



REPUBLIC
SERVICES

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

May 9th, 2023

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

Re: RIES Monthly Report

Dear Mr. Andrew Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the hundred and ninth 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 February of 2023 so as stated on page A-3 of 3 of RIES's two EPA UIC permits an analysis is required and is included in this report.

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

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

Sincerely,



John K. Frost

cc: Rick Sauve (Republic Services)

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2023

CURRENT REPORTING MONTH February

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	588,419	0	588,419
Since facility first injected			51,954,879
MI-163-1W-C011, Well #2-12			
Current Month	728,030	0	728,030
Since facility first injected			32,340,613
		Lifetime Combined	84,295,492

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 110

110 lifetime number of months of injection × 43,830 minutes/month
= 4,821,300 minutes of injection

Lifetime combined injected volume 84,295,492 ÷ 4,821,300 minutes of injection
= 17.48 gpm average injection rate

WELL 1 DATA

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

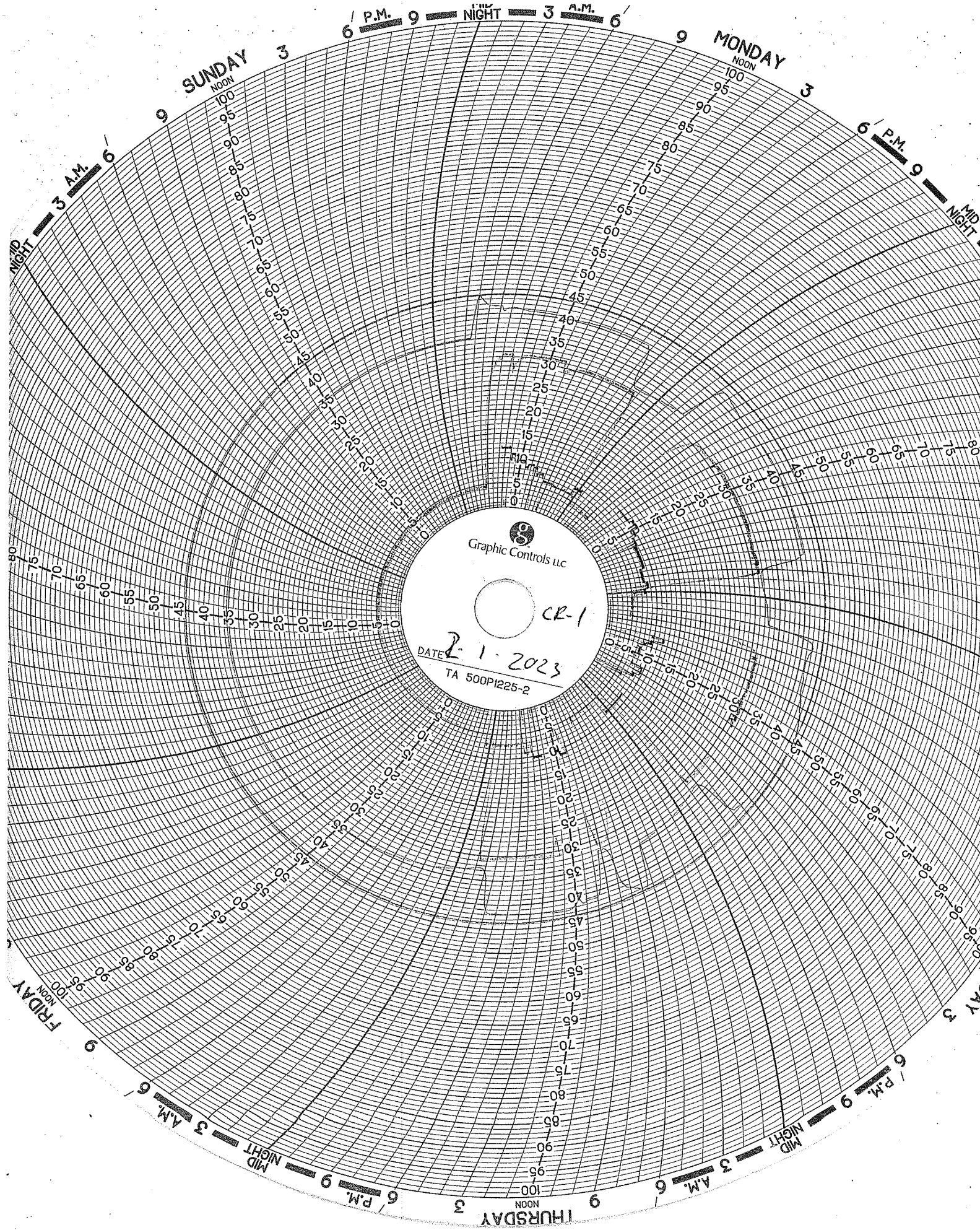
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

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-1

DATE 2-1-2023
TA 500P1225-2

SUNDAY

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THURSDAY

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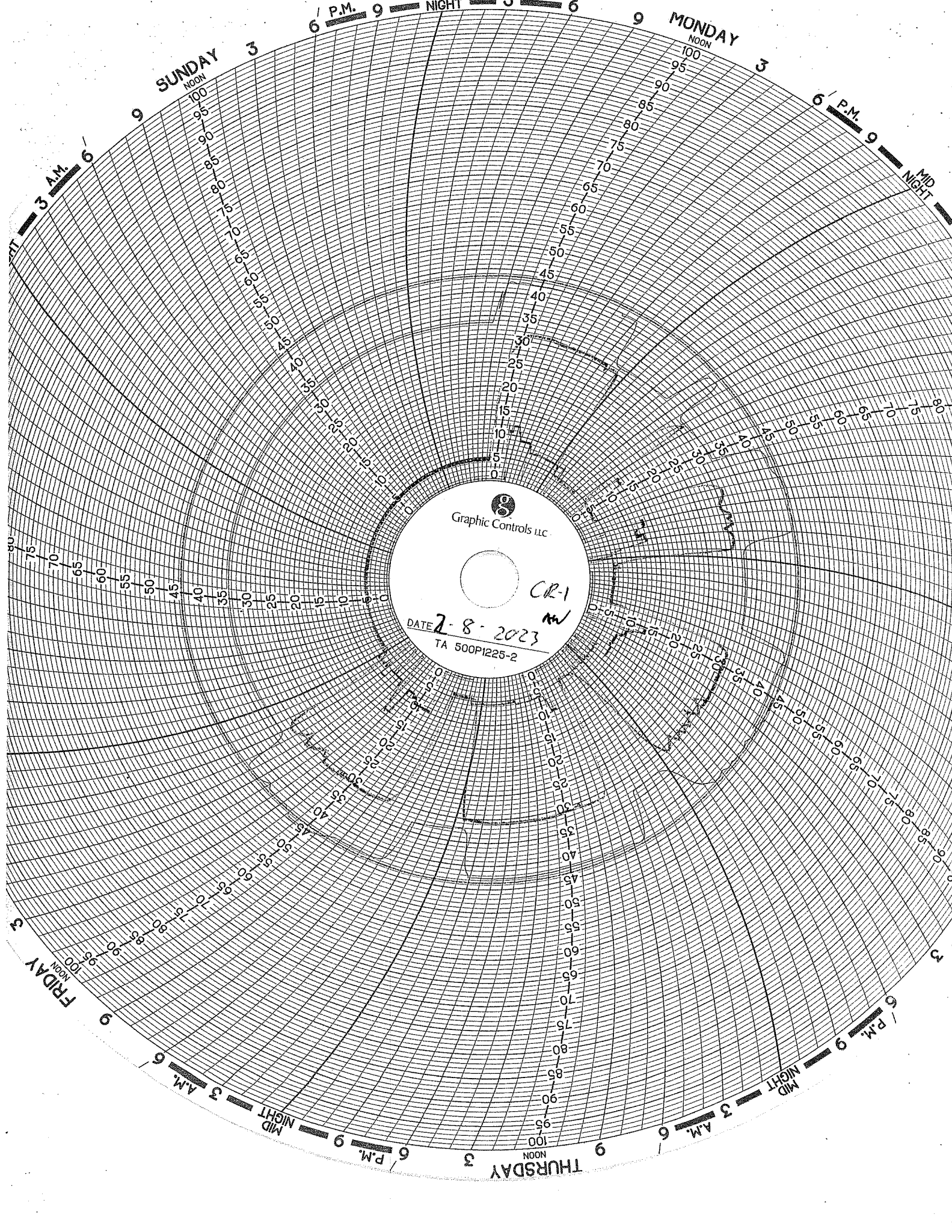
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Graphic Controls LLC
CR-1
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TA 500PI225-2

