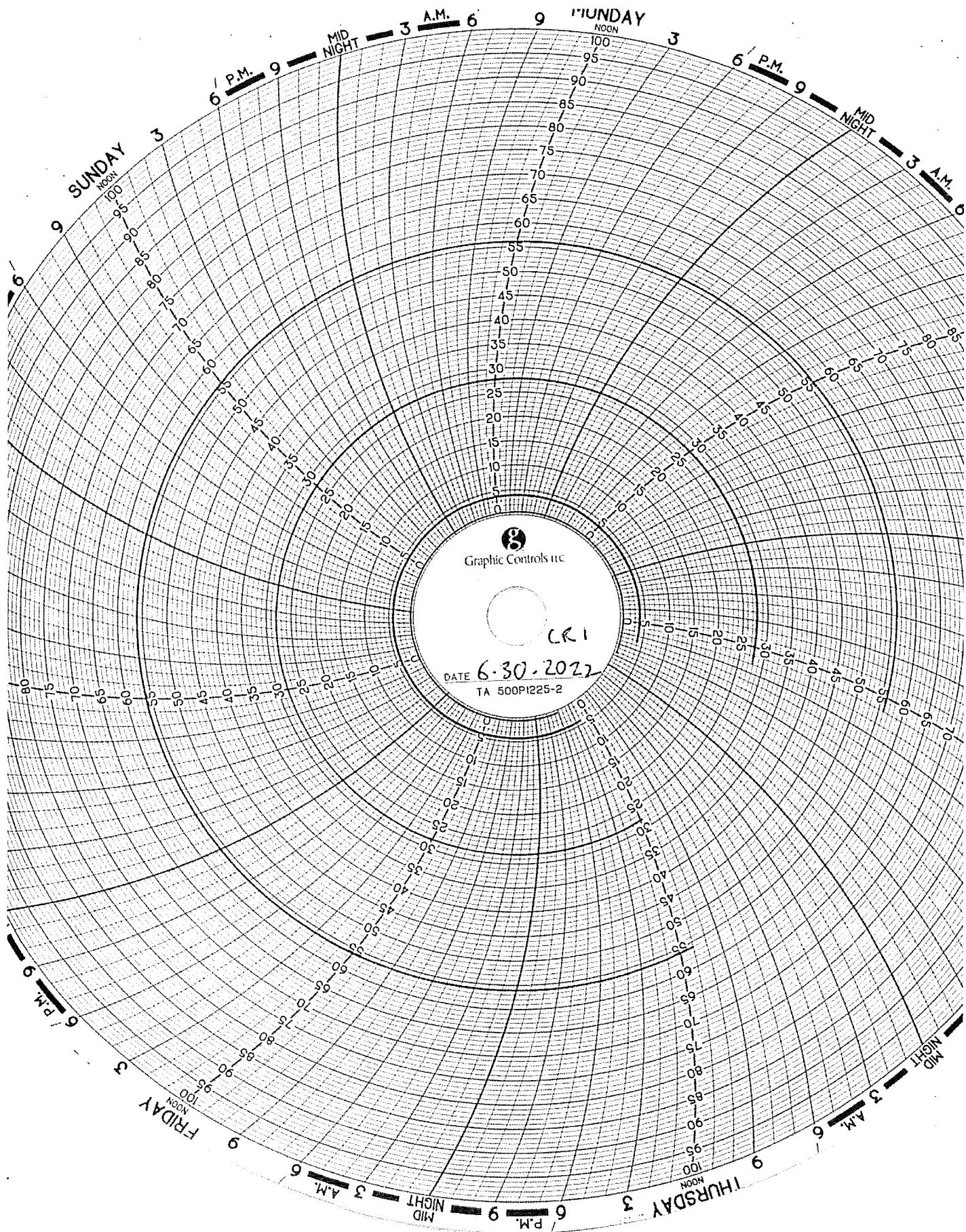
Black Pen — Temperature (chart value x 0)











WELL 2 DATA



Injection Well 2, June 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
6/1/2022	197.7	946.3	32.1	32.8	1240.6	1904.0	1.8	7.3	0.0	92.8	667.1	1045.1
6/2/2022	174.7	942.4	32.4	32.6	1101.4	1736.2	1.4	8.2	0.0	90.3	531.1	1023.4
6/3/2022	177.8	949.7	32.5	32.8	1096.7	1,731.7	2.8	7.4	0.0	80.6	529.1	974.9
6/4/2022	170.6	939.0	32.6	32.8	1081.4	1,573.0	6.9	7.2	0.0	65.6	538.7	967.0
6/5/2022	142.9	863.4	32.6	32.7	997.5	1,368.9	6.4	7.2	0.0	60.1	498.5	911.0
6/6/2022	94.1	143.6	32.5	32.6	976.3	997.9	5.9	7.2	0.0	0.0	841.9	886.7
6/7/2022	-1.6	127.0	32.6	32.6	964.7	977.0	2.6	7.1	0.0	0.0	844.2	968.4
6/8/2022	-1.6	120.8	32.5	32.6	955.1	965.4	2.5	7.2	0.0	0.0	839.8	960.6
6/9/2022	-1.0	1.4	32.5	32.6	950.7	959.9	6.7	7.1	0.0	0.0	949.2	956.7
6/10/2022	-0.3	1.7	32.4	32.5	947.5	952.0	1.6	7.2	0.0	0.0	945.9	951.7
6/11/2022	-0.3	1.7	32.5	32.6	940.7	948.7	1.7	1.8	0.0	0.0	939.3	948.5
6/12/2022	0.1	24.7	32.5	32.6	935.9	941.2	1.8	1.8	0.0	0.0	911.2	940.7
6/13/2022	1.7	942.5	32.5	32.8	896.1	1,610.1	1.8	7.0	0.0	80.8	398.5	933.3
6/14/2022	133.7	940.1	32.6	32.8	1,060.4	1,619.9	1.5	7.3	0.0	85.5	521.2	979.1
6/15/2022	122.2	937.6	32.6	32.9	1,024.5	1,580.9	6.7	7.0	0.0	78.5	519.8	949.6
6/16/2022	169.6	950.1	32.8	32.9	1,073.9	1,635.6	2.3	8.5	0.0	82.1	528.1	980.4
6/17/2022	161.4	948.0	32.8	32.9	1,064.2	1,635.3	1.4	7.4	0.0	69.2	524.3	997.6
6/18/2022	32.9	835.7	32.5	32.8	966.7	1,360.4	1.4	1.6	0.0	79.4	515.7	991.9
6/19/2022	20.8	33.5	32.5	32.6	935.7	967.0	1.6	1.7	0.0	0.0	914.4	934.0
6/20/2022	9.6	929.2	32.5	32.6	919.8	1,606.3	1.5	7.0	0.0	77.1	502.4	1013.1
6/21/2022	125.3	936.7	32.5	32.7	1013.3	1,608.9	6.8	7.0	0.0	77.7	495.5	1019.4
6/22/2022	150.1	939.7	32.7	32.8	1,080.6	1,628.2	6.8	7.1	0.0	75.7	546.0	1015.3
6/23/2022	119.0	940.0	32.6	32.8	1,057.7	1,577.2	1.3	12.8	0.0	81.9	521.2	1025.6
6/24/2022	167.0	916.8	32.5	32.6	1007.5	1,565.3	6.9	7.1	0.0	74.7	544.5	994.4
6/25/2022	165.8	170.6	32.5	32.6	964.0	1007.8	6.9	7.0	0.0	0.0	795.1	837.5
6/26/2022	165.3	169.1	32.6	32.6	947.7	964.4	6.9	6.9	0.0	0.0	781.3	795.5
6/27/2022	161.9	166.5	32.5	32.6	937.4	948.0	6.9	7.0	0.0	0.0	773.6	782.0
6/28/2022	159.7	165.3	32.5	32.6	930.8	937.8	6.9	7.0	0.0	0.0	766.3	775.1
6/29/2022	46.2	934.3	32.5	32.6	897.7	1556.0	6.9	7.2	0.0	70.1	427.7	942.0
6/30/2022	158.0	937.7	32.6	32.7	1032.1	1595.6	6.9	7.2	0.0	70.9	488.2	991.0

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

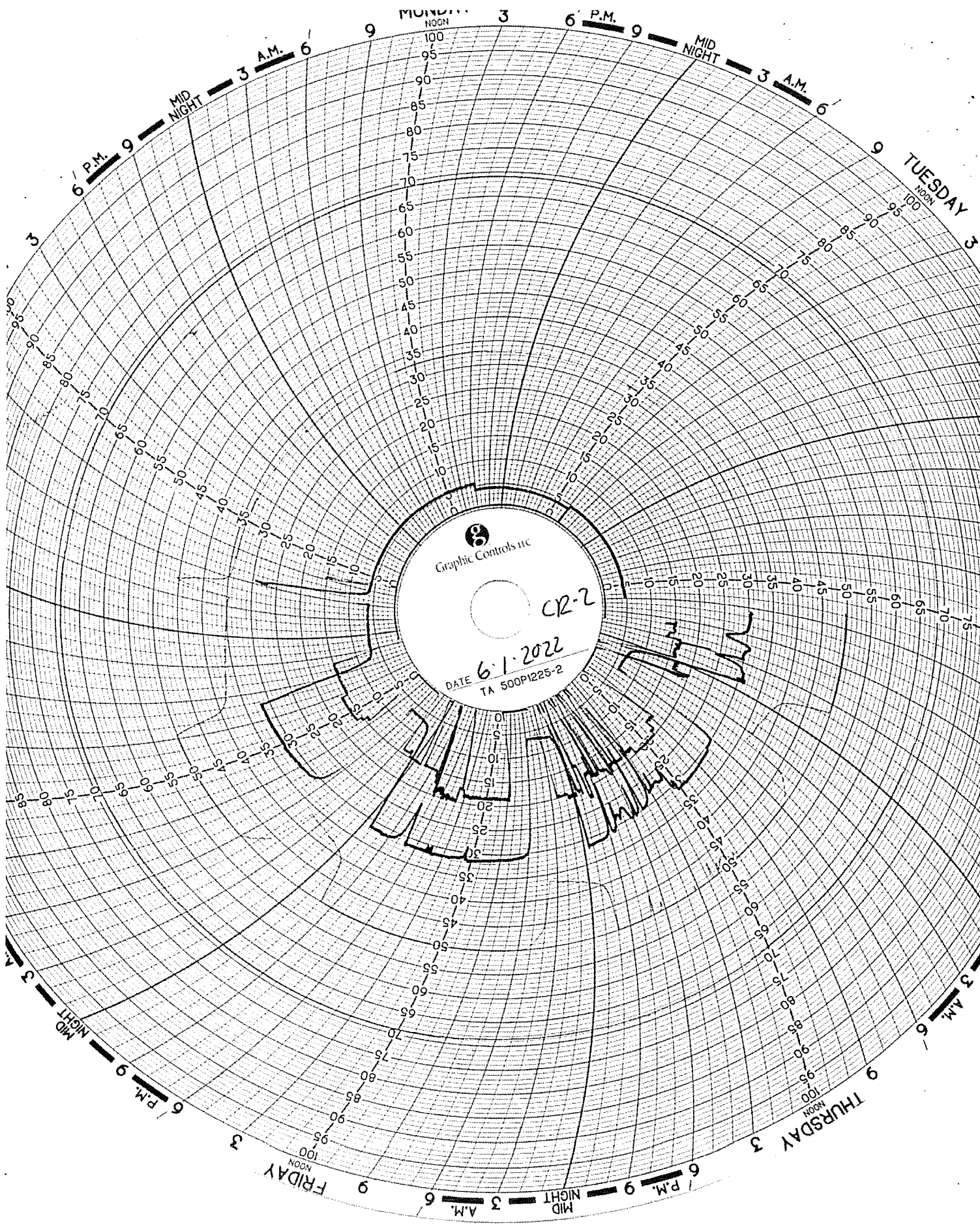
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

channel *tm*

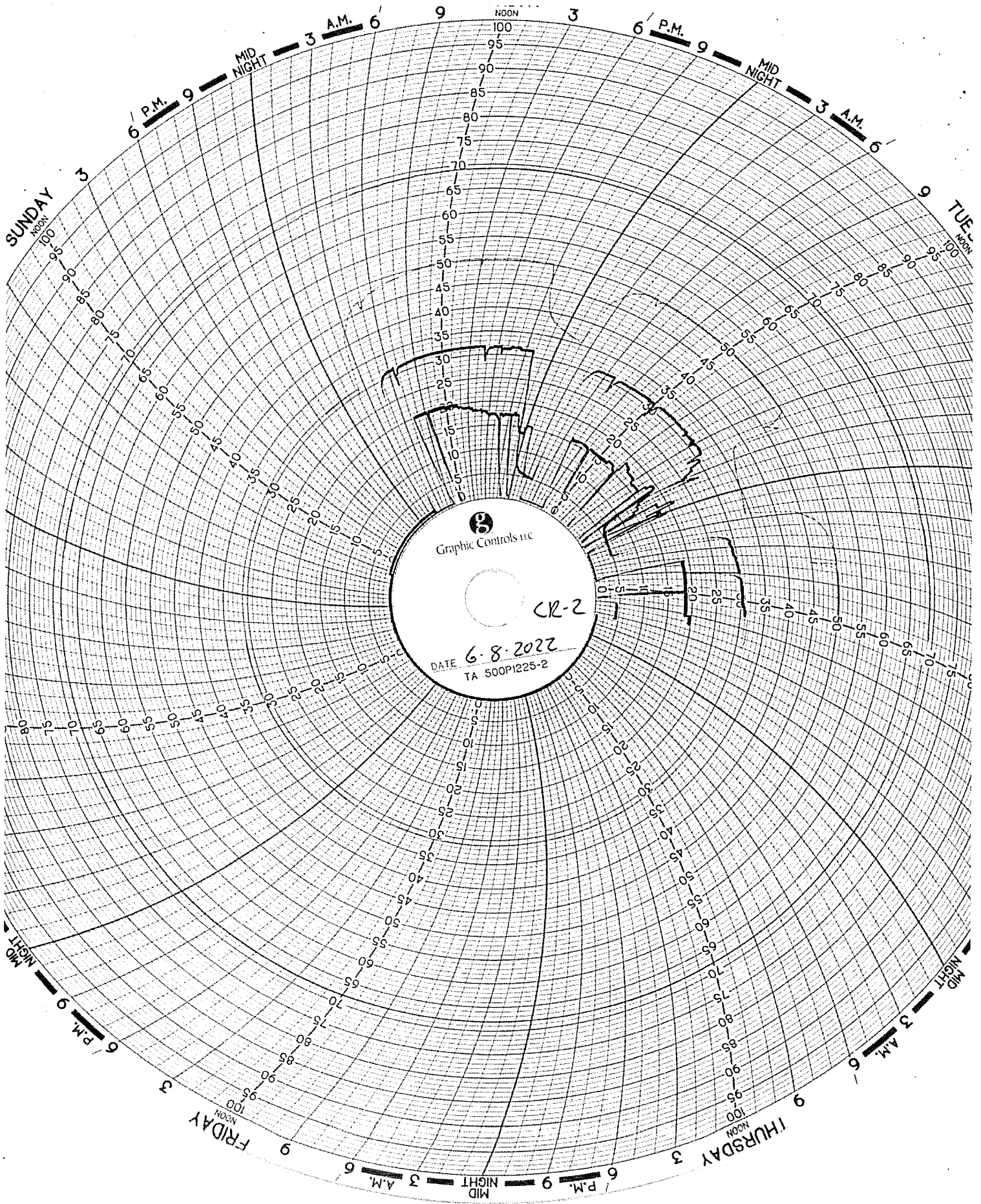
Black Pen — Temperature (chart value x 0)