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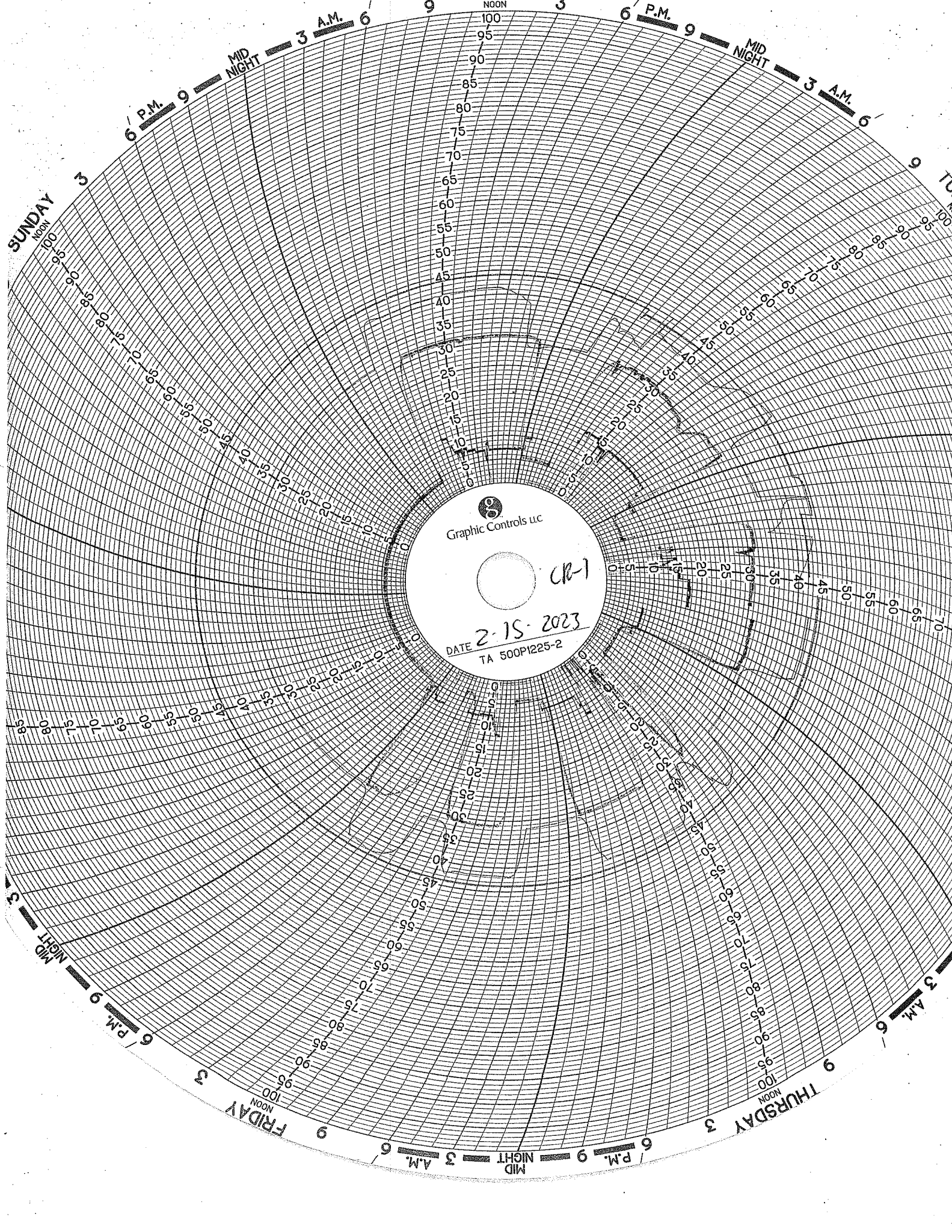
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Graphic Controls LLC

CB-1

DATE 2-15-2023
TA 500P1225-2

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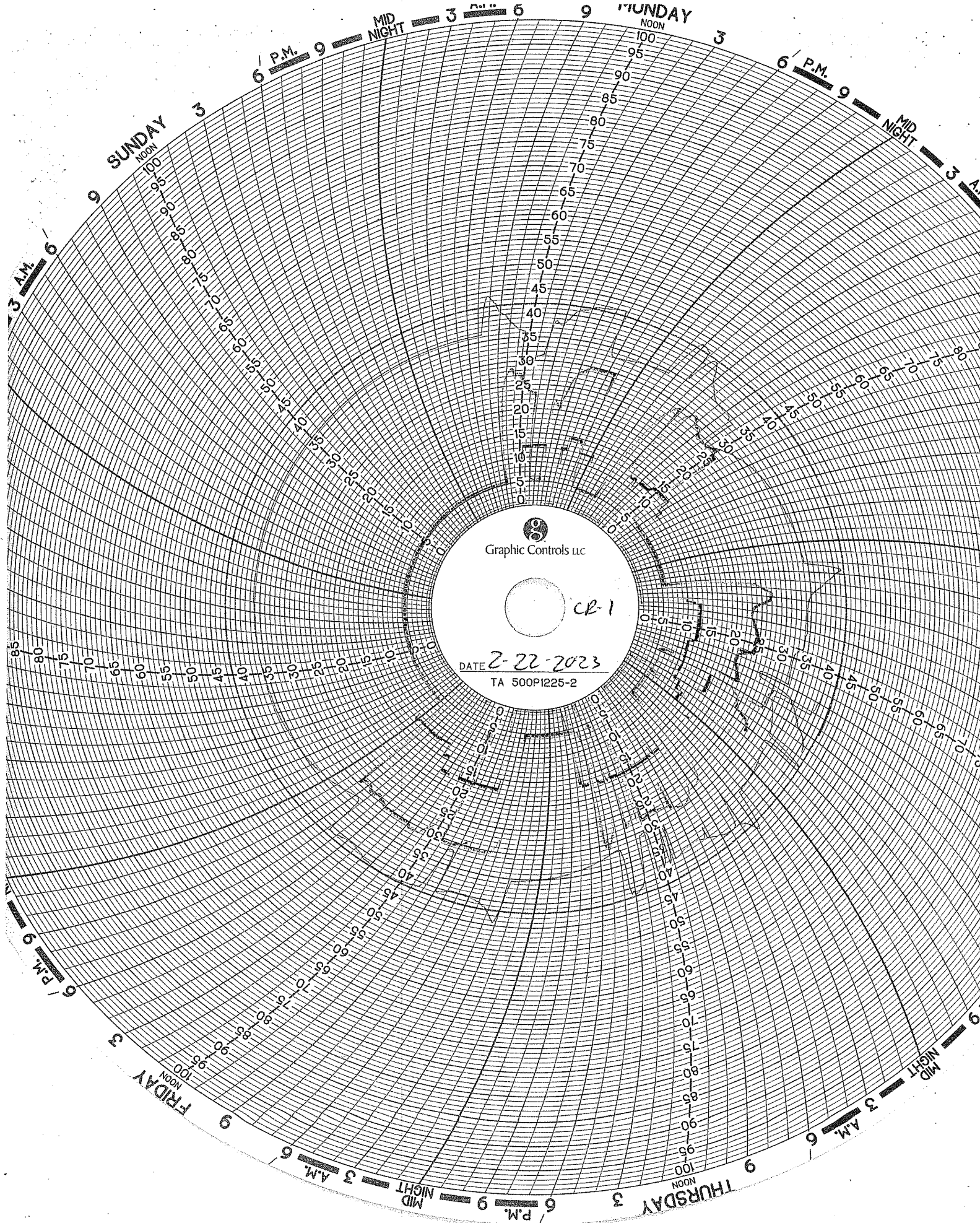
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Graphic Controls LLC