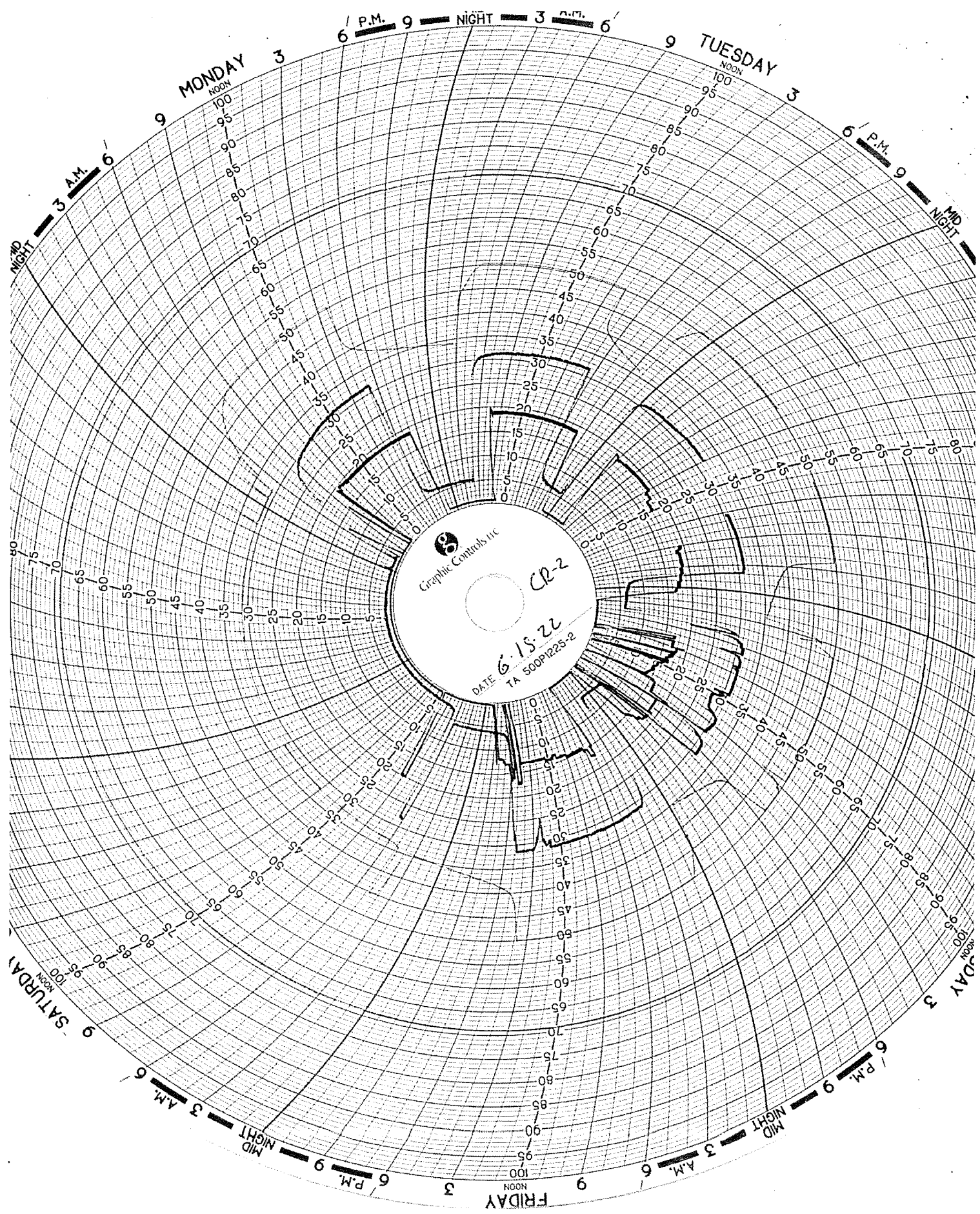


Graphic Controls inc

CR-2

DATE 6.1.2022
TA 500PI225-2

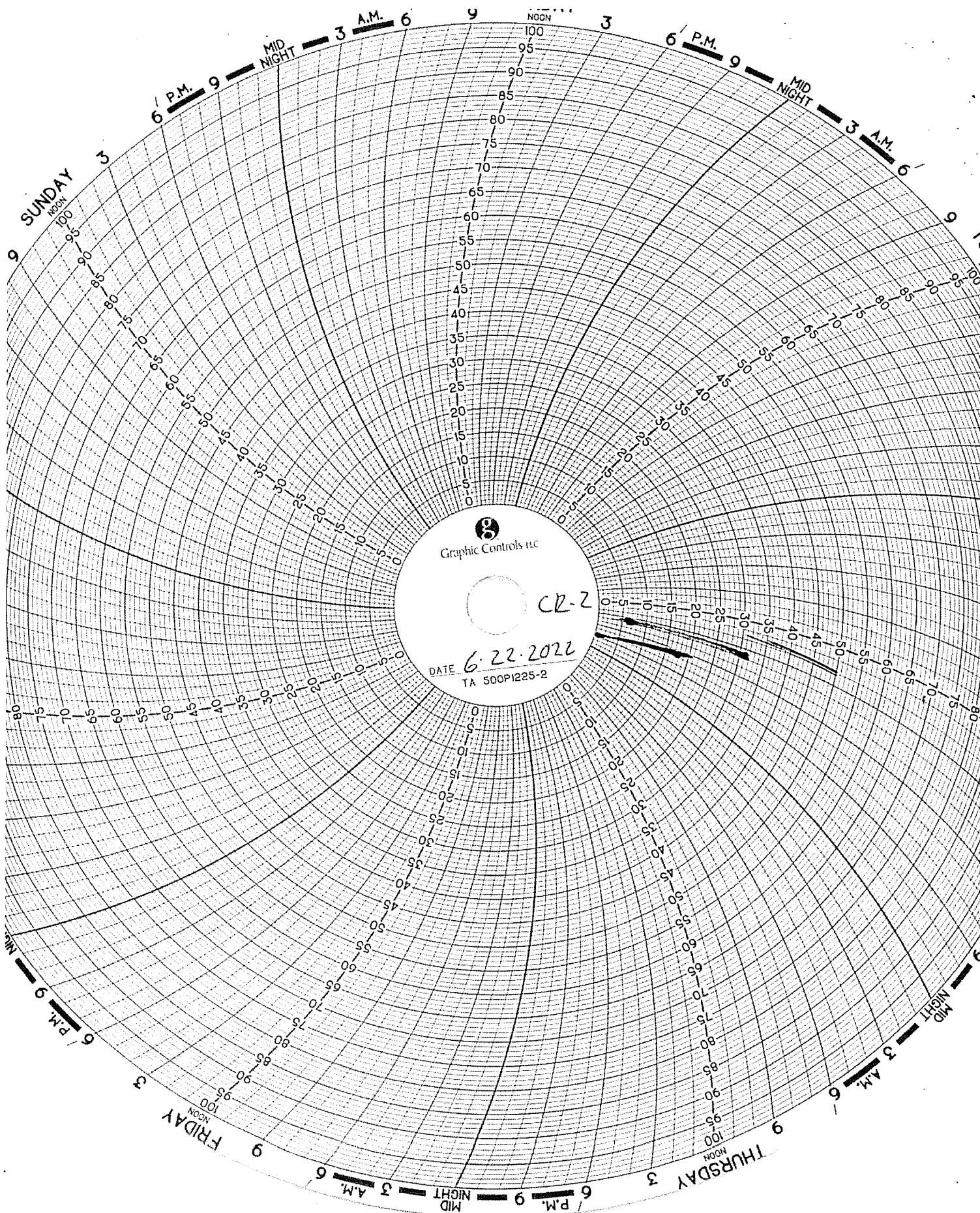


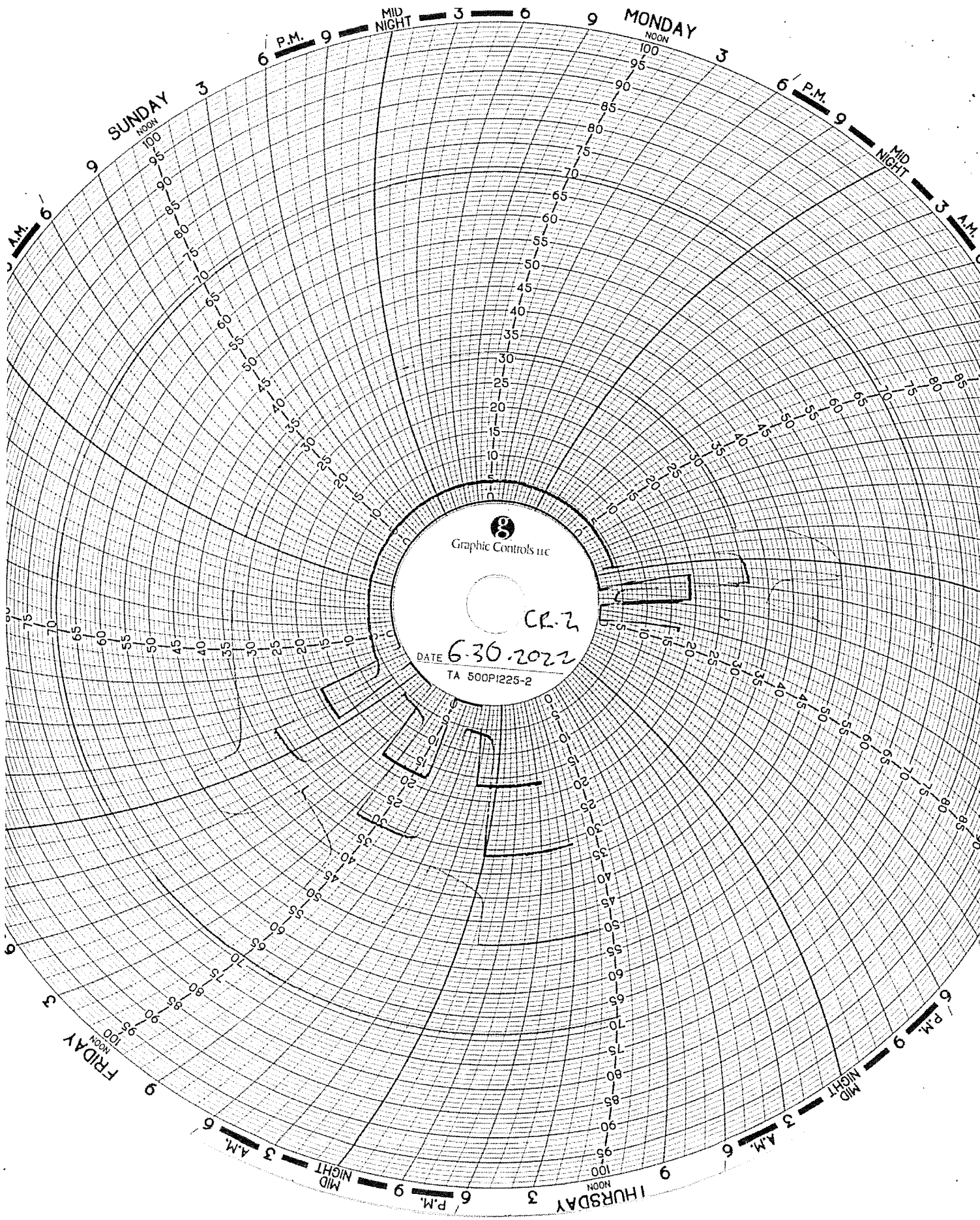


Graphic Controls Inc

CR-2

DATE 6-15-22
TA 500P1225-2





Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

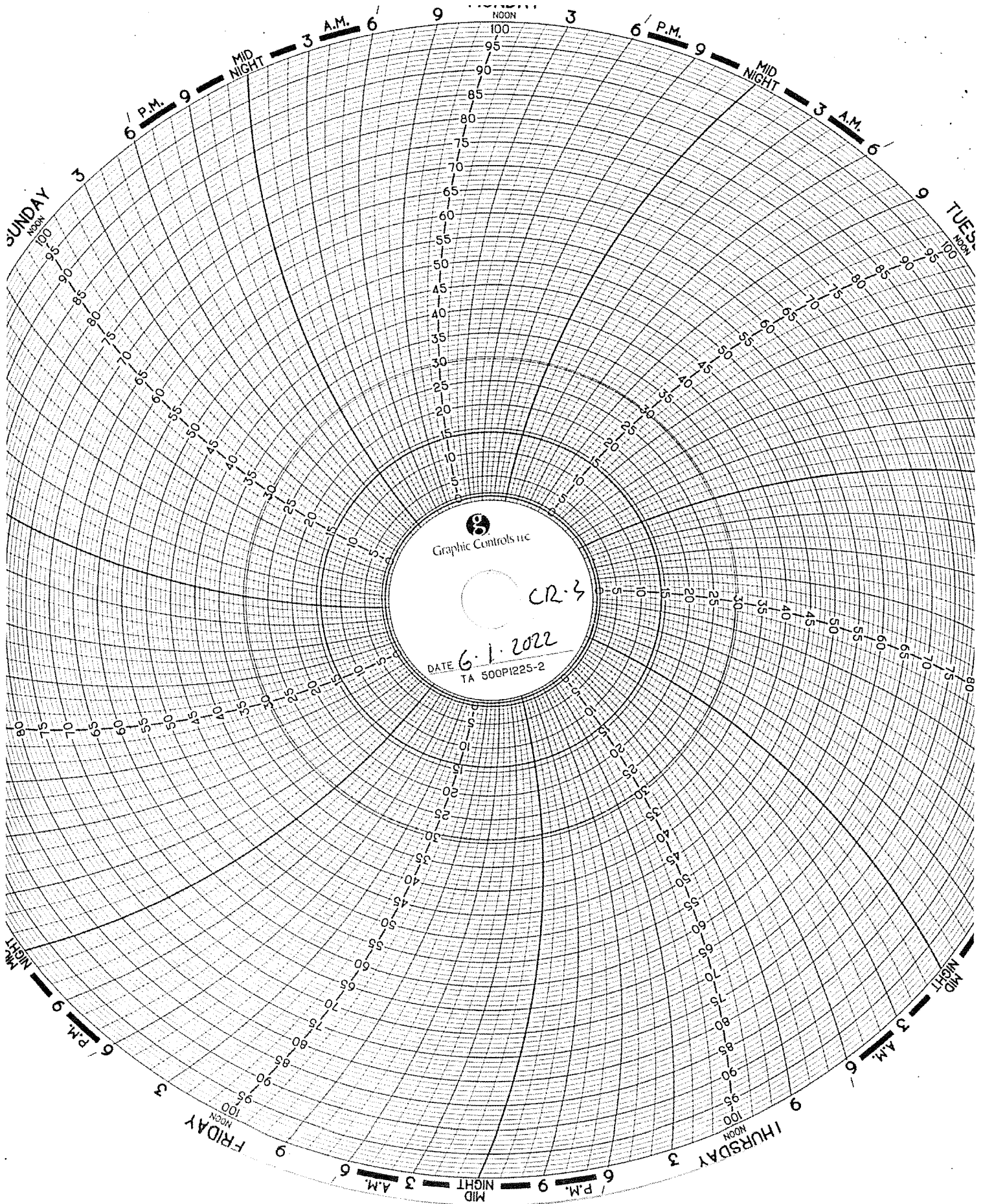
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

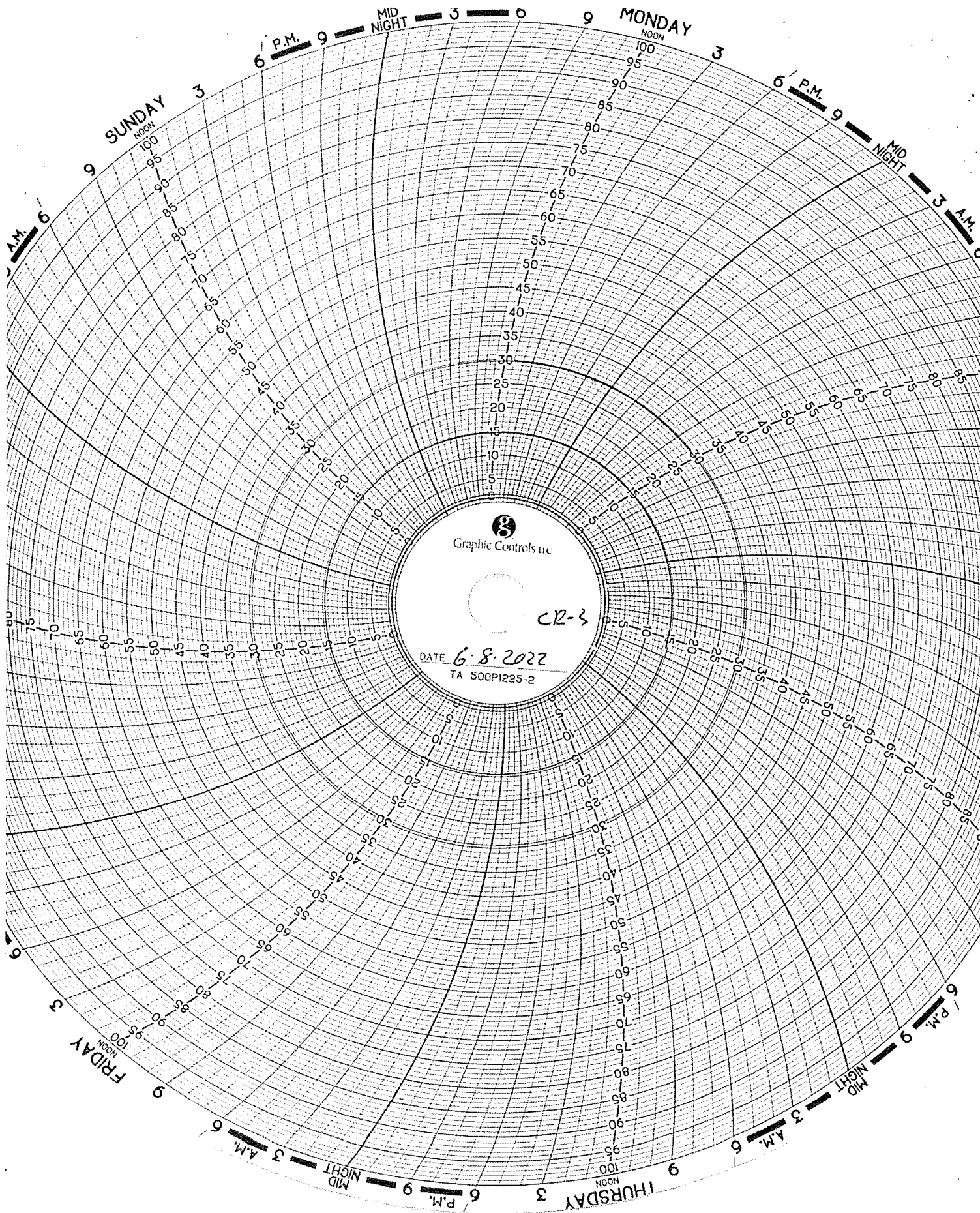
Channel #3

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

channel *tm*

Black Pen — Temperature (chart value x 0)

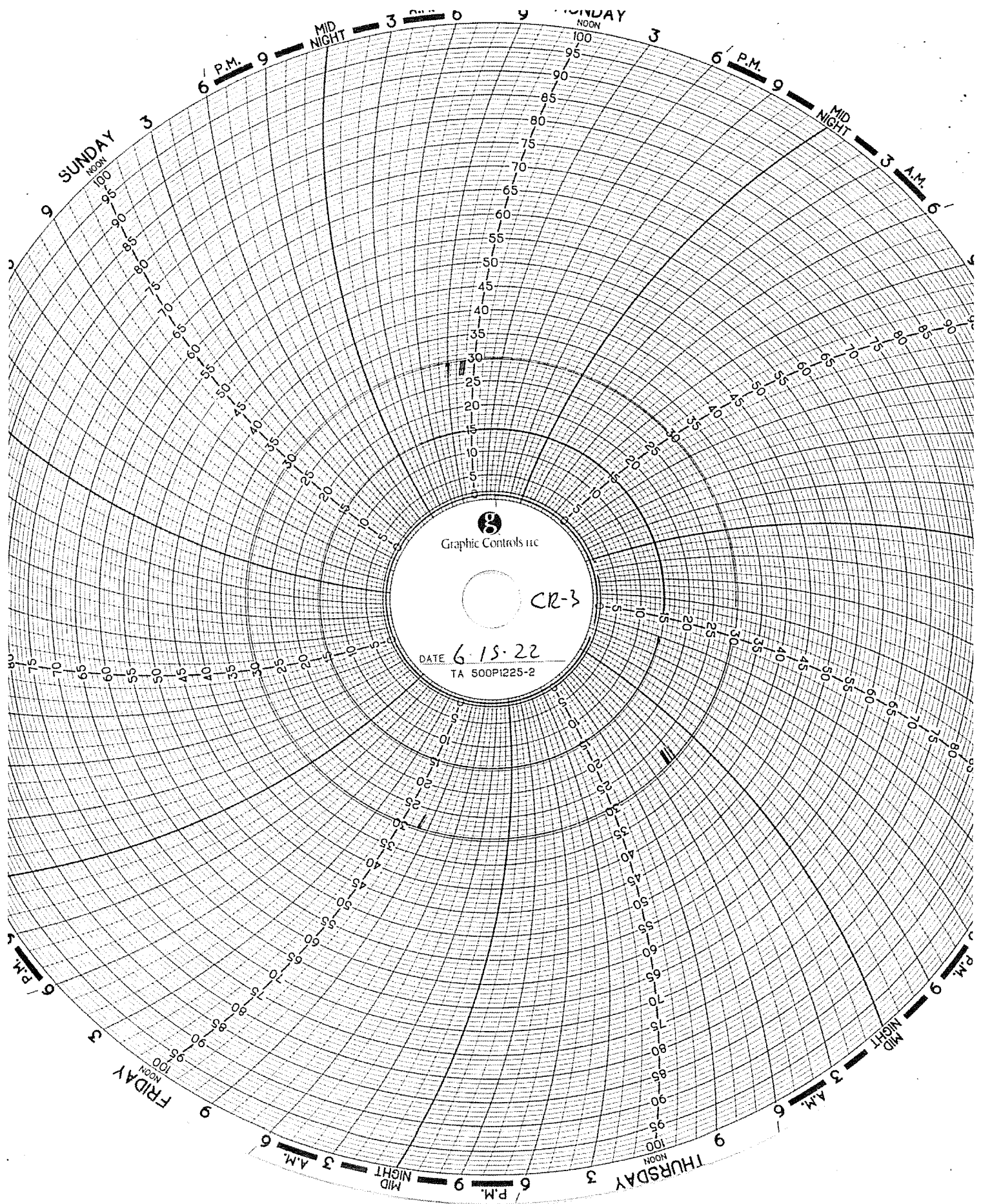


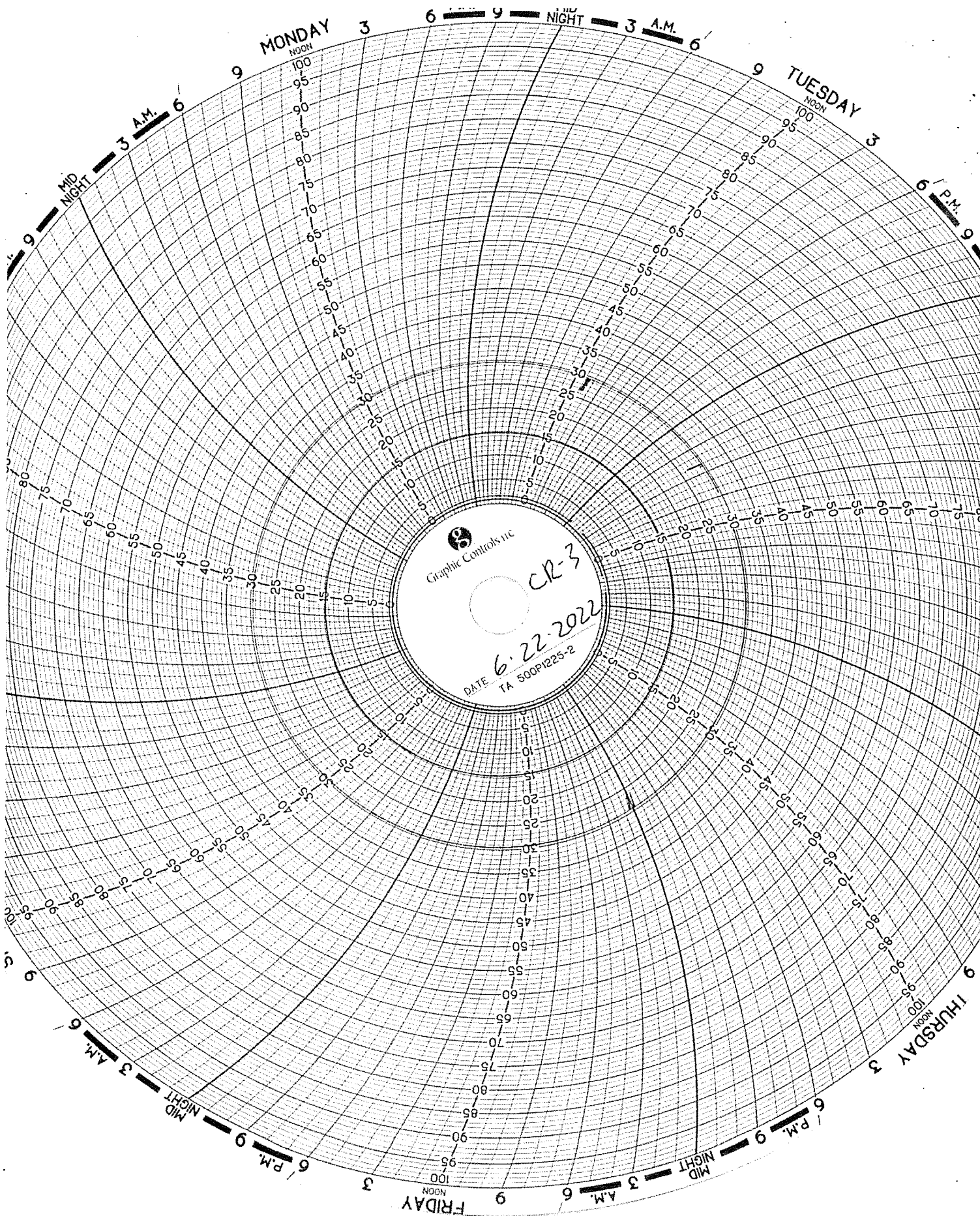


Graphic Controls LLC

CR-3

DATE 6-8-2022
TA 500P1225-2

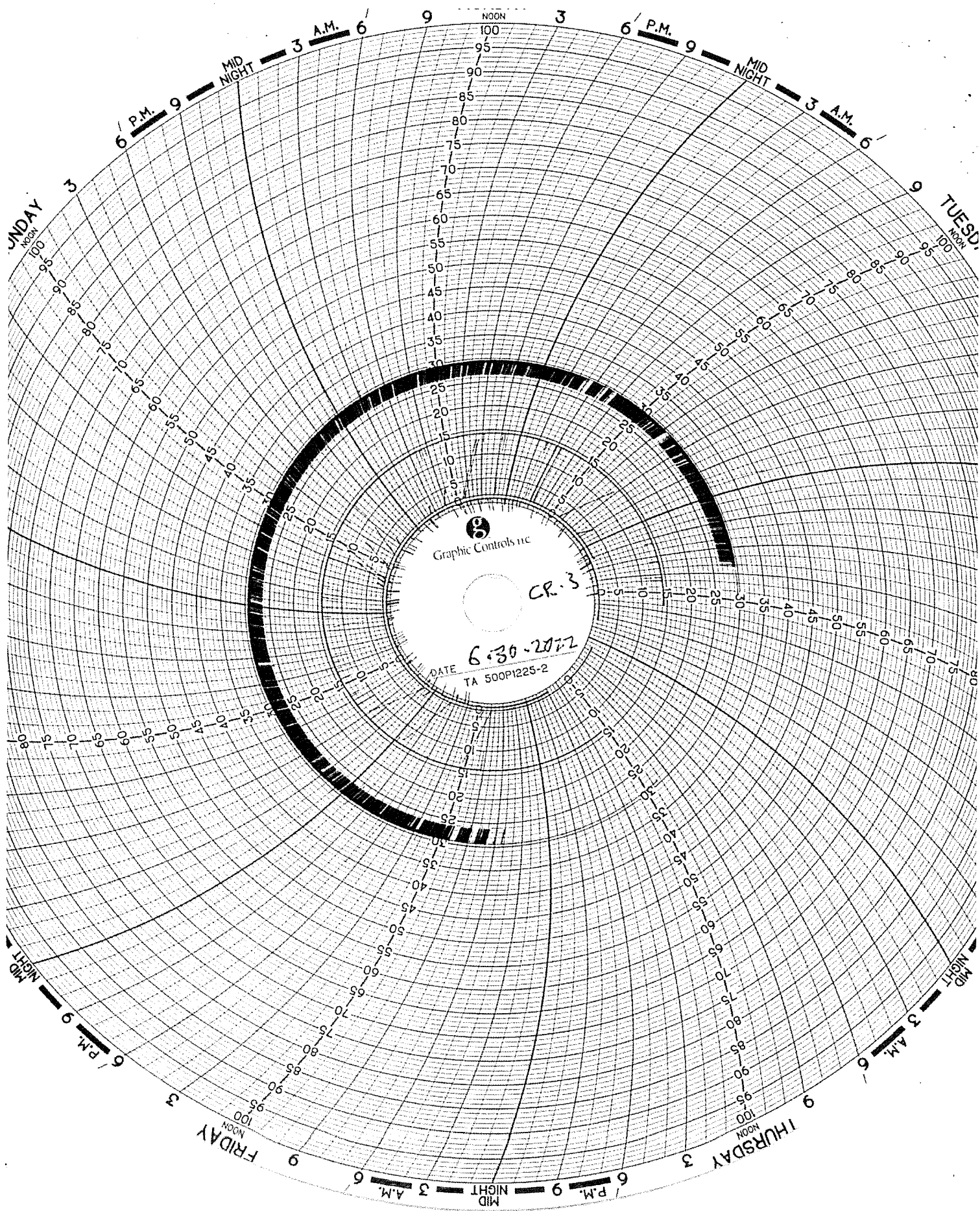




Graphic Controls Inc

CR-3

DATE 6-22-2022
TA 500P1225-2



CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
	(C267)	(316L)	(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	New hastelloy coupon
2/23/2015	13.339 g	9.286 g	7.005 g	
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	New stainless steel coupon
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	
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	New Fiberglass coupon
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	
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	

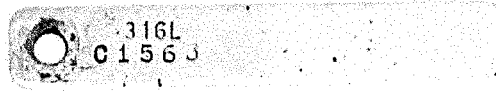
CORROSION MONITORING PLAN
COUPON SUMMARY

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	
3/3/2020	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	9.3	16.219

Date: 06/15/2022
Material: C1563/316L
Weight: 9.300 g.



Date: 06/15/2022
Material: C276 5
Weight: 13.276 g.



Date: 06/15/2022
Material: Fiberglass
Weight: 16.219 g.



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



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

ISO 9001:2008
Registered

A Testing Lab
*Certificate Numbers 255.01 & 255.02

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Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 125322

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

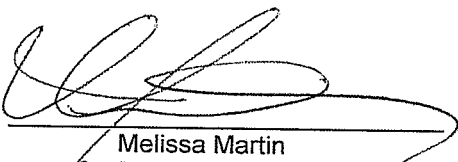
BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant


96

Prepared By:


Melissa Martin
Sr. Project Technician

tc

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

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

Rev 041916

Approved By:

Jim Drummond
Physical Testing, Manager



*Certificate Numbers 255.01 & 255.02

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December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662

SUBJECT: Barcol Hardness on one (1) material.