CB-1

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TA 500PI225-2

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WELL 2 DATA



Injection Well 2, February 2023

Date	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
2/1/2023	187.2	939.3	30.3	30.4	916.1	1204.2	1.8	8.0	0.0	51.4	233.6	794.1
2/2/2023	188.1	939.8	30.4	30.5	900.2	1203.4	1.8	7.9	0.0	51.5	232.3	798.1
2/3/2023	155.4	329.8	30.3	30.5	923.3	1,010.1	7.0	7.6	0.0	0.0	615.0	854.6
2/4/2023	137.2	155.7	30.3	30.4	1009.6	1,019.4	7.0	7.1	0.0	6.3	853.9	881.9
2/5/2023	126.7	137.8	30.3	30.5	1,019.0	1,023.1	6.8	7.0	0.0	0.0	881.2	896.2
2/6/2023	121.8	949.3	30.4	30.5	932.2	1,243.8	3.0	7.4	0.0	51.4	208.2	901.1
2/7/2023	143.7	945.9	30.5	30.7	909.2	1,201.4	4.9	7.4	0.0	57.7	227.1	817.5
2/8/2023	172.4	951.1	30.6	30.7	923.0	1,297.9	2.2	8.0	0.0	60.5	247.0	794.1
2/9/2023	165.0	941.0	30.6	30.7	972.2	1,256.8	2.4	7.4	0.0	41.1	291.3	819.0
2/10/2023	161.0	949.4	30.6	30.7	963.4	1,330.7	1.7	9.5	0.0	63.7	319.3	824.2
2/11/2023	151.3	208.9	30.5	30.7	1,000.3	1,017.4	6.8	7.4	0.0	0.0	791.4	865.9
2/12/2023	135.4	151.6	30.5	30.6	1,016.8	1,019.1	6.3	7.4	0.0	0.0	865.4	893.5
2/13/2023	131.1	950.1	30.5	30.6	987.0	1,269.3	1.9	9.1	0.0	60.3	301.7	888.3
2/14/2023	150.6	944.2	30.5	30.7	969.8	1,339.8	2.0	10.9	0.0	60.4	316.6	844.4
2/15/2023	160.7	940.8	30.6	30.8	1,003.6	1,307.7	2.0	7.7	0.0	61.1	344.4	853.8
2/16/2023	160.0	940.0	30.6	30.8	991.7	1,303.3	2.3	7.8	0.0	50.9	340.3	850.0
2/17/2023	134.7	944.2	30.5	30.6	985.2	1,338.2	1.4	7.7	0.0	61.3	336.2	865.8
2/18/2023	135.5	458.2	30.4	30.5	994.4	1,098.8	6.8	7.2	0.0	0.0	640.5	877.7
2/19/2023	121.8	136.1	30.5	30.6	1,012.7	1,014.3	6.6	6.8	0.0	0.0	876.7	892.2
2/20/2023	115.6	946.2	30.6	30.7	936.1	1,297.1	1.4	7.2	0.0	61.7	270.6	898.4
2/21/2023	174.9	935.2	30.6	30.7	934.3	1,263.0	1.7	7.3	0.0	65.5	166.6	808.0
2/22/2023	181.0	939.1	30.6	30.6	825.1	1,247.2	1.4	7.5	0.0	72.1	152.9	802.2
2/23/2023	216.4	875.2	29.6	30.6	860.3	1,282.4	1.8	8.2	0.0	72.5	149.5	906.2
2/24/2023	206.2	936.7	29.7	29.8	1072.7	1,379.4	2.0	7.5	0.0	72.3	356.0	960.3
2/25/2023	193.9	329.1	29.6	29.7	1088.6	1192.0	5.4	6.3	0.0	0.0	759.6	997.9
2/26/2023	168.0	194.3	29.6	29.7	1191.7	1197.3	5.5	6.3	0.0	0.0	997.4	1029.0
2/27/2023	160.8	855.0	29.6	29.7	999.0	1388.8	1.7	7.3	0.0	62.0	502.9	1038.8
2/28/2023	171.8	823.4	29.7	29.8	922.0	1371.7	1.5	7.3	0.0	61.4	301.0	977.7

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

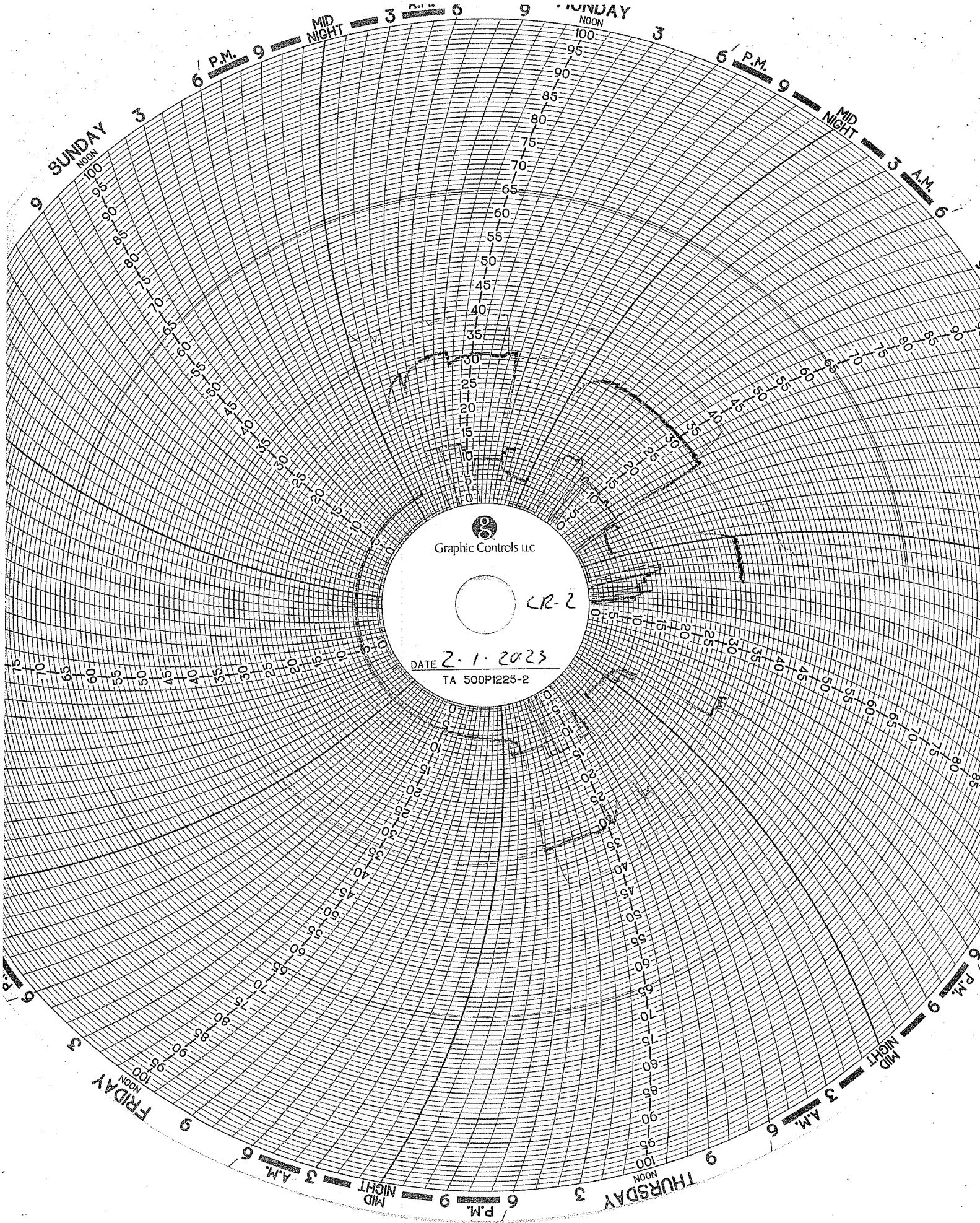
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

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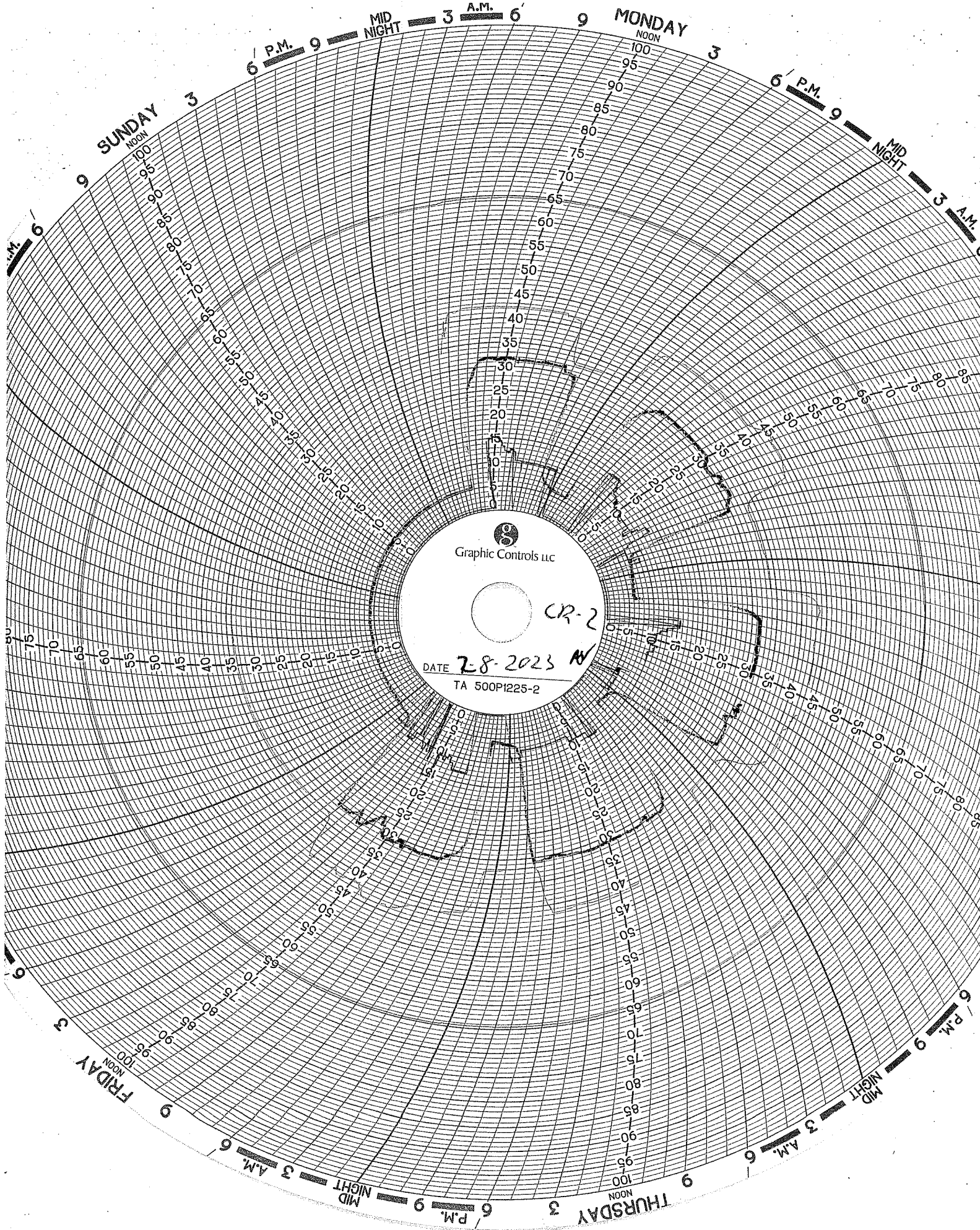
Black Pen — Temperature (chart value x 0)