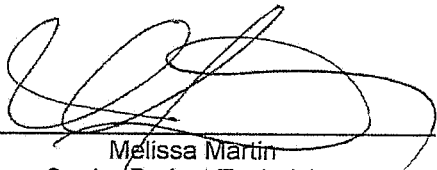
RECEIVED: One (1) small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

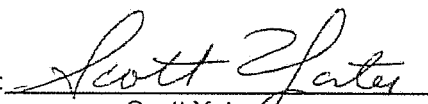
Barcol Hardness, Instant 96

Prepared By:


Melissa Martin
Senior Project Technician

wk

Approved By:


Scott Yates
Plastics Testing, Assistant Manager

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.



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

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



An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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December 13, 2017

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 139140

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

sc

Approved By:

Scott Yates
Plastics Testing, Assistant Manager

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:

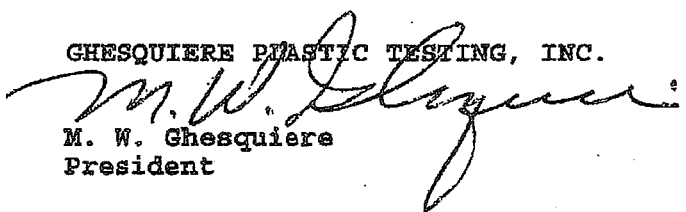
BARCOL HARDNESS

Hardness

Specimen 1	90
------------	----

Specimen is being returned with this report for further evaluation.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/kni

GHSQUIERE 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.

GHSQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.
(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

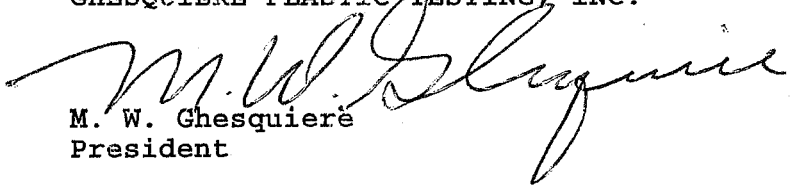
Hardness

Specimen 1

85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

October 2, 2014

• TEST REPORT •

PN 118325


PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

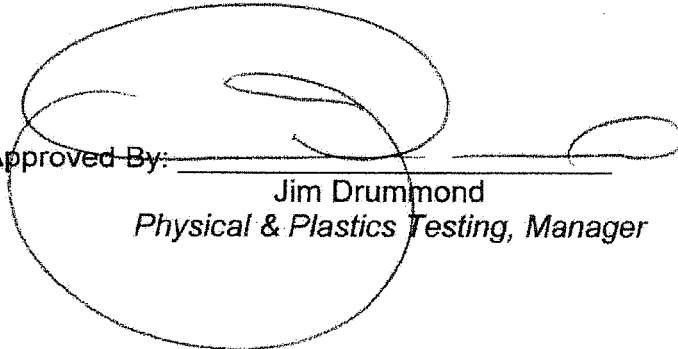
Prepared For:

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

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond
Physical & Plastics Testing, Manager



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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www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

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

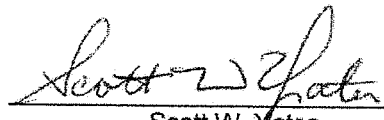
Prepared By:



Melissa Martin
Sr. Project Technician

st

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

BARCOL HARDNESS REPORT

Customer: Republic Industrial and Energy Solutions, LLC

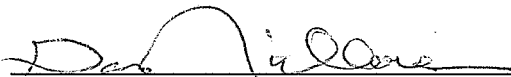
Component Tested: Test Coupon

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

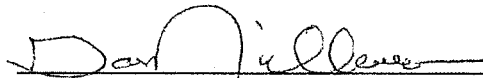
Component Tested: Test Coupon

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
(print or type name)

Date: 10/11/2021

MAINTENANCE

UIC Monthly Maintenance Log

No Maintenance this month

INJECTION FINGERPRINTS

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/30/22
Receiving ID#	806302204
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#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	33.1 mS
% Solids	2.55
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/30/22
Receiving ID#	806302203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	G.H.
Sampled by	BB

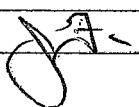
LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	29.0ms
% Solids	0.68
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.


RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/30/22
Receiving ID#	I06302202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	17.74 mS
% Solids	0.69
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/30/22
Receiving ID#	106302201
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)	2140
pH (S.U.)	6.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	17.87 us
% Solids	1.20
Turbidity	Yes No
Color	
TSS (%)	40.0
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/29/22
Receiving ID#	806292204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
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.)	6.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	1829 mS
% Solids	2.27
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. J.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/29/22
Receiving ID#	806292203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. N
Sampled by	BR

LAB INFORMATION	
Compatible? (RT#)	U
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.01
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	26.2 mS
% Solids	2.53
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/29/22
Receiving ID#	106292202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	J.F.

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	287 mS
% Solids	2.62
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/29/22
Receiving ID#	IC6292201
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.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	33.2 mS
% Solids	2.64
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/24/22
Receiving ID#	106242201
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)	2140
pH (S.U.)	7.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	33.2 μ S
% Solids	1.78
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	DM

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/23/22
Receiving ID#	206232204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	g.w.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	33.9 μS
% Solids	2.12
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/23/22
Receiving ID#	Z06 23 22 03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.P.
Sampled by	AW


LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	1.79
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	48.3 mS
% Solids	3.66
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/23/22
Receiving ID#	106232202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. H.
Sampled by	TC

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	102.7 mS
% Solids	5.91
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/23/22
Receiving ID#	106232201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	5:11
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	9.80 μ S
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/22/22
Receiving ID#	80622205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	9
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	34.4 μ S
% Solids	2.38
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/24/22
Receiving ID#	Z06222204
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)	1140
pH (S.U.)	6.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	34.4 mS
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/22/22
Receiving ID#	706222203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JF

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.76
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	29
Conductivity	33.1 mS
% Solids	1.68
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/22/22
Receiving ID#	106222202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	

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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75
Conductivity	35.5 mS
% Solids	1.80
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/22/22
Receiving ID#	50622220
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N.
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	34.2 mS
% Solids	3.29
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/21/22
Receiving ID#	206212204
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#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	35.7 us
% Solids	3.00
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/21/22
Receiving ID#	Z06212203
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#)	6
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	36.5ms
% Solids	2.24
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/21/22
Receiving ID#	206212202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.R.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	80
Conductivity	36.0 mS
% Solids	1.51
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.R.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/21/22
Receiving ID#	106212201
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.)	6.45
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	36.4 us
% Solids	1.76
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/26/22
Receiving ID#	2062022 04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N.
Sampled by	RW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6-8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	35.7 ms
% Solids	1.76
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/20/22
Receiving ID#	106202203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.D.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	34.2 mS
% Solids	2.01
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/20/22
Receiving ID#	106202202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77
Conductivity	34.8 mS
% Solids	1.46
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/20/22
Receiving ID#	I06202201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.93
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	35.5 μ S
% Solids	1.93
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	IOG 172206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	JH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	35.9 mS
% Solids	1.87
Turbidity	Yes No
Color	
TSS (%)	30.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	I06172208
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77
Conductivity	32.3 mS
% Solids	1.14
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	I66172203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	29.2 mS
% Solids	1.72
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	106172204
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.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78
Conductivity	29.5 mS
% Solids	1.81
Turbidity	Yes No
Color	
TSS (%)	60.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	I06172202
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.)	7.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	30.1 ms
% Solids	1.87
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	G.J.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/17/22
Receiving ID#	206172261
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.)	2.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	46.2 mS
% Solids	2.75
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	206 16 22 07
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.P.
Sampled by	AV

Well 2

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	360.3 mS
% Solids	1.92
Turbidity	Yes No
Color	
TSS (%)	60.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.P.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	IO6 16 22 07 SSF-1
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	SJT
Sampled by	DW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	7.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	33.1 us
% Solids	2.75
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	SJT

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	IO6162206 SST-2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(Signature)
Sampled by	(Signature)

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	1140
pH (S.U.)	10.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	32.7 mS
% Solids	1.89
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	(Signature)

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	106162206 SST-1
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	J.T.

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.10
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	28.7 mS
% Solids	10.91
Turbidity	Yes No
Color	
TSS (%)	40.4
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	20616 22 05
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.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	82
Conductivity	35.7 mS
% Solids	1.38
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	206162204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.96
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	35.1 us
% Solids	1.51
Turbidity	Yes No
Color	
TSS (%)	404
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	206162203
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)	5140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	337.5
% Solids	1.14
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	106162202
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)	2140
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)	76
Conductivity	33.7 mS
% Solids	2.44
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/16/22
Receiving ID#	206162201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6-7.9
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76
Conductivity	33.8 mS
% Solids	2.11
Turbidity	Yes No
Color	
TSS (%)	LO.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	Z06152208
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)	7140
pH (S.U.)	6.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76
Conductivity	34.7 mS
% Solids	3.62
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	Z 0615 2207
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	514
pH (S.U.)	6.29
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76
Conductivity	35.6 mS
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	T06152206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77
Conductivity	36.7 mS
% Solids	2.42
Turbidity	Yes No
Color	
TSS (%)	<0.10
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	IO6152205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	
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)	77
Conductivity	35.8 mS
% Solids	2.05
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	206152204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	3360ms
% Solids	1.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	206152202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JH

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	36.4 mS
% Solids	3.34
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	T06152201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	JM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.024
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	33.5 ~ 5
% Solids	2.6)
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	206142209
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.J.
Sampled by	PW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.22
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	> 1000 μ S
% Solids	8.90
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.J.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	706142208
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	35.1 mS
% Solids	4.31
Turbidity	Yes No
Color	
TSS (%)	< 6.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	106142207
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.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.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	360
% Solids	4.19
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	T06142206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. H.
Sampled by	J. H.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	36.7 μ S
% Solids	2.95
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	106142205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. T.
Sampled by	MM

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)	73
Conductivity	35.8 mS
% Solids	1.67
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	106142204
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#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	34.5 μ S
% Solids	2.85
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	106142203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	33.5 mS
% Solids	3.05
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	IO6142202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.P.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	31.8 _{ns}
% Solids	2.47
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/14/22
Receiving ID#	206142261
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.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	31.7 mS
% Solids	1.25
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	206132208
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	20
Conductivity	31.7 mS
% Solids	3.77
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	106132207
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.)	6.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	30.6 mS
% Solids	2.98
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	206132206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
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)	75
Conductivity	31.3 mS
% Solids	2.33
Turbidity	Yes No
Color	
TSS (%)	501
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	206132205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50
Conductivity	299 mS
% Solids	3.14
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/10/22
Receiving ID#	I06102204
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.)	6.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	31.5 mS
% Solids	2.6%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	206132204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	GJT
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78
Conductivity	31.0ms
% Solids	3.8
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	GJT

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	D06132202
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.)	6.68
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	360.05
% Solids	2.40
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/13/22
Receiving ID#	IO6132201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	34.9
% Solids	3.34
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/10/22
Receiving ID#	206102205
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)	7140
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	34.5ms
% Solids	1.95
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/10/22
Receiving ID#	206162203
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.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	34.0ms
% Solids	2.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/10/22
Receiving ID#	206102202
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)	2140
pH (S.U.)	6.94
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	35.1 uS
% Solids	2.63
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/15/22
Receiving ID#	106102201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	35.9 mS
% Solids	2.38
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/9/22
Receiving ID#	I06092204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	J.M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	5.56
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	69.4 mS
% Solids	10.71
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/9/22
Receiving ID#	106092203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	J.T.

LAB INFORMATION	
Compatible? (RT#)	
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	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	400.05
% Solids	5.13
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	J.T.
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/09/22
Receiving ID#	206092202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J. J.
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.)	6.90
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	34.03 μ S
% Solids	4.55
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. J.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/09/22
Receiving ID#	206092201
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)	> 170
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)	68
Conductivity	37.5 ms
% Solids	2.78
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/8/22
Receiving ID#	104082205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	J.F.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	32.8 uS
% Solids	2.45
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/8/22
Receiving ID#	206082204
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.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	39.1 mS
% Solids	3.00
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/08/22
Receiving ID#	806082203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	38.0 mS
% Solids	3.49
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/08/22
Receiving ID#	206082202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M
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.)	6.88
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	67
Conductivity	38.6 mS
% Solids	3.22
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/7/22
Receiving ID#	206 07 22 04
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	P.W.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	79
Conductivity	45.8 mS
% Solids	3.26
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/7/22
Receiving ID#	I 06 07 22 05
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AN

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.92
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	32.6 ms
% Solids	3.25
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/08/22
Receiving ID#	20608-2201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.A.
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.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	38.0 - 5
% Solids	4.10
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.A.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/07/22
Receiving ID#	206072203
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.)	5.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76
Conductivity	55.5 mS
% Solids	3.25
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/07/22
Receiving ID#	206072202
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.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77
Conductivity	41.7
% Solids	3.93
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/6/22
Receiving ID#	206062204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	R.W.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	6.87
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	37.8 ms
% Solids	2.69
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/07/22
Receiving ID#	206072201
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.)	6.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70
Conductivity	36.2 uS
% Solids	4.85
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/6/22
Receiving ID#	I06062203
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.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	75
Conductivity	35.7 us
% Solids	1.58
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/06/22
Receiving ID#	FO6062202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
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.)	6.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	36.5
% Solids	2.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/6/22
Receiving ID#	T06062201
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.)	6.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	38.5 mS
% Solids	3.11
Turbidity	Yes No
Color	
TSS (%)	< 0.4
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/5/22
Receiving ID#	Z060S 2202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5,40
pH (S.U.)	6.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	350 mS
% Solids	3.26
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/5/22
Receiving ID#	IO60S 22 01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.D
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	34.3 mS
% Solids	3.34
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.D

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/5/22
Receiving ID#	TC6052203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N.
Sampled by	J.N.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	31.1 mS
% Solids	3.41
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/04/22
Receiving ID#	206042202
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BR

LAB INFORMATION	
Compatible? (RT#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	30.6 mS
% Solids	3.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	GR

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/04/22
Receiving ID#	806042201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>148
pH (S.U.)	6.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	32.4 mS
% Solids	3.86
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/3/22
Receiving ID#	T06032207
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	J.T.

LAB INFORMATION	
Compatible? (RT#)	Y
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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	28.7 mS
% Solids	3.10
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/3/22
Receiving ID#	IO6032206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.44
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	26.4 ms
% Solids	2.03
Turbidity	Yes No
Color	
TSS (%)	<21
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/03/22
Receiving ID#	906032205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.
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.)	7.06
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	47.4 mS
% Solids	3.90
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6/03/22
Receiving ID#	206032204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BH

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78
Conductivity	38.1 mS
% Solids	1.82
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/03-2022
Receiving ID#	406032203
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.)	6.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	30.3 mS
% Solids	1.69
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-2-2022
Receiving ID#	20602 2207
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.)	6.84
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	35.9 mS
% Solids	2.08
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-2-2022
Receiving ID#	106022206
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.)	4.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.08
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	68
Conductivity	72.1 μ S
% Solids	8.15
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/03-2022
Receiving ID#	206032202
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)?	1
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	35.5ms
% Solids	2.82
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/03-2022
Receiving ID#	206032201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RB

LAB INFORMATION	
Compatible? (RT#)	4
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)	69
Conductivity	35.8 mS
% Solids	4.22
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/02-2022
Receiving ID#	206022205
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#)	4
PCBs (ppm) (Oily Waste Only)?	1
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72
Conductivity	97.4 mS
% Solids	5.48
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/02-2022
Receiving ID#	206022204
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#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	10.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73
Conductivity	36.0ms
% Solids	1.69
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-2-22
Receiving ID#	IO0072203
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.N.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.77
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71
Conductivity	36.2ms
% Solids	1.70
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.N.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/02-2022
Receiving ID#	806022202
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#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.83
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	25.6 mS
% Solids	2.65
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. H

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/02-2022
Receiving ID#	106022201
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	BP

LAB INFORMATION	
Compatible? (RT#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.81
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	33.46 mS
% Solids	2.51
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-1-22
Receiving ID#	20601 2206
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.R.
Sampled by	AV

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.98
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	72.2 us
% Solids	7.70
Turbidity	Yes No
Color	
TSS (%)	LOJ
Radiation Screen (as needed)	
Lab Signature/Initials	J.R.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-1-2022
Receiving ID#	206012205
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	AW

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	3.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	51.5 mS
% Solids	3.21
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	AW

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-1-22
Receiving ID#	106012204
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.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	69
Conductivity	52.9 mS
% Solids	3.26
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 #
6440226646

Expiration Date
4/4/2023

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: CYCLE CHEM INC.