Graphic Controls LLC

CR-2

DATE 2-1-2023
TA 500P1225-2

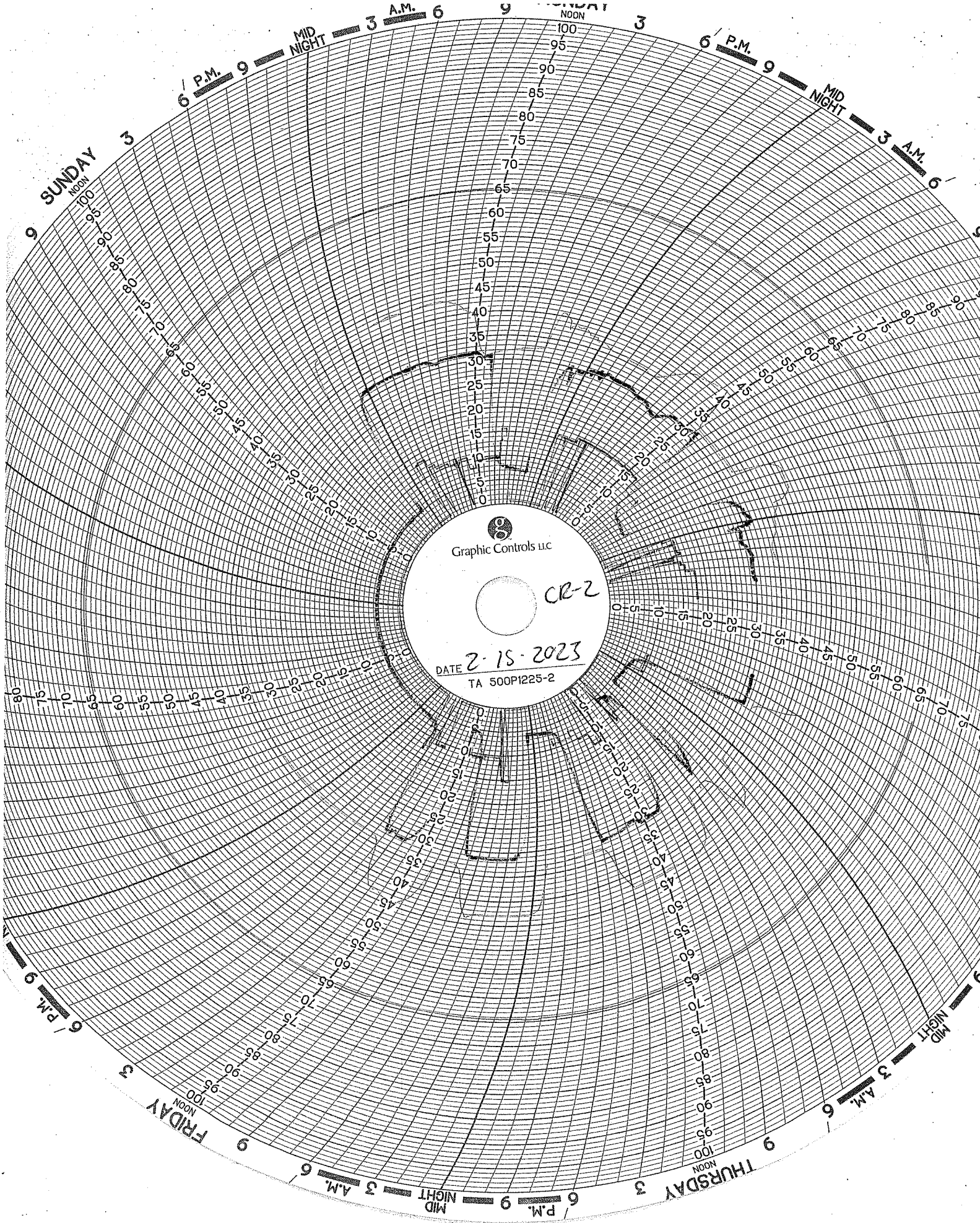


Graphic Controls LLC

CR-2

DATE 2-8-2023 AM

TA 500P1225-2



Graphic Controls LLC

CR-2

DATE 2-15-2023

TA 500P1225-2

SUNDAY
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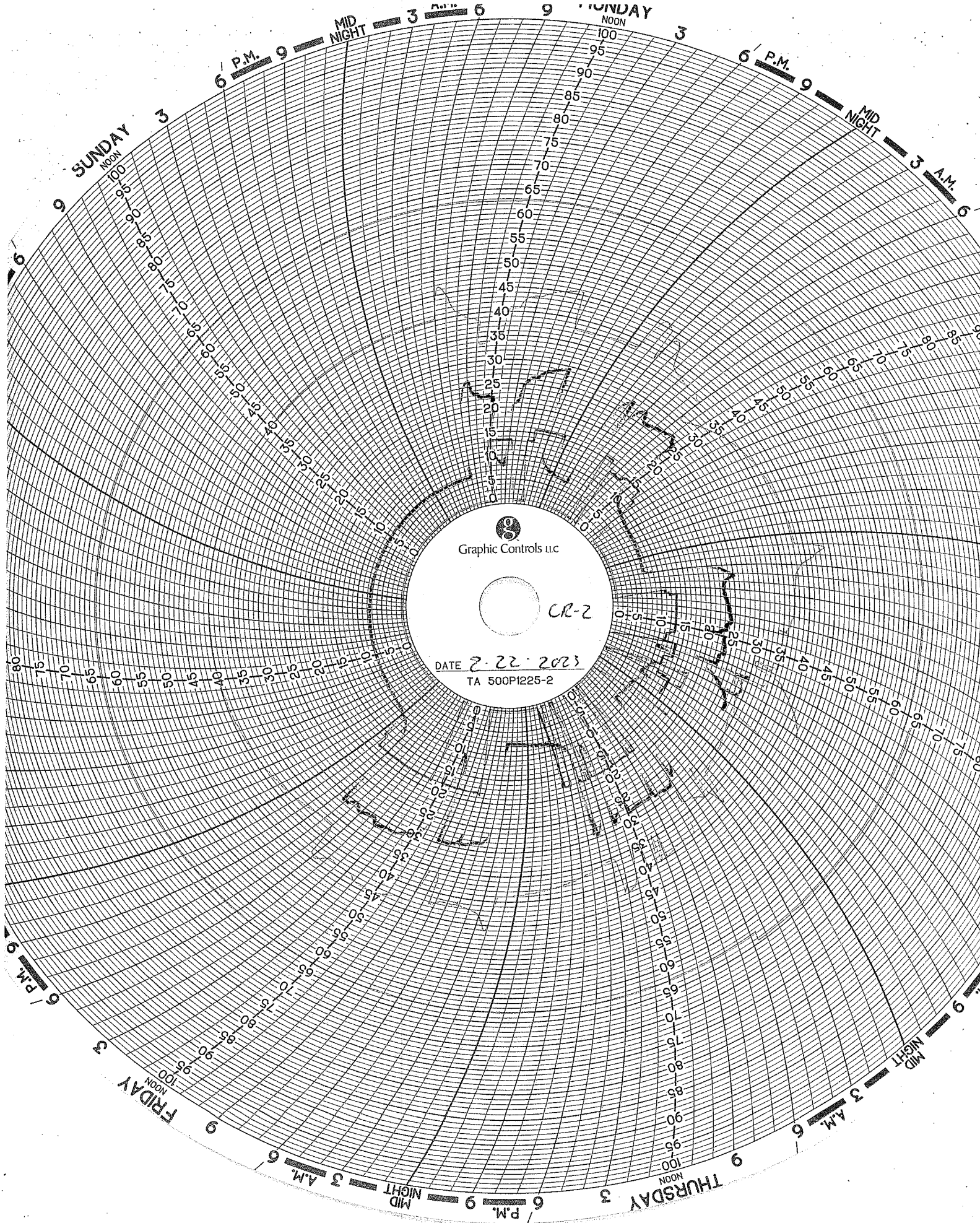
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Graphic Controls uc