Generator Site Address: 550 INDUSTRIAL DRIVE

City: LEWISBERRY

County:

State: PA

Zip:

Name of Waste: CHROMIC ACID RINSEWATER

Estimated Annual Volume: 10000 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:

Date: 5/19/2022

Name (Printed): Stephen Brown

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:

Date:

6/10/22

Name (Printed):

John Frost

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr. Romulus, MI 48174 Telephone 734 946 1000 Fax 734 946 1002

GENERATOR WASTE PROFILEProfile # 6440226646**GENERATOR INFORMATION**

Name Cycle Chem, Inc USEPA ID # PAD 067098822
Facility Address: 550 Industrial Drive SIC/NAICS Code: State Code: 562112
City Lewisberry State: PA Zip Code 17339
Contact: Troy Taylor Title: O.m. Phone: (717) 938-4700 Fax: (717) 938-3301

BILLING INFORMATION☒ SAME AS ABOVE

Company Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Attention: _____ Title: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Chromic Acid Rinsewater

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

chrome plating → water rinse of chrome plated parts**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: D002 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Dark reddish <input type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other: <input type="text"/>
--	--	---	---

pH: ☐ NA ☒ < 2 ☒ 2 - 4 ☒ 4 - 6 ☐ 6 - 8 ☐ 8 - 10 ☐ 10 - 12.5 ☐ > 12.5Liquid Flash Point: ☐ < 73°F ☐ 73 - 100°F ☐ 101 - 140°F ☐ 141 - 200°F ☒ > 200°F ☐ None ☐ Closed Cup ☐ Open CupVOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
-------------	-----	-----	-------------	-----	-----

Water	80	100			
Chromic acid	1	30			
lead	0.05	0.1			

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/> <5	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/> <100	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/> <1	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/> <5	ppm 10
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input type="checkbox"/> <5	ppm 10
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/> <0.2	ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/> <1	ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/> <5	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 10 lbs
 3. DOT Shipping Name Waste Corrosive Liquids, toxic, nos Hazard Class 8(6.1) UNNA 2922
 PG II ERG Hazardous Constituents for "n.o.s." Chromic acid, lead
 4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
 5. Number of Units to Ship Now 5,000 g 6. Anticipated Volume / Units per Year: 10,000 g or ☐ One Time
 8. Special Handling Requirements including PPE: acid suit, boots, gloves, full face supplied air respirator

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: Tara Pennington Title: Asst GM
 Generator's Signature: Tara Pennington Date: 4/4/22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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. grab 2. rinsetank at Cleveland Brothers
 SAMPLING METHOD COLLECTION POINT

3. Kami Labell, Account Exec, cycle chem
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 411 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
<u>Kami Labell</u>			<u>Tara Pennington</u>		

Tara Pennington



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440226645	Expiration Date 3/29/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: CYCLE CHEM, INC.			
Generator Site Address: 550 INDUSTRIAL DRIVE			
City: LEWISBERRY	County: <input type="text"/>	State: PA	Zip: <input type="text"/>
Name of Waste: AMZ PLATING BATH WASTE			
Estimated Annual Volume: 20,000 Gallons			

II. Special Waste Department Decision:

☒ Approved ☐ Rejected

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

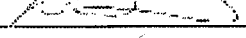
Problematic Special Waste according to Republic? ☐ Yes ☒ No

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: 
Date: 5/19/2022

Name (Printed): KEITH DIAMANTI

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): JOHN FROST

Date: 6.13.22

154.4 J
Req # 40334

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # 6440226645

GENERATOR INFORMATION

Name: Cycle Chem, Inc. USEPA ID # PAD067098822
Facility Address: 550 Industrial Drive SIC/NAICS Code: 562112
City: Lewisberry State: PA Zip Code: 17339
Contact: Troy Taylor Title: O.M. Phone: (717) 938 4700 Fax: (717) 938 0976

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Attention: _____ Title: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

AMZ Plating bath waste

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Changeover of electroless nickel bath plating solutions.

No cyanides used in this process. Not an F-listed RCRA waste stream.

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: D006 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.12</u>
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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 <=> 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Ammonium Hydroxide	6	10	Sodium Hypophosphite	10	15
Nickel sulfate	8	10	Water	65	75
Sodium Hydroxide	1	1	Cadmium 2.0 mg/L		

Lead 100 mg/L

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5	ppm	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100	ppm	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1	ppm	2.0 ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5	ppm	ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5	ppm	100 ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2	ppm	ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	<1	ppm	ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	<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 ~~10~~ 10

3. DOT Shipping Name Hazardous waste liquid n.o.s. Hazard Class 9 UNNA 3082

PG III ERG 171 Hazardous Constituents for "n.o.s." Lead, Cadmium

4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes

5. Number of Units to Ship Now 5,000 gal 6. Anticipated Volume / Units per Year: 20,000 gal or ☐ One Time

6. Special Handling Requirements including PPE:
No special handling PPE required

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: Jay Perez Title: Specialist

Generator's Signature: [Signature] Date: 3/29/22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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. Grab/colinasa 2. tanker truck at Lewis berry, PA
 SAMPLING METHOD COLLECTION POINT

3. jason lesnak, supervisor, cycle chem
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. #1 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
<u>Tara Pennington</u>		<u>AGM</u>			



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440227265	Expiration Date 3/14/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: WOODARD			
Generator Site Address: 210 S. DELANEY RD			
City: OWOSSO	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: ALUMINUM WASH WATER			
Estimated Annual Volume: 20000 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: 

Date: 6/3/2022

Name (Printed): Stephen Brown

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: 

Date: 6.9.22

Name (Printed): John Frost

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # _____

GENERATOR INFORMATION

Name: Woodard USEPA ID # MIR000014373
Facility Address: 210 S. Delaney Rd SIC/NAICS Code: 337110
City: Owosso State: MI Zip Code: 48867
Contact: Steve Inhulsen Title: _____ Phone: (517) 725-4452 Fax: (517) _____

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:

Aluminum Wash Water

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Waste generated from the acid cleaning stage of the zirconium conversion coating process on aluminum.Sample ID: S23325.01 Sample Date: 4/19/21S.I. 6/2/22**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: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 — 1.2 <input type="checkbox"/> 0.8 — 1.0 <input type="checkbox"/> 1.3 — 1.4 Exact / Other <input type="text"/>
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pH: ☐ NA ☐ < 2 ☐ 2 — 4 ☒ 4 — 6 ☐ 6 — 8 ☐ 8 — 10 ☐ 10 — 12.5 ☐ > 12.5Liquid Flash Point: ☐ < 73°F ☐ 73 — 100°F ☐ 101 — 140°F ☐ 141 — 200°F ☒ > 200°F ☐ None ☐ Closed Cup ☐ Open CupVOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
	<input type="text"/>	<input type="text"/>		<input type="text"/>	<input type="text"/>
CM-5039 Citric Acid Cleaner	3	3			
Water	97	97			

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5 ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1 ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5 ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5 ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2 ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	<1 ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	<5 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 20,000 gal 5,000 gal Anticipated Volume / Units per Year: 5,000 gal 20,000 g or ☐ One Time
 6. Special Handling Requirements including PPE: S.I. 6/2/22

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 Inhulsen Title: Production Manager
 Generator's Signature: [Signature] Date: 3/14/22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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 2. Totes
 SAMPLING METHOD COLLECTION POINT
 3. Chas Petersen
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. EP Rinse Water 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



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440227892	Expiration Date 6/2/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change		
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: LANZEN INC.			
Generator Site Address: 611 NE LIMITS			
City: MANCELONA	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: ALKALINE CLEANER & RINSE WATER			
Estimated Annual Volume: 8000 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: 

Date: 6/14/2022

Name (Printed): KEITH DIAMANTI

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: 

Date: 6-22-22

Name (Printed): JOHN FROST

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILEProfile # 6440227892**GENERATOR INFORMATION**Name: Lanzen Inc. USEPA ID # MID981194780Facility Address: 611 NE Limits SIC/NAICS Code: 332999City: Mancelona State: MI Zip Code: 49659Contact: Marv Seaman Title: _____ Phone: (616) 587-8200 Fax: () _____**BILLING INFORMATION**☐ SAME AS ABOVECompany Name: ERG Environmental ServicesAddress: 13040 Merriman RoadCity: Livonia State: MI Zip Code: 48150Attention: _____ Title: _____ Phone: (734) 437-9650 Fax: (734) 437-7651**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Alkaline Cleaner & Rinse Water

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Alkaline cleaner solution used on aluminum welded parts, plus rinse water.**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: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0—1.2 <input type="checkbox"/> 0.8—1.0 <input type="checkbox"/> 1.3—1.4 Exact / Other <input type="text"/>	
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pH: ☐ NA ☐ < 2 ☐ 2—4 ☐ 4—6 ☒ 6—8 ☐ 8-10 ☐ 10—12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☒ >200°F ☐ None ☐ Closed Cup ☐ Open CupVOC 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**

Water	95	99		
Alkaline Cleaner	1	5		

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/> <5	ppm 1.9 ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/> <100	ppm ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/> <1	ppm ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/> <5	ppm ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/> <5	ppm ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/> <0.2	ppm ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/> <1	ppm ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/> <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-RCRA, Non DOT Regulated Liquid Hazard Class UN/NA

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

4. Method of Shipment: ☒ Bulk Tanker ☒ Vac truck ☐ Rail Car ☐ Drums ☐ Totes5. Number of Units to Ship Now ~4,000 gallons 6. Anticipated Volume / Units per Year: 4,000 - 8,000 gallons 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: Marvin SeamanTitle: Plant ManagerGenerator's Signature: Marvin SeamanDate: 6-2-22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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 _____ 2. Tank _____

SAMPLING METHOD

COLLECTION POINT

3. Terry Atkins, Territory Rep, ERG

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1A-Alkaline Cleaner 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

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/25/22
Receiving ID#	Alkaline Cleaner
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	LANZEN
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	C. J. W.

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	8.88
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.03
Physical Description	liquid
Stream Consistency	(Yes) No
Oil in Sample?	Yes (No)
Temperature (F)	70
Conductivity	15.49 mS
% Solids	2.52
Turbidity	Yes (No)
Color	lt. brown
TSS (%)	0.1
Radiation Screen (as needed)	Neg.
Lab Signature/Initials	

(See lab notes 1 & 4)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
6440227893

Expiration Date
5/6/2023

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: LANZEN INC

Generator Site Address: 611 NE LIMITS

City: MANCELONA

County:

State: MI

Zip:

Name of Waste: ALUMAKLEEN RINSE & SURTEC RINSE

Estimated Annual Volume: 8000 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): Stephen Brown

Date: 6/14/2022

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):

John W Frost

Date: 6.22.22

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 948 1000. Fax 734 946 1002

GENERATOR WASTE PROFILEProfile # 6440227893**GENERATOR INFORMATION**Name: Lanzen Inc. USEPA ID # MID981194780Facility Address: 611 NE Limits SIC/NAICS Code: 332999 State Code: 332999City: Mancelona State: MI Zip Code: 49659Contact: Marv Seaman Title: _____ Phone: (616) 587-8200 Fax: (616) _____**BILLING INFORMATION**☐ SAME AS ABOVECompany Name: ERG Environmental ServicesAddress: 13040 Merriman RoadCity: Livonia State: MI Zip Code: 48150Attention: _____ Title: _____ Phone: (734) 437-9850 Fax: (734) 437-7651**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Alumakleen Rinse & Surtec Rinse

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Water used to rinse off aluminum welded parts after the alumakleen and surtec dip tanks.**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: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0—1.2 <input type="checkbox"/> 0.8—1.0 <input type="checkbox"/> 1.3—1.4 Exact / Other <input type="text"/>
---	---	---	--

pH: ☐ NA ☐ < 2 ☒ 2 — 4 ☐ 4 — 6 ☐ 6 — 8 ☐ 8-10 ☐ 10 — 12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☒ >200°F ☐ None ☐ Closed Cup ☐ Open Cup

VOC CONCENTRATION - <1 _____ 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

Water	98	99	%				%
Alumakleen (Sulfuric Acid, Ammonium Bifluoride, Ethylene Glycol Monobutyl Ether)	0	1	%				%
Surtec (Dipotassium Hexafluoroantimonate)	0	1	%				%

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5	ppm	ppm	
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100	ppm	ppm	
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1	ppm	ppm	
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5	ppm	2.1	ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5	ppm	ppm	
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2	ppm	ppm	
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	<1	ppm	ppm	
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	<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-RCRA, Non DOT Regulated Liquid 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 ~4,000 gallons 6. Anticipated Volume / Units per Year: 4,000 - 8,000 gallons 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: Marvin SeamanTitle: Plant ManagerGenerator's Signature: Marvin SeamanDate: 6-2-22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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 2. Tank
 SAMPLING METHOD COLLECTION POINT

3. Terry Atkins, Territory Rep, ERG
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1C Surface Rinse, 1A Alumskreen 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

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	5/25/22
Receiving ID#	Aluma Klean Rinse
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	Lanzen
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
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.)	3.37
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)	70
Conductivity	2.74 mS
% Solids	<0.1
Turbidity	Yes (No)
Color	Colorless
TSS (%)	<0.1
Radiation Screen (as needed)	Neg
Lab Signature/Initials	J.M.

(See lab Notes ID: 5)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
6440227956

Expiration Date
5/9/2023

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: CYCLE CHEM, INC.

Generator Site Address: 550 INDUSTRIAL DRIVE

City: LEWISBERRY

County:

State: PA

Zip:

Name of Waste: CONCENTRATED ACIDIC SOLUTIONS WITH RCRA METALS

Estimated Annual Volume: 1000 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: [Signature]

Date: 8/15/2022

Name (Printed): KEITH DIAMANTI

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: [Signature]

Date: 6.23.22

Name (Printed): JOHN FROST

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

Profile # 6440227956

GENERATOR INFORMATION

Name: Cycle Chem, Inc. USEPA ID # PAD067098822
Facility Address: 550 Industrial Drive SIC/NAICS Code: 562112
City: Lewisberry State: PA Zip Code: 17339
Contact: Jay Perez Title: Specialist Phone: (717) 938 4700 Fax: (717) 938 0976

BILLING INFORMATION☒ SAME AS ABOVE

Company Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Attention: _____ Title: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Concentrated acidic solutions with RCRA metals

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

G.G.I. Hazardous waste received from offsite for storage /
bulking and transfer offsite for treatment or disposal.**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.) JP 6-15-22
3. List ALL Applicable Waste Codes: D002 D004 D005 D006 D007 D008 D009 D010 D011 K062

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other
--	--	---	---

pH: ☐ NA ☒ < 2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8-10 ☐ 10-12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73-100°F ☐ 101-140°F ☐ 141-200°F ☒ >200°F ☐ None ☒ Closed Cup ☐ Open CupVOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
See attached					
Acidic solutions will be					
>16% acid with >26%					
alkalinity demand					

If Generator knowledge-provide backup ☐ Lab Analysis ☒ Generator Knowledge

☐ TCLP ☒ TOTAL

Arsenic (As)	D004	$\square < 5$	ppm 100	ppm
Barium (Ba)	D005	$\square < 100$	ppm 1000	ppm
Cadmium (Cd)	D006	$\square < 1$	ppm 100	ppm
Chromium (Cr)	D007	$\square < 5$	ppm 20000	ppm
Lead (Pb)	D008	$\square < 5$	ppm 1000	ppm
Mercury (Hg)	D009	$\square < 0.2$	ppm 261	ppm
Selenium (Se)	D010	$\square < 1$	ppm 20000	ppm
Silver (Ag)	D011	$\square < 5$	ppm 100	ppm

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

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

☒ Yes ☐ No

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?

2. Reportable Quantity (RQ) in pounds ~~1000~~ 10

3. DOT Shipping Name RQ, Waste Corrosive liquid, acidic, inorganic, n.o.s. Hazard Class 8 UN/NA 3264

PG II ERG 154 Hazardous Constituents for "n.o.s." Hydrochloric acid, Sulfuric acid

4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Pallets

5. Number of Units to Ship Now 50 6. Anticipated Volume / Units per Year: 1000 or ☐ One Time

6. Special Handling Requirements including PPE: Standard PPE requirement for corrosive liquids

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: Jay Perez Title: Specialist

Generator's Signature: _____ Date: 5/9/2022

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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. _____	2. _____
SAMPLING METHOD	COLLECTION POINT

3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ 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

Supplemental analysis attached. Sample not required. 



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile #
6440227957

Expiration Date
5/11/2023

I. Decision Request:

☒ Initial ☐ Recertification ☐ Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: CYCLE CHEM, INC.

Generator Site Address: 550 INDUSTRIAL DRIVE

City: LEWISBERRY

County:

State: PA

Zip:

Name of Waste: CAUSTIC WASTE CONTAINING RCRA METALS

Estimated Annual Volume: 1000 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: 

Date: 6/15/2022

Name (Printed): KEITH DIAMANTI

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: 

Date: 6/15/2022

Name (Printed): JOHN FROST

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr. Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

GENERATOR WASTE PROFILE

6440227957

Profile # _____

GENERATOR INFORMATION

Name: Cycle Chem, Inc. USEPA ID # PAD067098822
Facility Address: 550 Industrial Drive SIC/NAICS Code: 562112
City: Lewisberry State: PA Zip Code: 17339
Contact: Jay Perez Title: Specialist Phone: (717) 938 4700 Fax: (717) 938 0976

BILLING INFORMATION☒ SAME AS ABOVE

Company Name: _____
Address: _____
City: _____ State: _____ Zip Code: _____
Attention: _____ Title: _____ Phone: () _____ Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Caustic waste containing RCRA metals

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

G.G.I. Hazardous waste received from off-site for storage/
bulking and transfer off-site for treatment or disposal.**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.) JP 6-15-22
3. List ALL Applicable Waste Codes: D002 F006 D004 D005 D006 D007 D008 D009 D010 D011

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input checked="" type="checkbox"/> 1-3 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.0-1.2 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other <input type="text"/>
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pH: ☐ NA ☐ < 2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☒ 8-10 ☐ 10-12.5 ☐ > 12.5Liquid Flash Point: ☐ < 73°F ☐ 73-100°F ☐ 101-140°F ☐ 141-200°F ☒ > 200°F ☐ None ☐ Closed Cup ☐ Open CupVOC CONCENTRATION - ☒ PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	80	90	Sodium Carbonate	20	50
Sodium Hydroxide	20	50	Monoethanolamine	0	5
Potassium Hydroxide	20	50	Sodium hypochlorite	0	13

If Generator knowledge-provide backup ☒ Lab Analysis ☐ Generator Knowledge

☐ TCLP ☒ TOTAL

Arsenic (As)	D004	$\square < 5$	ppm	100	ppm
Barium (Ba)	D005	$\square < 100$	ppm	1000	ppm
Cadmium (Cd)	D006	$\square < 1$	ppm	100	ppm
Chromium (Cr)	D007	$\square < 5$	ppm	250	ppm
Lead (Pb)	D008	$\square < 5$	ppm	500	ppm
Mercury (Hg)	D009	$\square < 0.2$	ppm	261	ppm
Selenium (Se)	D010	$\square < 1$	ppm	10	ppm
Silver (Ag)	D011	$\square < 5$	ppm	50	ppm

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

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 ~~10~~ 10

3. DOT Shipping Name Red Waste corrosive liquid, basic, inorganic Hazard Class 8 UN/NA 3266

PG II ERG 154 Hazardous Constituents for "n.o.s." Sodium Hydroxide mixtures

4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Pallets

5. Number of Units to Ship Now 50 JP 6/15/22 6. Anticipated Volume / Units per Year: 1000 JP 6/15/22 or ☐ One Time

6. **Special Handling Requirements** including PPE:

Standard PPE for corrosive liquids

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: Jan Perez Title: Specialist

Generator's Signature: [Signature] Date: 5/11/2022

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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.

<u>SAMPLING METHOD</u>	<u>COLLECTION POINT</u>
1.	2.

3	SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
---	--

4. Sample No. _____ 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

Supplemental analysis attached. (Dr)



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

	Waste Profile # 6440228070	Expiration Date 4/8/2023	
I. Decision Request:	<input checked="" type="checkbox"/> Initial	<input type="checkbox"/> Recertification	<input type="checkbox"/> Change
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: LANZEN, INC			
Generator Site Address: 611 NE LIMITS			
City: MANCELONA	County: <input type="text"/>	State: MI	Zip: <input type="text"/>
Name of Waste: ZINC PHOSPHATE DIP TANK			
Estimated Annual Volume: 8000 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: 

Date: 6/17/2022

Name (Printed): Stephen Brown

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: 

Date: 6.22.22

Name (Printed): John W. Frost

Republic Industrial and Energy Solutions, LLC

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 948 1000. Fax 734 948 1002

GENERATOR WASTE PROFILE

Profile #

6440228070

GENERATOR INFORMATIONName: Lanzen Inc.USEPA ID # MID981194780Facility Address: 611 NE LimitsSIC/NAICS Code: State Code: 332999City: MancelonaState: MIZip Code: 49659Contact: Marv Seaman

Title: _____

Phone: (616) 587-8200

Fax: () _____

BILLING INFORMATION☐ SAME AS ABOVECompany Name: ERG Environmental ServicesAddress: 13040 Merriman RoadCity: LivoniaState: MIZip Code: 48150

Attention: _____

Title: _____

Phone: (734) 437-9650Fax: (734) 437-7651**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Zinc Phosphate Dip Tank

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Zinc Phosphate dip tank for aluminum welded parts.**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: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 — 1.2 <input type="checkbox"/> 0.8 — 1.0 <input type="checkbox"/> 1.3 — 1.4 Exact / Other <input type="text"/>	
--	--	---	--	--

pH: ☐ NA ☐ < 2 ☒ 2 — 4 ☐ 4 — 8 ☐ 6 — 8 ☐ 8-10 ☐ 10 — 12.5 ☐ >12.5Liquid Flash Point: ☐ <73°F ☐ 73—100°F ☐ 101—140°F ☐ 141—200°F ☒ >200°F ☐ None ☐ Closed Cup ☐ Open CupVOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT

MAX MIN

CONSTITUENT

MAX MIN

Water	84	97		
Zinc Phosphate	3	5		

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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	<5 ppm 1.9 ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<100 ppm ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	<1 ppm ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	<5 ppm 0.64 ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	<5 ppm ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<0.2 ppm ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	<1 ppm ppm
						Silver (Ag)	D014	<input checked="" type="checkbox"/>	<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-RCRA, Non DOT Regulated Liquid 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 ~4,000 gallons 6. Anticipated Volume / Units per Year: 4,000 - 8,000 gallons or ☐ One Time
 8. 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: Marvin SeamanTitle: Plant ManagerGenerator's Signature: Marvin SeamanDate: 6-2-22

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample 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 2. Tank
 SAMPLING METHOD COLLECTION POINT
 3. Terry Atkins, Territory Rep, ERG
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 1C Zinc Tank 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

F039 Analysis



29-Jul-2022

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

Re: **(REIS) F039 Leachate analysis 07.05.2022**

Work Order: **22070225**

Dear Rick,

ALS Environmental received 1 sample on 05-Jul-2022 10:30 PM 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 45.

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,

Electronically approved by: Les Arnold

Les Arnold
General Manager

Report of Laboratory Analysis

Certificate No: MN 026-999-449

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 07.05.2022
Work Order: 22070225

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
22070225-01	May 2022 F039 Analytical	Liquid		7/6/2022	7/5/2022 22:30	<input type="checkbox"/>

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 07.05.2022
Work Order: 22070225

Case Narrative

Method 1613B for Dioxin/Furans was analyzed at ALS Houston. The report is included in its entirety.

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

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: 29-Jul-2022

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 07.05.2022
Sample ID: May 2022 F039 Analytical
Collection Date: 7/6/2022

Work Order: 22070225
Lab ID: 22070225-01
Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES						
			SW8081B		Prep: SW3511 7/8/22 14:35	Analyst: MMO
Aldrin	ND		0.10	µg/L	10	7/8/2022 09:46 PM
Surr: Decachlorobiphenyl	515	S	42-148	%REC	10	7/8/2022 09:46 PM
Surr: Tetrachloro-m-xylene	2,730	S	57-141	%REC	10	7/8/2022 09:46 PM
SEMI-VOLATILE ORGANIC COMPOUNDS						
			SW846 8270D		Prep: SW3510 7/13/22 19:11	Analyst: EEW
N-Nitrosodimethylamine	ND		200	µg/L	10	7/14/2022 08:51 PM
Surr: 2,4,6-Tribromophenol	75.4		47-103	%REC	10	7/14/2022 08:51 PM
Surr: 2-Fluorobiphenyl	57.2		41-96	%REC	10	7/14/2022 08:51 PM
Surr: 2-Fluorophenol	33.4		28-66	%REC	10	7/14/2022 08:51 PM
Surr: 4-Terphenyl-d14	68.0		49-107	%REC	10	7/14/2022 08:51 PM
Surr: Nitrobenzene-d5	60.2		41-95	%REC	10	7/14/2022 08:51 PM
Surr: Phenol-d6	29.8		18-44	%REC	10	7/14/2022 08:51 PM
SUBCONTRACTED ANALYSES						
			SUBCONTRACT			Analyst: LA
Subcontracted Analyses	See attached		as noted		1	7/11/2022

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

Client: Republic Industrial and Energy Solutions, LLC
Project: (REIS) F039 Leachate analysis 07.05.2022
WorkOrder: 22070225

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	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.

<u>Acronym</u>	<u>Description</u>
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

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
as noted	

ALS Group, USA

Date: 29-Jul-22

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22070225
Project: (REIS) F039 Leachate analysis 07.05.2022

QC BATCH REPORT

Batch ID: **199363** Instrument ID **GC12** Method: **SW8081B**

MBLK		Sample ID: PBLKW1-199363-199363				Units: µg/L		Analysis Date: 7/8/2022 05:22 PM		
Client ID:		Run ID: GC12_220708B				SeqNo: 8609821		Prep Date: 7/8/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	ND	0.010								
Surr: Decachlorobiphenyl	0.2063	0	0.208	0	99.2	42-148	0			
Surr: Tetrachloro-m-xylene	0.1458	0	0.208	0	70.1	57-141	0			

LCS		Sample ID: PLCSW1-199363-199363				Units: µg/L		Analysis Date: 7/8/2022 05:50 PM		
Client ID:		Run ID: GC12_220708B				SeqNo: 8609823		Prep Date: 7/8/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1062	0.010	0.167	0	63.6	51-164	0			
Surr: Decachlorobiphenyl	0.2217	0	0.208	0	107	42-148	0			
Surr: Tetrachloro-m-xylene	0.1582	0	0.208	0	76	57-141	0			

LCSD		Sample ID: PLCSDW1-199363-199363				Units: µg/L		Analysis Date: 7/8/2022 06:04 PM		
Client ID:		Run ID: GC12_220708B				SeqNo: 8609824		Prep Date: 7/8/2022		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1178	0.010	0.167	0	70.6	51-164	0.1062	10.4	20	
Surr: Decachlorobiphenyl	0.2308	0	0.208	0	111	42-148	0.2217	4.05	20	
Surr: Tetrachloro-m-xylene	0.1427	0	0.208	0	68.6	57-141	0.1582	10.3	20	

The following samples were analyzed in this batch: 22070225-01C

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

Client: Republic Industrial and Energy Solutions, LLC
 Work Order: 22070225
 Project: (REIS) F039 Leachate analysis 07.05.2022

QC BATCH REPORT

Batch ID: 199580 Instrument ID SVMS8 Method: SW846 8270D

MBLK				Sample ID: SBLKW1-199580-199580				Units: µg/L		Analysis Date: 7/14/2022 03:22 PM			
Client ID:				Run ID: SVMS8_220714A				SeqNo: 8630481		Prep Date: 7/13/2022		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											
Surr: 2,4,6-Tribromophenol	37.05	0	50	0	74.1	47-103	0						
Surr: 2-Fluorobiphenyl	33.42	0	50	0	66.8	41-96	0						
Surr: 2-Fluorophenol	22.45	0	50	0	44.9	28-66	0						
Surr: 4-Terphenyl-d14	39.48	0	50	0	79	49-107	0						
Surr: Nitrobenzene-d5	33.37	0	50	0	66.7	41-95	0						
Surr: Phenol-d6	15.19	0	50	0	30.4	18-44	0						

LCS				Sample ID: SLCSW1-199580-199580			Units: µg/L		Analysis Date: 7/14/2022 03:43 PM		
Client ID:		Run ID: SVMS8_220714A			SeqNo: 8630482		Prep Date: 7/13/2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
N-Nitrosodimethylamine	10.47	5.0	20	0	52.4	26-74	0				
Surr: 2,4,6-Tribromophenol	38.54	0	50	0	77.1	47-103	0				
Surr: 2-Fluorobiphenyl	33.14	0	50	0	66.3	41-96	0				
Surr: 2-Fluorophenol	20.64	0	50	0	41.3	28-66	0				
Surr: 4-Terphenyl-d14	39.89	0	50	0	79.8	49-107	0				
Surr: Nitrobenzene-d5	33.28	0	50	0	66.6	41-95	0				
Surr: Phenol-d6	13.8	0	50	0	27.6	18-44	0				

Sample ID: SLCSDW1-199580-199580				Units: µg/L		Analysis Date: 7/14/2022 04:04 PM				
Client ID:		Run ID: SVMS8_220714A			SeqNo: 8630483		Prep Date: 7/13/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	10.78	5.0	20	0	53.9	26-74	10.47	2.92	30	
Surr: 2,4,6-Tribromophenol	38.67	0	50	0	77.3	47-103	38.54	0.337	40	
Surr: 2-Fluorobiphenyl	32.85	0	50	0	65.7	41-96	33.14	0.879	40	
Surr: 2-Fluorophenol	22.26	0	50	0	44.5	28-66	20.64	7.55	40	
Surr: 4-Terphenyl-d14	38.79	0	50	0	77.6	49-107	39.89	2.8	40	
Surr: Nitrobenzene-d5	33.63	0	50	0	67.3	41-95	33.28	1.05	40	
Surr: Phenol-d6	15.19	0	50	0	30.4	18-44	13.8	9.59	40	

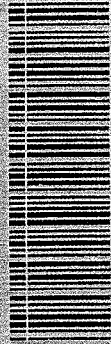
The following samples were analyzed in this batch: 22070225-01A

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

Chain of Custody Form

Page 1 of 1

22070225



ALS Project Manager:

Customer Information							Project Information						Parameter/Method Request for Analysis									
Purchase Order							Project Name	RIES 07052022						A	Aldrin							
Work Order							Project Number							B	Hexachlorodibenzo-p-dioxins							
Company Name	Republic Industrial and Energy						Bill To Company	Republic Industrial and Energy						C	Nitrosodimethylamine							
Send Report To	Rick Sauve						Invoice Attn.							D	1,2,3,4,6,7,8,9-Octachloro-dibenzofuran							
Address	28470 Cintrin Dr.						Address	28470 Cintrin Dr.						E	1,2,3,4,6,7,8,9-Octachloro-dibenzo-p-dioxin							
City/State/Zip	Romulus, MI 48174						City/State/Zip	Romulus, MI 48174						F	Tetrachlorodibenzo-p-dioxins							
Phone	734-784-2708						Phone							G								
Fax							Fax							H								
e-Mail Address	RSauve@republicservices.com													I								
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold					
1	June 2022 F039 Analytical	7/5/2022		L		6	X	X	X	X	X	X										
Sampler(s): Please Print & Sign	Turnaround Time: (Business Days)						Results Due Date:															
Rick Sauve	Shipment Method:						10 BD <input type="checkbox"/> 5 BD <input checked="" type="checkbox"/> 3 BD <input type="checkbox"/>						Other <input type="checkbox"/> 1 BD <input type="checkbox"/>									
Relinquished by:	Date:	Time:	Received by:	Date:	Time:	Notes:																
Rick Sauve	7/5/2022	8:52	[Signature]	7/5/22	2:52																	
Relinquished by:	Date:	Time:	Recalced by (Laboratory):	Date:	Time:		ALS Cooler ID															
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Date:	Time:		Cooler Temp															
	7/5/22	0900	Kew	7/5/22	0900		QC Package: (Check Box Below) <input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> Level III: Raw Data <input type="checkbox"/> TRRP LRC <input type="checkbox"/> TRRP Level IV <input type="checkbox"/> Level IV: SW846 Methods/CLP like <input type="checkbox"/> Other:															

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

6-NaHSO ₄	7-Other	8-4°C
100	100	100

Preservative Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5

Revision 2 - Effective 11/9/2016

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samples and COC Form have been submitted to ALS.