CR-2

DATE 7-22-2023

TA 500P1225-2

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Circle Chart Index

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

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

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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

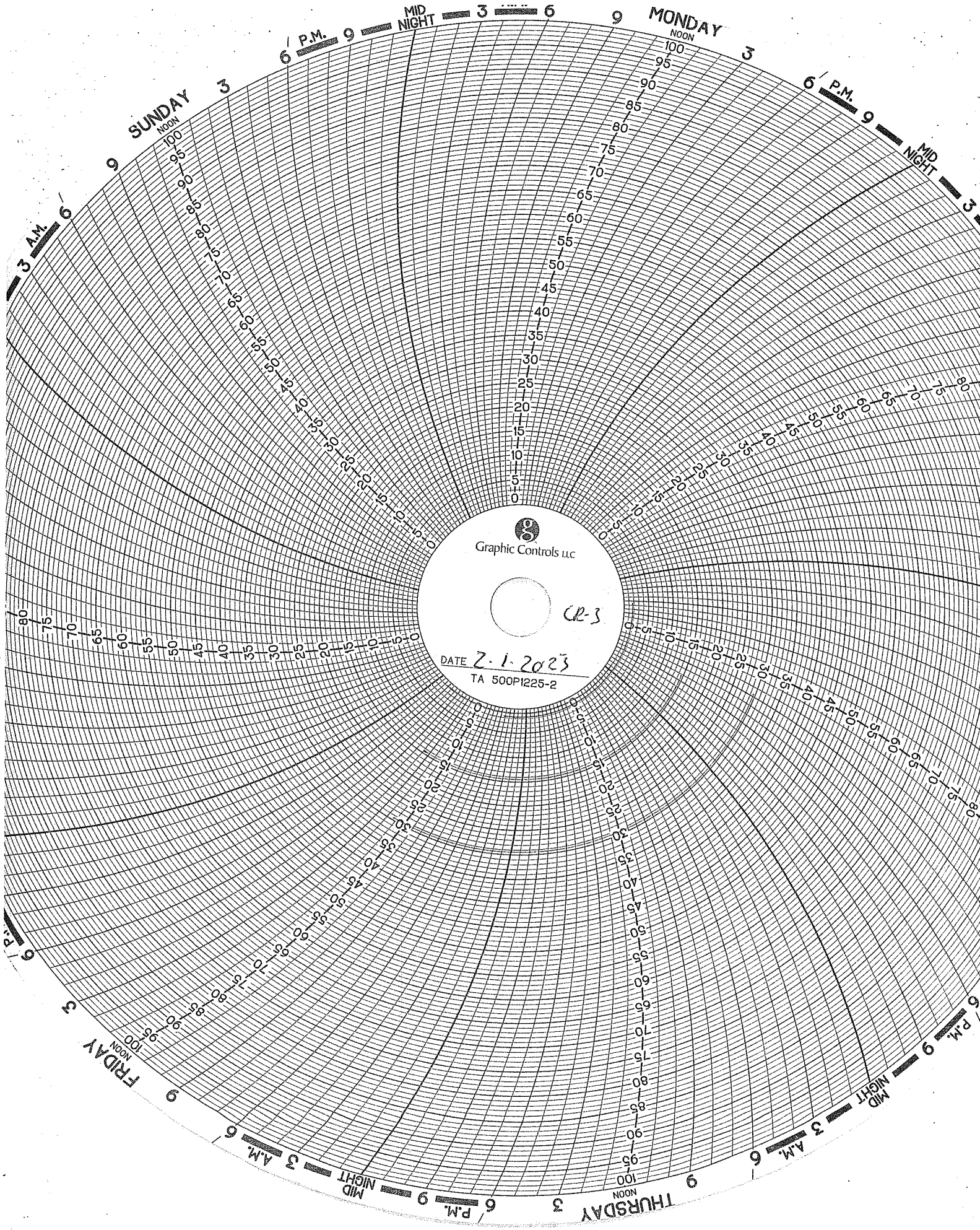
Red Pen — Well 1 Monthly Volume (chart value x 100,000)

Channel #3

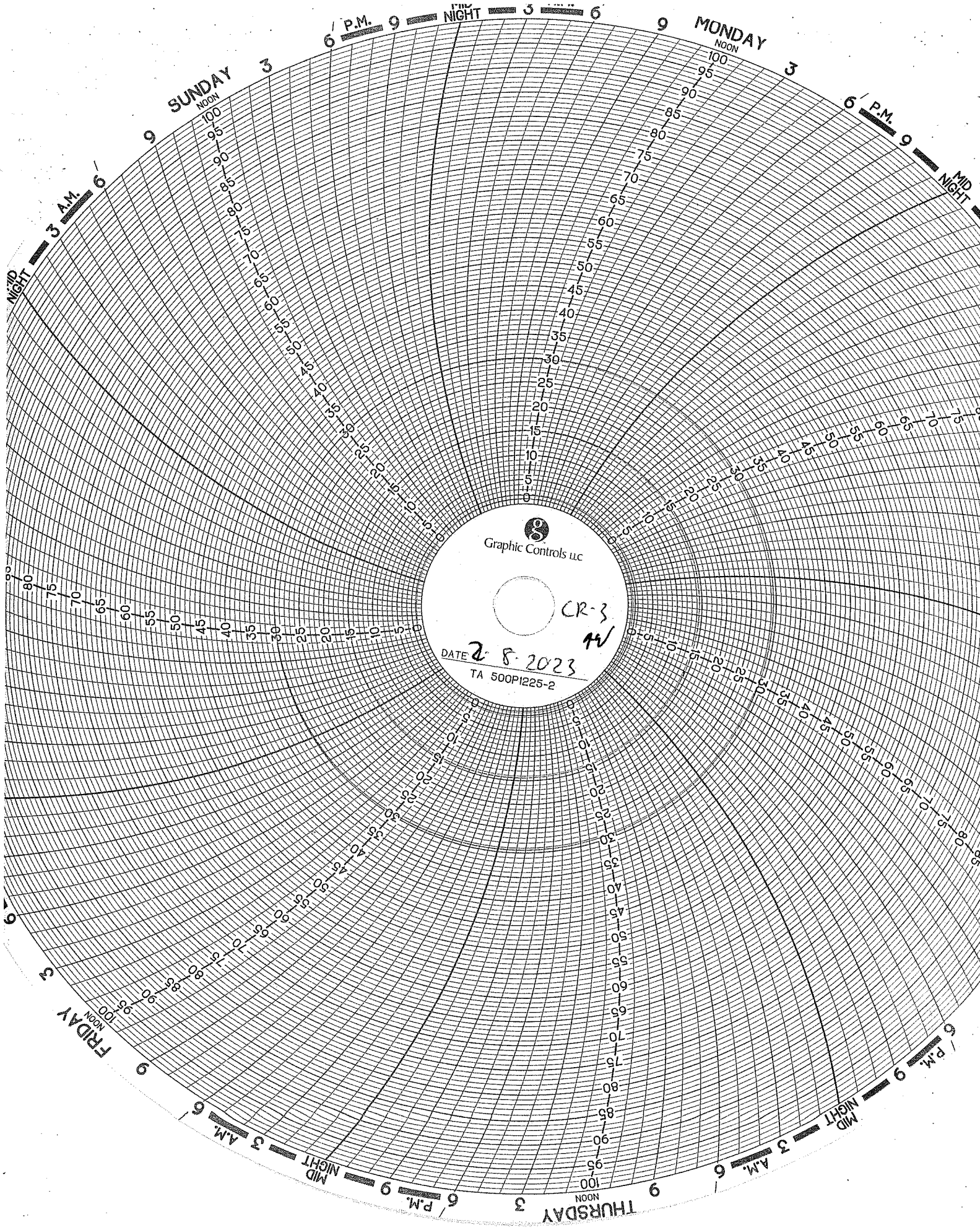
Green Pen — Well 2 Monthly Volume (chart value x 100,000)

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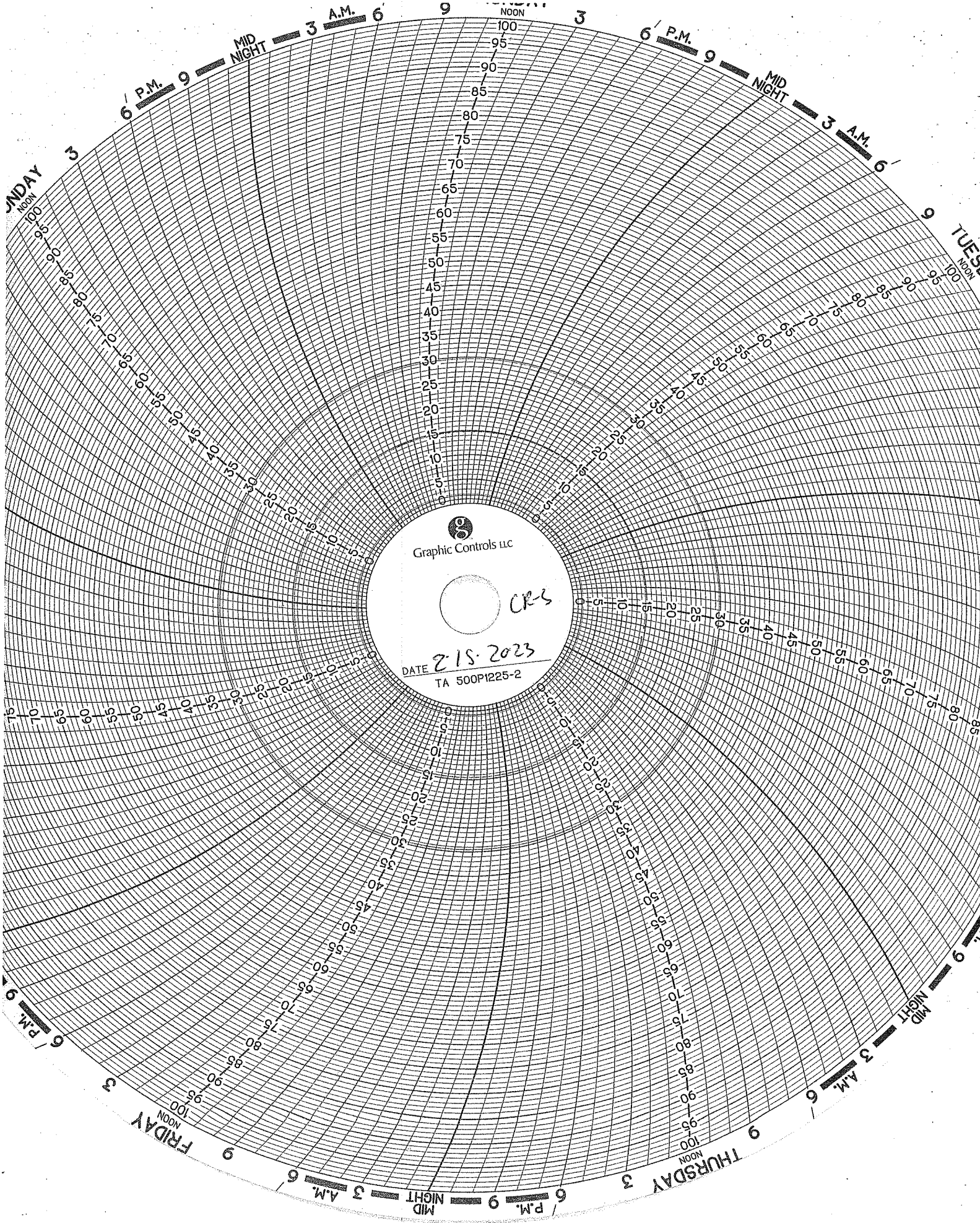
Black Pen — Temperature (chart value x 0)



Graphic Controls LLC
CR-3
DATE 2-1-2023
TA 500PI225-2



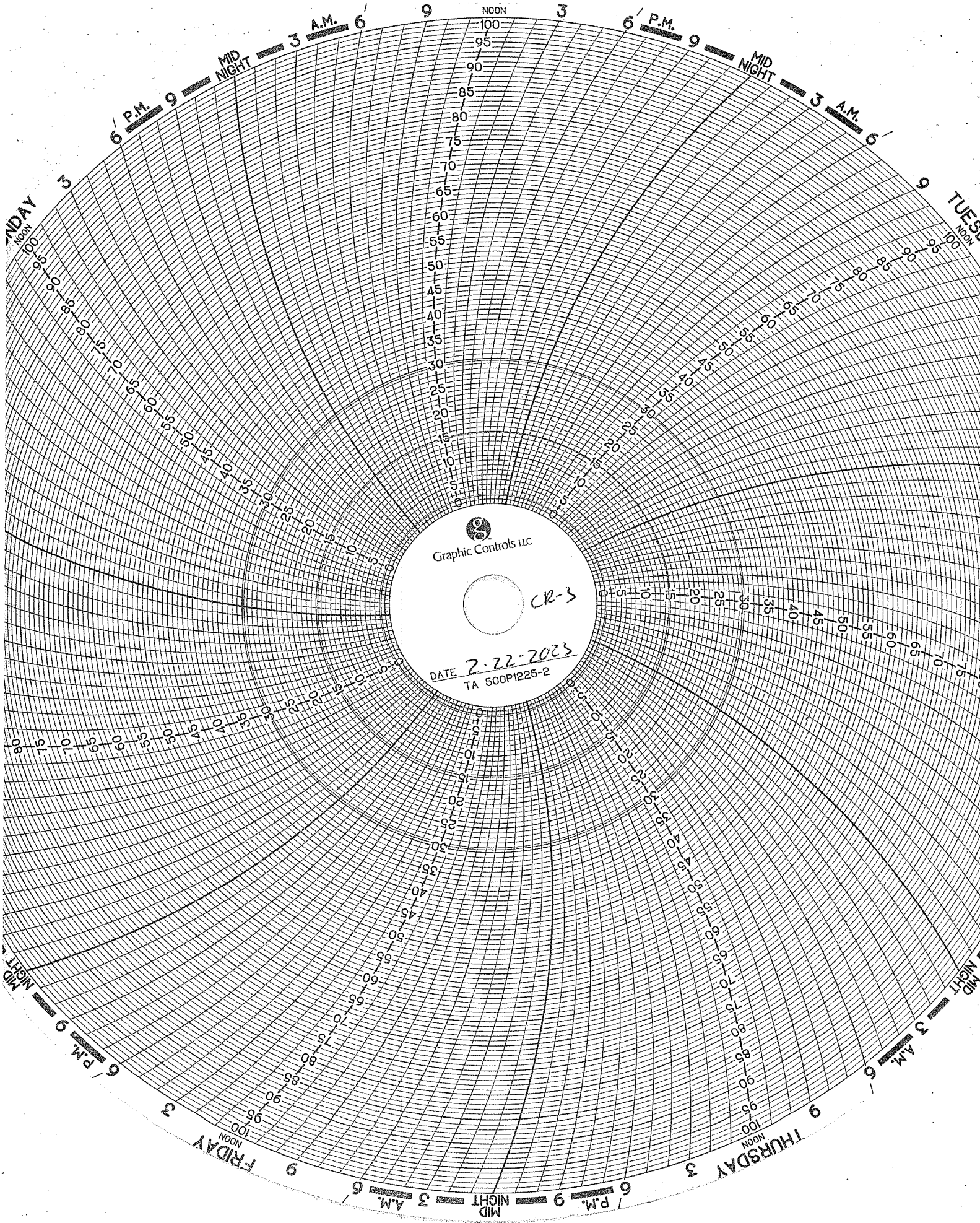
Graphic Controls LLC
CR-3
DATE 2-8-2023
TA 500P1225-2



Graphic Controls LLC

CR-3

DATE 2-15-2023
TA 500PI225-2



Graphic Controls LLC

CR-3

DATE 7-22-2023
TA 500P1225-2

CORROSION MONITORING

**CORROSION MONITORING PLAN
COUPON SUMMARY**

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	New stainless steel coupon
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	
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		
Date	Hastelloy	Stainless Steel	Fiberglass		
10/11/2021	13.277g	9.359g	17.465g		
11/3/2021	13.277g	9.350g	17.273g		
12/15/2021	13.276g	9.351g	17.256g		
1/17/2022	13.276g	9.351g	17.256g		
2/15/2022	13.276g	9.347g	16.965g		

CORROSION MONITORING PLAN
COUPON SUMMARY

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

COOROSION MONITORING COUPONS VISUAL DESCRIPTION

February 2023

Fiberglass Coupon

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

Hastelloy Coupon

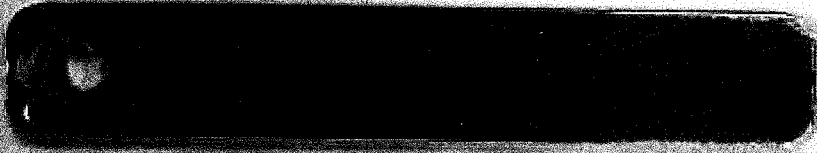
This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There is no effect to this coupon.

Stainless Steel Coupon

This coupon is identified as serial number C1563/316L. No significant change to this coupon since last month. There has been significant pumping on the wells and exposure to hazardous waste.