Hazardous Substances Limitations and Reporting

RCLA 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

⁵The 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.

Sample Receipt Checklist

Client Name: **REPULICINDUSTRIAL - ROMULU**

Date/Time Received: **05-Jul-22 22:30**

Work Order: **22070225**

Received by: **KRW**

Checklist completed by **Keith Wierenga**

06-Jul-22

Reviewed by: **Les Arnold**

06-Jul-22

eSignature

Date

eSignature

Date

Matrices: **Liquid**

Carrier name: **FedEx**

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):

2.8/3.8 C

IR3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

7/6/2022 9:01:39 AM

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:



July 28, 2022

Service Request No:E2200674

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

Laboratory Results for: 22070225

Dear Les,

Enclosed are the results of the sample(s) submitted to our laboratory July 11, 2022
For your reference, these analyses have been assigned our service request number **E2200674**.

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.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Corey Grandits
Project Manager

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



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 Michigan
Project: 22070225
Sample Matrix: W

Service Request No.: E2200674
Date Received: 07/11/22

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 07/11/22.

The sample was received in good condition and is consistent with the accompanying chain of custody form. Dioxin/furan compounds are stable at room temperature. The sample was stored in a refrigerator at 4°C upon receipt at the laboratory.

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2200293: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch. The LCS and DLCS recoveries met acceptance criteria.

B flags – Method Blanks

The Method Blank EQ2200293-01 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.

Y flags – Labeled Standards - MBLK

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.

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.

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.

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)

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)
Project: 22070225

Service Request:E2200674

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2200674-001	July 2022 F039 Analytical	7/6/2022	0000

Service Request Summary

2 500 mL-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 8D
Pressure Gas:

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 07/11/22
Internal Due Date: 7/27/2022
QAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: Y
Report to MDL?: Y
P.O. Number: 22070225
EDD: BASIC_WQC_CASNo

Folder #: E2200674
Client Name: ALS Environmental - Holland (MI)
Project Name: 22070225
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

Lab Samp No.	Client Samp No	Matrix	Collected
E2200674-001	July 2022 F039 Analytical	Water	07/06/22 0000
HOUSTON			Dioxins Furans/1613B
			II

Service Request Summary

2 500 mL-Glass Bottle NM AMBER Teflon Liner Unpreserved
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Pressure Gas:

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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

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	7/31/2022
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028	12/31/2022
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Department of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2228443	12/31/2022
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932022-1	7/31/2022
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	2021-080	8/31/2022
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 Conservation	04016-2022	4/30/2023
Texas Commission on Environmental Quality	T104704231-22-29	4/30/2023
United States Department of Agriculture	P330-19-00299	10/10/2022
Utah Department of Health Environmental Laboratory Certification	TX026932021-12	7/31/2022
Washington Department of Health	C819-2022	11/14/2022

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

SR# Unique ID

E2200674

DB-5MSUI

SPB-Octyl

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

Date:

07/27/22

Analyst:

Jc

Samples:

001

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

Date:

7/27/22

Analyst:

XR

Samples:

001



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



Environmental

Subcontractor:
ALS Environmental - Houston HR
10450 Standliff Rd
Suite 210
Houston, TX 77099

TEL: (713) 266-1599
FAX:
Acct #:

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Date: 06-Jul-22
COC ID: 20292
Due Date: 27-Jul-22

Customer Information		Project Information		Parameter/Method Request for Analysis											
Purchase Order		Project Name	22070225	Subcontracted Analyses (SUBCONTRACT)											
Work Order		Project Number		Attached 1613 List											
Company Name	ALS Group USA, Corp	Bill To Company	ALS Group USA, Corp												
Send Report To	Les Arnold	Inv Attn	Accounts Payable												
Address	3352 128th Ave	Address	3352 128th Ave												
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424												
Phone	(616) 399-6070	Phone	(616) 399-6070												
Fax	(616) 399-6185	Fax	(616) 399-6185												
Email Address	les.arnold@alsglobal.com	Email CC													
ALS Sample ID	Client Sample ID	Matrix	Collection Date 24hr	Bottle	A	B	C	D	E	F	G	H	I	J	
22070225-01B	May 2022 F039 Analytical	Liquid	6/Jul/2022	(2) 500AMC/NEAT	X										

10 day TAT

Base
16.0
431
efficiency

Comments:			
Relinquished by:		Date/Time	7/6/22 1700
Relinquished by:		Date/Time	
Received by:		Date/Time	7/11/22 10:35
Received by:		Date/Time	
Cooler IDs			
Report/QC Level	Std		

Cooler Receipt Form

Project Chemist

(4)

Client/Project

124-111

Thermometer ID

1231

Date/Time Received:

2-11-27

Initials: *id*

PL

Date/Time Logged in:

7-11-73

Initials

16

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 ☒ Baggage ☒ 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 4386 9630		7-11-22	1035	PC	16.5	<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

- | | | |
|--|--------------------------------------|--------------------------|
| 6. Were custody papers properly filled out (ink, signed, dated, etc)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| 7. Did all bottles arrive in good condition (not broken, no signs of leakage)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| 8. Were all sample labels complete (i.e., sample ID, analysis, preservation, etc)? | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| 9. Were appropriate bottles/containers and volumes received for the requested tests? | <input checked="" type="radio"/> Yes | <input type="radio"/> No |
| 10. Did sample labels and tags agree with custody documents? | <input checked="" type="radio"/> Yes | <input type="radio"/> 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 sample. The 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



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#: 402719

Team: Semivoa GCMS/SHIVANI NAIDU

Prep WorkFlow: OrgExtAq(365)

Prep Method: Method Sep Funnel/Jar

Status: Prepped

Prep Date/Time: 7/13/22 11:09

#	Lab Code	Client ID	B#	Method /Test	pH	CI	Matrix	Amt. Ext.	Sample Description
1	E2200573-001	1R-RW-PI-13A-001	.01	1613B/Dioxins Furans	7	n	Water	585mL	yellow cloudy
2	E2200573-002	1R-SW-PI8/9-042	.01	1613B/Dioxins Furans	7	n	Water	595mL	clear
3	E2200576-001	22F0498-03	.01	1613B/Dioxins Furans	7	n	Water	970mL	clear
4	E2200577-001	OD-901	.01	1613B/Dioxins Furans	7	n	Wastewater	1053mL	clear
5	E2200613-001	River RM 327.8	.01	1613B/Dioxins Furans	7	n	Water	1065mL	yellow clear
6	E2200622-001	BP-1023 Sandblasting Material (Clar 3)	.01	1613B/Dioxins Furans	7	n	Water	974mL	clear
7	E2200624-001	3249444-001	.01	1613B/Dioxins Furans	7	n	Wastewater	1047mL	yellow clear
8	E2200628-001	1FF2962-01	.01	1613B/Dioxins Furans	7	n	Water	993mL	yellow cloudy
9	E2200629-001	3249826-001	.01	1613B/Dioxins Furans	7	n	Drinking Water	1061mL	clear
10	E2200630-001	3249825-001	.01	1613B/Dioxins Furans	2	n	Drinking Water	1056mL	yellow clear
11	E2200658-001	001 Quarterly Sample	.01	1613B/Dioxins Furans	7	n	Water	997mL	clear
12	E2200659-001	22F0736-01	.01	1613B/Dioxins Furans	7	n	Water	951mL	yellow clear
13	E2200674-001	July 2022 F039 Analytical	.01	1613B/Dioxins Furans	7	n	Water	462mL	green cloudy
14	EQ2200293-01	MB		1613B/Dioxins Furans	7	n	Liquid	1000mL	
15	EQ2200293-02	LCS		1613B/Dioxins Furans	7	n	Liquid	1000mL	
16	EQ2200293-03	DLCS		1613B/Dioxins Furans	7	n	Liquid	1000mL	
17	EQ2200293-04	MB		1613B/Dioxins Furans	7	n	Drinking Water	1000mL	
18	EQ2200293-05	LCS		1613B/Dioxins Furans	7	n	Drinking Water	1000mL	
19	EQ2200293-06	DLCS		1613B/Dioxins Furans	7	n	Drinking Water	1000mL	
20	K2206516-001	Effluent	.65	1613B/Dioxins Furans	7	n	Water	1053mL	clear
21	K2206516-002	MW-2	.65	1613B/Dioxins Furans	7	n	Water	1019mL	brown cloudy
22	K2206516-003	Upgradient	.65	1613B/Dioxins Furans	7	n	Water	1052mL	clear
23	K2206516-004	MW-1	.65	1613B/Dioxins Furans	7	n	Water	1053mL	clear
24	K2206846-001	M22D-DXN-IN	.01	1613B/Dioxins Furans	7	n	Water	1059mL	black cloudy
25	K2206846-002	M22D-DXN-EF	.01	1613B/Dioxins Furans	7	n	Water	1054mL	yellow cloudy
26	K2206894-001	Bleach Plant Effluent Composite	.01	1613B/Dioxins Furans	7	n	Water	986mL	orange cloudy

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	223733	Logbook Ref:	tw 6/28/22 223733	Expires On:	08/04/2022
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EQ2200293-02 100.00µL EQ2200293-03 100.00µL

Name:	8290/1613B Cleanup Working Standard	Inventory ID	223968	Logbook Ref:	SN 7/12/22	Expires On:	08/04/2022
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E2200573-001 100.00µL E2200573-002 100.00µL E2200576-001 100.00µL E2200577-001 100.00µL E2200613-001 100.00µL E2200622-001 100.00µL

17 of 34

Printed 7/20/22 11:29

Preparation Information Benchsheet

Preparation Information Benchsheet

Prep Run#: 402719

Team: Semivoa GCMS/SHIVANI NAIDU

Prep WorkFlow: OrgExtAq(365)

Prep Method: Method Sep Funnel/Jar

Status: Prepped

Prep Date/Time: 7/13/22 11:09

E2200624-001	100.00µL	E2200628-001	100.00µL	E2200658-001	100.00µL	E2200659-001	100.00µL
E2200674-001	100.00µL	EQ2200293-01	100.00µL	EQ2200293-02	100.00µL	K2206516-001	100.00µL
K2206516-003	100.00µL	K2206516-004	100.00µL	K2206846-001	100.00µL	K2206894-001	100.00µL

Name:	1613B Labeled Working Standard	Inventory ID	223985	Logbook Ref:	SN 7/13/22	Expires On:	08/04/2022
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Preparation Materials

Carbon, High Purity	SN 5/16/2022 (223091)	Ethyl Acetate 99.9% Minimum EtOAc	Ethyl Acetate 6/30/22 (223782)	Glass Wool	tw 7/8/21 glass wool (218851)
Hexanes 95%	SN 5/5/2022 (222913)	Chlorine Test Strips	Chlorine Test Strips (223778)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	SN 3/24/2022 (222245)
Sodium Hydroxide IN NaOH	SN 4/26/22 (222726)	Sodium Sulfate Anhydrous Reagent Grade Na2SO4	SN 5/18/22 (223143)	Tridecane (n-Tridecane)	SN 5/3/22 (222849)
Silica Gel	tw 3/3/22 silica gel (222195)	sulfuric acid	8/12/21 tw (218912)	Toluene 99.9% Minimum	tw 2/16/22 toluene (221679)
ColophHast pH-Indicator Strips	pH-Indicator strips (217936)				

Preparation Steps

Step:	Extraction	Step:	Silica Gel Clean	Step:	Final Volume
Started:	7/13/22 11:09	Started:	7/15/22 10:00	Started:	7/15/22 13:00
Finished:	7/13/22 17:00	Finished:	7/15/22 13:00	Finished:	7/15/22 16:00
By:	SHIVANI NAIDU	By:	SHIVANI NAIDU	By:	SHIVANI NAIDU
Comments	Comments	Comments	Comments	Comments	Comments

Comments:

Reviewed By: SN Date: 7/20/22

Chain of Custody

Relinquished By:	Date:	Extracts Examined
Received By:	Date:	Yes No



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)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: 07/06/22 00:00
Date Received: 07/11/22 10:35

Sample Name: July 2022 F039 Analytical
Lab Code: E2200674-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 462mL

Date Analyzed: 07/24/22 06:09
Date Extracted: 7/13/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P630421

Data File Name: P630425
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	6.20JK		3.70	10.8	0.63	1.001	1
1,2,3,7,8-PeCDD	7.86JK		1.46	54.1	1.14	1.001	1
1,2,3,4,7,8-HxCDD	7.78J		0.765	54.1	1.13	1.000	1
1,2,3,6,7,8-HxCDD	7.70J		0.680	54.1	1.43	1.000	1
1,2,3,7,8,9-HxCDD	5.90JK		0.691	54.1	0.81	1.007	1
1,2,3,4,6,7,8-HpCDD	46.0BJ		2.55	54.1	1.08	1.000	1
OCDD	229		3.80	108	0.85	1.000	1
2,3,7,8-TCDF	22.6		2.30	10.8	0.78	1.001	1
1,2,3,7,8-PeCDF	200		12.0	54.1	1.56	1.001	1
2,3,4,7,8-PeCDF	127		10.6	54.1	1.54	1.000	1
1,2,3,4,7,8-HxCDF	1580		6.78	54.1	1.18	1.000	1
1,2,3,6,7,8-HxCDF	531		7.21	54.1	1.19	1.000	1
1,2,3,7,8,9-HxCDF	43.5J		9.75	54.1	1.27	1.001	1
2,3,4,6,7,8-HxCDF	118		6.60	54.1	1.07	1.000	1
1,2,3,4,6,7,8-HpCDF	9840		15.3	54.1	0.98	1.000	1
1,2,3,4,7,8,9-HpCDF	135		17.5	54.1	1.02	1.000	1
OCDF	11100		21.5	108	0.86	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: 07/06/22 00:00
Date Received: 07/11/22 10:35

Sample Name: July 2022 F039 Analytical
Lab Code: E2200674-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 462mL

Date Analyzed: 07/24/22 06:09
Date Extracted: 7/13/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P630421

Data File Name: P630425
ICAL Date: 03/15/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	20.8		3.70	10.8	0.76		1
Total Penta-Dioxins	33.2J		1.46	54.1	1.49		1
Total Hexa-Dioxins	80.6		0.710	54.1	1.16		1
Total Hepta-Dioxins	104		2.55	54.1	1.01		1
Total Tetra-Furans	1140		2.30	10.8	0.82		1
Total Penta-Furans	2380		1.36	54.1	1.51		1
Total Hexa-Furans	4470		7.45	54.1	1.20		1
Total Hepta-Furans	10600		16.4	54.1	0.98		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: 07/06/22 00:00
Date Received: 07/11/22 10:35

Sample Name: July 2022 F039 Analytical
Lab Code: E2200674-001

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 462mL

Date Analyzed: 07/24/22 06:09
Date Extracted: 7/13/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P630421

Data File Name: P630425
ICAL Date: 03/15/22

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	1025.139	51		25-164	0.79	1.022
13C-1,2,3,7,8-PeCDD	2000	1170.278	59		25-181	1.56	1.200
13C-1,2,3,4,7,8-HxCDD	2000	1096.967	55		32-141	1.25	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1309.700	65		28-130	1.22	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	1005.059	50		23-140	1.05	1.068
13C-OCDD	4000	1871.601	47		17-157	0.87	1.141
13C-2,3,7,8-TCDF	2000	956.675	48		24-169	0.78	0.992
13C-1,2,3,7,8-PeCDF	2000	1118.732	56		24-185	1.59	1.154
13C-2,3,4,7,8-PeCDF	2000	1187.322	59		21-178	1.57	1.190
13C-1,2,3,4,7,8-HxCDF	2000	1157.271	58		26-152	0.52	0.970
13C-1,2,3,6,7,8-HxCDF	2000	1088.375	54		26-123	0.52	0.973
13C-1,2,3,7,8,9-HxCDF	2000	1016.065	51		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1246.418	62		28-136	0.51	0.987
13C-1,2,3,4,6,7,8-HpCDF	2000	925.607	46		28-143	0.42	1.043
13C-1,2,3,4,7,8,9-HpCDF	2000	1105.261	55		26-138	0.42	1.080
37Cl-2,3,7,8-TCDD	800	447.808	56		35-197	NA	1.023

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: 07/06/22 00:00
Date Received: 07/11/22 10:35

Sample Name: July 2022 F039 Analytical
Lab Code: E2200674-001

Units: pg/L
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	6.20	3.70	10.8	1	1	6.20
1,2,3,7,8-PeCDD	7.86	1.46	54.1	1	1	7.86
1,2,3,4,7,8-HxCDD	7.78	0.765	54.1	1	0.1	0.778
1,2,3,6,7,8-HxCDD	7.70	0.680	54.1	1	0.1	0.770
1,2,3,7,8,9-HxCDD	5.90	0.691	54.1	1	0.1	0.590
1,2,3,4,6,7,8-HpCDD	46.0	2.55	54.1	1	0.01	0.460
OCDD	229	3.80	108	1	0.0003	0.0687
2,3,7,8-TCDF	22.6	2.30	10.8	1	0.1	2.26
1,2,3,7,8-PeCDF	200	12.0	54.1	1	0.03	6.00
2,3,4,7,8-PeCDF	127	10.6	54.1	1	0.3	38.1
1,2,3,4,7,8-HxCDF	1580	6.78	54.1	1	0.1	158
1,2,3,6,7,8-HxCDF	531	7.21	54.1	1	0.1	53.1
1,2,3,7,8,9-HxCDF	43.5	9.75	54.1	1	0.1	4.35
2,3,4,6,7,8-HxCDF	118	6.60	54.1	1	0.1	11.8
1,2,3,4,6,7,8-HpCDF	9840	15.3	54.1	1	0.01	98.4
1,2,3,4,7,8,9-HpCDF	135	17.5	54.1	1	0.01	1.35
OCDF	11100	21.5	108	1	0.0003	3.33
Total TEQ						393

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200293-01

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/20/22 19:34
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538935
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	8.86	8.86			1
1,2,3,7,8-PeCDD	ND	U	3.75	25.0			1
1,2,3,4,7,8-HxCDD	ND	U	3.52	25.0			1
1,2,3,6,7,8-HxCDD	ND	U	3.08	25.0			1
1,2,3,7,8,9-HxCDD	ND	U	3.28	25.0			1
1,2,3,4,6,7,8-HpCDD	9.50JK		4.98	25.0	1.36	1.001	1
OCDD	13.4JK		7.29	50.0	1.13	1.001	1
2,3,7,8-TCDF	ND	U	6.37	6.37			1
1,2,3,7,8-PeCDF	ND	U	3.81	25.0			1
2,3,4,7,8-PeCDF	ND	U	3.42	25.0			1
1,2,3,4,7,8-HxCDF	ND	U	2.21	25.0			1
1,2,3,6,7,8-HxCDF	3.47JK		2.45	25.0	1.45	1.000	1
1,2,3,7,8,9-HxCDF	ND	U	4.13	25.0			1
2,3,4,6,7,8-HxCDF	ND	U	2.48	25.0			1
1,2,3,4,6,7,8-HpCDF	5.41J		1.26	25.0	0.88	1.000	1
1,2,3,4,7,8,9-HpCDF	9.43J		1.93	25.0	1.12	1.000	1
OCDF	19.6J		11.4	50.0	0.80	1.006	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200293-01

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/20/22 19:34
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538935
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	8.86	8.86			1
Total Penta-Dioxins	ND	U	3.75	25.0			1
Total Hexa-Dioxins	ND	U	3.28	25.0			1
Total Hepta-Dioxins	ND	U	4.98	25.0			1
Total Tetra-Furans	ND	U	6.37	6.37			1
Total Penta-Furans	ND	U	3.61	25.0			1
Total Hexa-Furans	ND	U	2.68	25.0			1
Total Hepta-Furans	9.43J		1.54	25.0	1.12		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200293-01

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/20/22 19:34
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538935
ICAL Date: 01/18/22

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	436.864	22	Y	25-164	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	482.892	24	Y	25-181	1.64	1.178
13C-1,2,3,4,7,8-HxCDD	2000	529.844	26	Y	32-141	1.30	0.991
13C-1,2,3,6,7,8-HxCDD	2000	627.003	31		28-130	1.29	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	453.728	23		23-140	1.10	1.065
13C-OCDD	4000	638.201	16	Y	17-157	0.92	1.139
13C-2,3,7,8-TCDF	2000	422.874	21	Y	24-169	0.80	0.994
13C-1,2,3,7,8-PeCDF	2000	433.923	22	Y	24-185	1.58	1.137
13C-2,3,4,7,8-PeCDF	2000	464.245	23		21-178	1.62	1.168
13C-1,2,3,4,7,8-HxCDF	2000	570.494	29		26-152	0.49	0.972
13C-1,2,3,6,7,8-HxCDF	2000	507.242	25	Y	26-123	0.49	0.975
13C-1,2,3,7,8,9-HxCDF	2000	393.936	20	Y	29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	540.361	27	Y	28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	431.016	22	Y	28-143	0.42	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	360.235	18	Y	26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	408.069	51		35-197	NA	1.020



Accuracy & Precision

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

QA/QC Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Analyzed: 07/23/22 - 07/21/22
Date Extracted: 07/13/22

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

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

Units: pg/L
Basis: NA
Analysis Lot: 771550

Lab Control Sample
EQ2200293-02

Duplicate Lab Control Sample
EQ2200293-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	949	1000	95	997	1000	100	70-140	5	50
1,2,3,4,7,8-HxCDD	978	1000	98	1050	1000	105	70-164	8	50
1,2,3,6,7,8-HxCDD	860	1000	86	930	1000	93	76-134	8	50
1,2,3,7,8,9-HxCDD	963	1000	96	955	1000	95	64-162	<1	50
1,2,3,7,8-PeCDD	935	1000	93	942	1000	94	70-142	<1	50
2,3,7,8-TCDD	174	200	87	179	200	89	67-158	3	50
OCDD	1910	2000	95	2010	2000	100	78-144	5	50
1,2,3,4,6,7,8-HpCDF	966	1000	97	1030	1000	103	82-122	6	50
1,2,3,4,7,8,9-HpCDF	943	1000	94	997	1000	100	78-138	5	50
1,2,3,4,7,8-HxCDF	879	1000	88	936	1000	94	72-134	6	50
1,2,3,6,7,8-HxCDF	958	1000	96	1030	1000	103	84-130	8	50
1,2,3,7,8,9-HxCDF	911	1000	91	1030	1000	103	78-130	12	50
1,2,3,7,8-PeCDF	931	1000	93	992	1000	99	80-134	6	50
2,3,4,6,7,8-HxCDF	799	1000	80	875	1000	88	70-156	9	50
2,3,4,7,8-PeCDF	894	1000	89	930	1000	93	68-160	4	50
2,3,7,8-TCDF	172	200	86	190	200	95	75-158	10	50
OCDF	1870	2000	94	2200	2000	110	63-170	16	50

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200293-02

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/23/22 10:45
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P539001

Data File Name: P539010
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	174		2.61	5.00	0.81	1.001	1
1,2,3,7,8-PeCDD	935		0.906	25.0	1.58	1.000	1
1,2,3,4,7,8-HxCDD	978		1.27	25.0	1.26	1.000	1
1,2,3,6,7,8-HxCDD	860		1.13	25.0	1.30	1.000	1
1,2,3,7,8,9-HxCDD	963		1.20	25.0	1.25	1.007	1
1,2,3,4,6,7,8-HpCDD	949		1.20	25.0	1.04	1.000	1
OCDD	1910		6.40	50.0	0.89	1.000	1
2,3,7,8-TCDF	172		2.65	5.00	0.68	1.001	1
1,2,3,7,8-PeCDF	931		2.29	25.0	1.49	1.000	1
2,3,4,7,8-PeCDF	894		2.06	25.0	1.46	1.000	1
1,2,3,4,7,8-HxCDF	879		2.34	25.0	1.13	1.000	1
1,2,3,6,7,8-HxCDF	958		2.50	25.0	1.20	1.000	1
1,2,3,7,8,9-HxCDF	911		3.05	25.0	1.20	1.000	1
2,3,4,6,7,8-HxCDF	799		2.21	25.0	1.16	1.000	1
1,2,3,4,6,7,8-HpCDF	966		5.89	25.0	0.98	1.000	1
1,2,3,4,7,8,9-HpCDF	943		8.02	25.0	0.99	1.000	1
OCDF	1870		5.50	50.0	0.87	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200293-02

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/23/22 10:45
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P539001

Data File Name: P539010
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	174		2.61	5.00	0.81		1
Total Penta-Dioxins	935		0.906	25.0	1.58		1
Total Hexa-Dioxins	2800		1.20	25.0	1.26		1
Total Hepta-Dioxins	949		1.20	25.0	1.04		1
Total Tetra-Furans	175		2.65	5.00	0.68		1
Total Penta-Furans	1830		2.17	25.0	1.49		1
Total Hexa-Furans	3550		2.50	25.0	1.13		1
Total Hepta-Furans	1910		6.84	25.0	0.98		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200293-02

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/23/22 10:45
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P539001

Data File Name: P539010
ICAL Date: 01/18/22

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	1153.813	58		25-164	0.79	1.020
13C-1,2,3,7,8-PeCDD	2000	1393.842	70		25-181	1.58	1.178
13C-1,2,3,4,7,8-HxCDD	2000	1227.513	61		32-141	1.29	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1394.996	70		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1275.894	64		23-140	1.06	1.066
13C-OCDD	4000	2580.740	65		17-157	0.89	1.139
13C-2,3,7,8-TCDF	2000	1007.799	50		24-169	0.79	0.994
13C-1,2,3,7,8-PeCDF	2000	1238.116	62		24-185	1.58	1.138
13C-2,3,4,7,8-PeCDF	2000	1353.154	68		21-178	1.57	1.169
13C-1,2,3,4,7,8-HxCDF	2000	1230.234	62		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1127.654	56		26-123	0.51	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1178.568	59		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1372.061	69		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1160.225	58		28-143	0.41	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1100.028	55		26-138	0.43	1.078
37Cl-2,3,7,8-TCDD	800	440.980	55		35-197	NA	1.021

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200293-03

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/21/22 03:37
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538945
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	179		2.72	5.00	0.75	1.001	1
1,2,3,7,8-PeCDD	942		1.17	25.0	1.59	1.000	1
1,2,3,4,7,8-HxCDD	1050		0.744	25.0	1.21	1.000	1
1,2,3,6,7,8-HxCDD	930		0.659	25.0	1.24	1.000	1
1,2,3,7,8,9-HxCDD	955		0.700	25.0	1.26	1.007	1
1,2,3,4,6,7,8-HpCDD	997		1.18	25.0	1.01	1.000	1
OCDD	2010		7.87	50.0	0.88	1.000	1
2,3,7,8-TCDF	190		2.03	5.00	0.65	1.001	1
1,2,3,7,8-PeCDF	992		1.52	25.0	1.52	1.001	1
2,3,4,7,8-PeCDF	930		1.43	25.0	1.46	1.000	1
1,2,3,4,7,8-HxCDF	936		0.602	25.0	1.21	1.000	1
1,2,3,6,7,8-HxCDF	1030		0.660	25.0	1.19	1.000	1
1,2,3,7,8,9-HxCDF	1030		0.898	25.0	1.18	1.000	1
2,3,4,6,7,8-HxCDF	875		0.584	25.0	1.17	1.000	1
1,2,3,4,6,7,8-HpCDF	1030		1.86	25.0	0.96	1.000	1
1,2,3,4,7,8,9-HpCDF	997		2.40	25.0	0.95	1.000	1
OCDF	2200		5.74	50.0	0.87	1.006	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200293-03

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/21/22 03:37
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538945
ICAL Date: 01/18/22

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	179		2.72	5.00	0.75		1
Total Penta-Dioxins	942		1.17	25.0	1.59		1
Total Hexa-Dioxins	2940		0.699	25.0	1.21		1
Total Hepta-Dioxins	997		1.18	25.0	1.01		1
Total Tetra-Furans	190		2.03	5.00	0.65		1
Total Penta-Furans	1920		1.47	25.0	1.52		1
Total Hexa-Furans	3870		0.669	25.0	1.21		1
Total Hepta-Furans	2030		2.11	25.0	0.96		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22070225
Sample Matrix: Water

Service Request: E2200674
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200293-03

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 1000mL

Date Analyzed: 07/21/22 03:37
Date Extracted: 7/13/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P538935
Cal Ver. File Name: P538932

Data File Name: P538945
ICAL Date: 01/18/22

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	995.052	50		25-164	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	1067.169	53		25-181	1.60	1.178
13C-1,2,3,4,7,8-HxCDD	2000	994.904	50		32-141	1.27	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1136.294	57		28-130	1.28	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	840.644	42		23-140	1.07	1.066
13C-OCDD	4000	1218.949	30		17-157	0.87	1.139
13C-2,3,7,8-TCDF	2000	885.135	44		24-169	0.79	0.994
13C-1,2,3,7,8-PeCDF	2000	954.415	48		24-185	1.58	1.137
13C-2,3,4,7,8-PeCDF	2000	1017.123	51		21-178	1.57	1.168
13C-1,2,3,4,7,8-HxCDF	2000	1039.229	52		26-152	0.50	0.972
13C-1,2,3,6,7,8-HxCDF	2000	941.775	47		26-123	0.50	0.975
13C-1,2,3,7,8,9-HxCDF	2000	862.086	43		29-147	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1103.005	55		28-136	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	787.517	39		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	790.346	40		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	438.727	55		35-197	NA	1.020