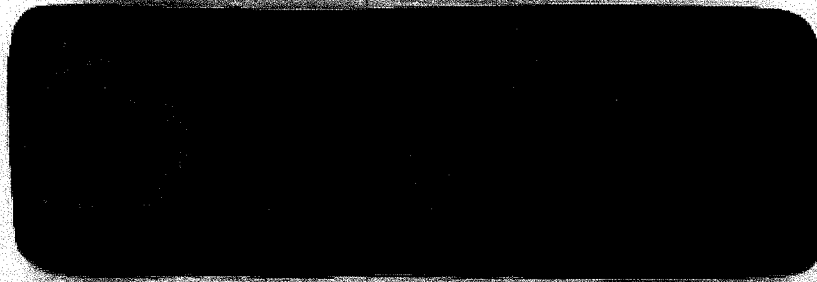
C276 / 5

Weight: 13.274
Date: 02/15/2023



Fiberglass

Weight: 15.728
Date: 02/15/2023



316L / C1563

Weight: 9.130
Date: 02/15/2023



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.



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

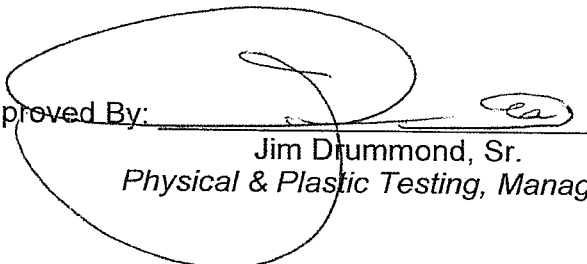
PN 125322
PO 00154

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

*Certificate Numbers 255.01 & 255.02

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



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

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

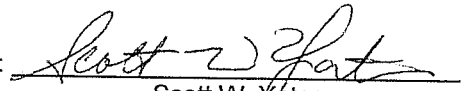
96

Prepared By:


Melissa Martin
Sr. Project Technician

to

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:

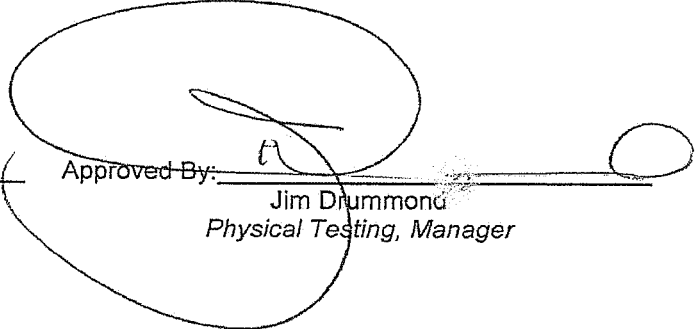
John Frost
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Prepared By:


Melissa Martin
Senior Project Technician

Rev 041916

Approved By:


Jim Drummond
Physical Testing, Manager



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
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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.

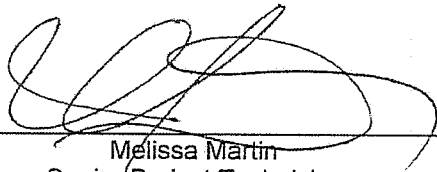
RECEIVED: One (1) small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

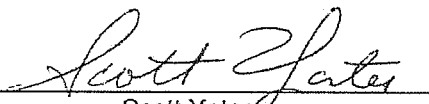
RESULTS

Barcol Hardness, Instant 96

Prepared By:


Melissa Martin
Senior Project Technician

Approved By:


Scott Yates
Plastics Testing, Assistant Manager

wk

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



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



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ISO 9001:2008 Registered



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AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

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.

GHESEQUIERE 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:

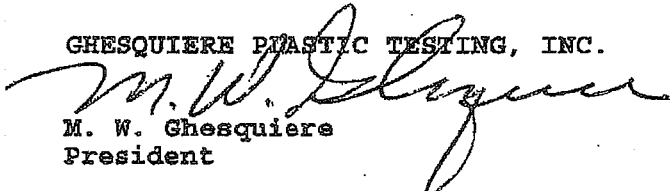
BARCOL HARDNESS

Hardness

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

Specimen is being returned with this report for further evaluation.

GHESEQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1: 90

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

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

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

WORK PERFORMED:

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

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

RESULTS:

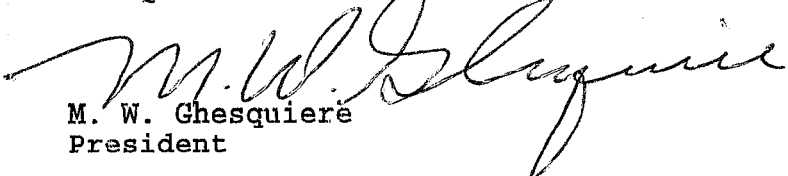
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm



Testing. Development. Problem Solving.

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
Sf. Project Technician

Approved By:

Jim Drummond
Physical & Plastics Testing, Manager



*Certificate Numbers 255.01 & 255.02

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Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

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

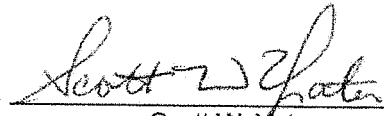
Prepared By:



Melisea Martin
Sr. Project Technician

sf

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

BARCOL HARDNESS REPORT

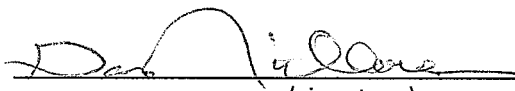
Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

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

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

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

Tested By: 
(signature)

Gary Nicholson
(print or type name)

Date: 01/12/2021

BARCOL HARDNESS REPORT

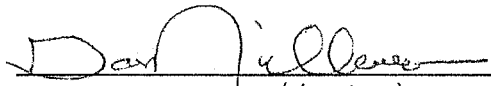
Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

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

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

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

Tested By: 
(signature)

Gary Nicholson **Date:** 10/11/2021
(print or type name)

BARCOL HARDNESS REPORT

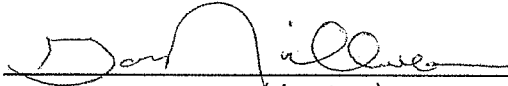
Customer: Republic Industrial and Energy Solutions

Component Tested: Fiberglass Coupon

PO Number: Credit Card Job Number: 3734

Calibration: Disc: 43 - 48 Actual Reading: 45

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

Tested By: 
(signature)

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

MAINTENANCE

UIC Monthly Maintenance Log

No Maintenance this month

INJECTION FINGERPRINTS

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/28/23
Receiving ID#	202282303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	5:00 - 12:20 - 11:45
Time out	
Received by	J. W. Dalton M.
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.1
Conductivity	0.506 mS
% Solids	0.10
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. W. Dalton M.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 28 / 23
Receiving ID#	LO22823 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:48 AM
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.33
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.5
Conductivity	17.25 ms
% Solids	0.92
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 28 / 23
Receiving ID#	I02282301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>J. D. R.</i>
Sampled by	<i>N. Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	4.61
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51.1°
Conductivity	20.6
% Solids	.76%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N. Escobar</i>

.805
4.629
3.824

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 27 / 23
Receiving ID#	IO2272304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2006
Time out	
Received by	A. Werly
Sampled by	A. Werly
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	5.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55°
Conductivity	28.2
% Solids	1.09
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Werly

. 807
4,674
3,862

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 27 / 23
Receiving ID#	102272303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1304
Time out	
Received by	A. Worley
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	3.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	27.2
% Solids	1.45
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 27 / 23
Receiving ID#	162022302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	<i>R. [Signature]</i>
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	2.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.5
Conductivity	1225.05
% Solids	0.38
Turbidity	Yes No
Color	
TSS (%)	20.10
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 27 / 23
Receiving ID#	IO2272301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:50 AM
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.2
Conductivity	1556 μ S
% Solids	0.43
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 24 / 23
Receiving ID#	IO2 242308
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2149
Time out	
Received by	A. Warlick
Sampled by	A. Warlick

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	4.38
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	470
Conductivity	3.48
% Solids	.917
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 24 / 23
Receiving ID#	202 242307
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1933
Time out	
Received by	A. Worley
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	2.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	46°
Conductivity	6.27
% Solids	1.797
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/24/23
Receiving ID#	202242306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1718
Time out	
Received by	<i>J. A. H.</i>
Sampled by	<i>J. M. BEIER</i>

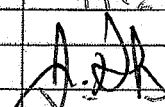
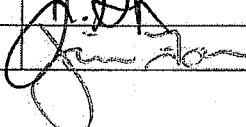
LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.0
Conductivity	7.89 mS
% Solids	2.30
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. A. H.</i>

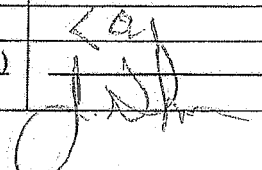
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/24/23
Receiving ID#	102247305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1510
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>M. Beier</i>

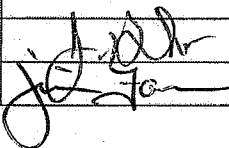
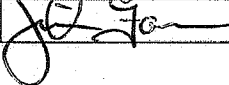
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 240
pH (S.U.)	2.32
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.0
Conductivity	5.13 mS
% Solids	0.32
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>JDR</i>

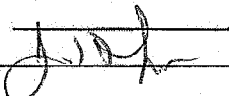
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/24/23
Receiving ID#	IO2242304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:25 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.04
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.1
Conductivity	2.82 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/24/23
Receiving ID#	I02242303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:20 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.48
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.5
Conductivity	3.06 mS
% Solids	0.44
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 24 / 23
Receiving ID#	102242302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:40 AM
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.42
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.8
Conductivity	4.50 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 24 / 23
Receiving ID#	FO2242301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	5:40AM
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

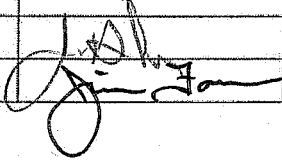
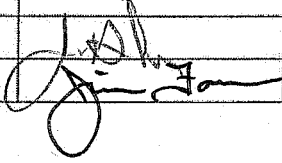
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	3.13
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.2
Conductivity	3.79 mS
% Solids	40.1
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

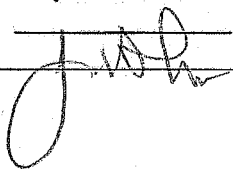
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	202232306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:20
Time out	
Received by	Dalton M.
Sampled by	Dalton M.

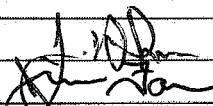
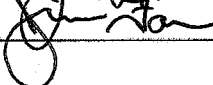
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	4.26
Cyanides? (mg/L)	<30
Sulfides? (ppm)?	<200
Specific Gravity	1.01
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61
Conductivity	4.40 _{µS}
% Solids	.3%
Turbidity	Yes No
Color	Clear
TSS (%)	.1%
Radiation Screen (as needed)	Neg
Lab Signature/Initials	Dalton M.

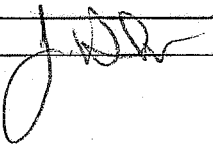
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	I02 23 2305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1:35 PM
Time out	
Received by	
Sampled by	

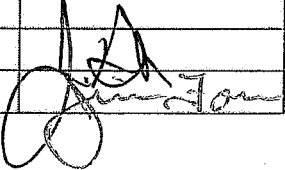
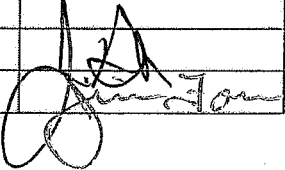
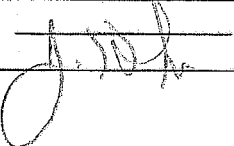
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50.0
Conductivity	2.09 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	I0223 2304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:28 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.8
Conductivity	2.90 mS
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

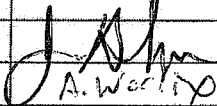
RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	10223 23 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:40 AM
Time out	
Received by	
Sampled by	
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.28
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62.5
Conductivity	5.52 mS
% Solids	LOI
Turbidity	Yes No
Color	
TSS (%)	LOI
Radiation Screen (as needed)	
Lab Signature/Initials	

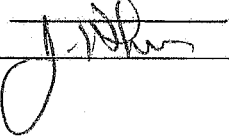
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/22/23
Receiving ID#	I0222306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:55
Time out	
Received by	M Bruce
Sampled by	M Bruce

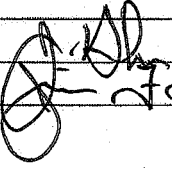
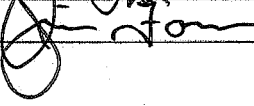
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.08
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	47.2
Conductivity	7.20
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Bruce

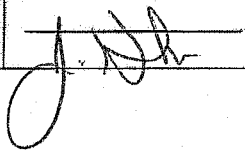
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 22 / 23
Receiving ID#	202 22 23 05
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:43
Time out	
Received by	
Sampled by	A. Warkley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.96
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	49.4
Conductivity	11.40 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	I02232303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:32 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	48.6
Conductivity	3.05 uS
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 22 / 23
Receiving ID#	IO2229302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:38
Time out	
Received by	<i>J. J. R.</i>
Sampled by	<i>T. Sullivan M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.58
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.7
Conductivity	74.8 <i>ms</i>
% Solids	4.78
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. J. R.</i>

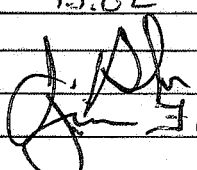
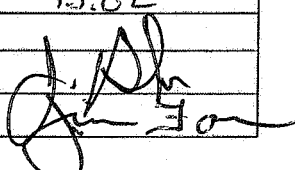
RECEIVING & APPROVAL FORM

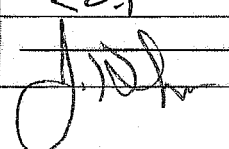
RECEIVING INFORMATION	
Date	2 / 23 / 23
Receiving ID#	102232301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:05 Am
Time out	
Received by	<i>J. D. H.</i>
Sampled by	<i>Kell Barnett</i>

SST-1

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	710
pH (S.U.)	5.44
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.1
Conductivity	63.8ms
% Solids	40.1
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. H.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/22/23
Receiving ID#	102222304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:02
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	46.8
Conductivity	4.54 mS
% Solids	< 0.1
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 22 / 23
Receiving ID#	102222303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:29
Time out	
Received by	<i>J. AD</i>
Sampled by	<i>John Fourn</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.09
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50.0
Conductivity	20.2 mS
% Solids	0.65
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. AD</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 22 / 23
Receiving ID#	T02222301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>N. Escobar</i>
Sampled by	<i>N. Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>110°
pH (S.U.)	5.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.7
Conductivity	55
% Solids	1.14%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N. Escobar</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 21 / 23
Receiving ID#	Z02 2123 07
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:17
Time out	
Received by	A. Worley
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	4.7
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57°
Conductivity	29.3
% Solids	2.39
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	Yes
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/21/23
Receiving ID#	202212306
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:00
Time out	
Received by	M Beier
Sampled by	M Beier

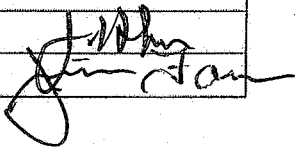
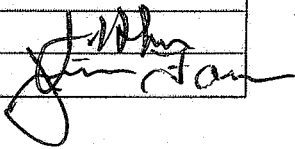
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.95
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.1
Conductivity	34.3
% Solids	1.75
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beier

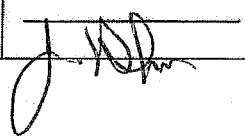
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2/21/23
Receiving ID#	IO2 212309
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:41
Time out	
Received by	A. Varlio
Sampled by	A. Weckel

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 140°
pH (S.U.)	2.07
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	48°
Conductivity	9.34
% Solids	131
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Weckel

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 21 / 23
Receiving ID#	102212304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:30
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	2.61
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51.1
Conductivity	3.82 ms
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 21 / 23
Receiving ID#	I02212303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:04
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.10
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.1
Conductivity	2.77 mS
% Solids	0.20
Turbidity	Yes <input checked="" type="radio"/> No
Color	Colorless
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 21 / 23
Receiving ID#	103212302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:51
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.1
Conductivity	12.75ms
% Solids	<0.1
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 21 / 23
Receiving ID#	102212301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:48
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	1.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	64.7
Conductivity	11.99 mS
% Solids	0.16
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 120 123
Receiving ID#	202202305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:16
Time out	
Received by	M Beier
Sampled by	M Beier

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 148
pH (S.U.)	2.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.7
Conductivity	6.20
% Solids	.07
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beier

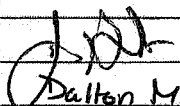
RECEIVING & APPROVAL FORM

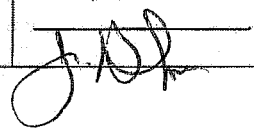
RECEIVING INFORMATION	
Date	02 / 20 / 23
Receiving ID#	IO22023 04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:26
Time out	
Received by	M BEER
Sampled by	M BEER
LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	2.40
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63
Conductivity	33.7
% Solids	241
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEER

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 20 / 23
Receiving ID#	I02202303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:05
Time out	
Received by	J. Walker
Sampled by	Dallon M.
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.51
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.7
Conductivity	311.05
% Solids	1.45
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J. Walker

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 20 / 23
Receiving ID#	I02202302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:44
Time out	
Received by	
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	2.91
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	61.5
Conductivity	30.5 mS
% Solids	1.73
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 20 / 23
Receiving ID#	102202301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:41
Time out	
Received by	<i>J. Dalton</i>
Sampled by	<i>Dalton M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	4.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.024
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.6
Conductivity	30.6 cm/s
% Solids	1.91
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>JAD</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 17 / 23
Receiving ID#	202172303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:20
Time out	
Received by	M Beck
Sampled by	M Beck

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.46
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.2
Conductivity	58.2
% Solids	3.46
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beck

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 17 / 23
Receiving ID#	102172302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:09
Time out	
Received by	<i>J. N. M.</i>
Sampled by	<i>Dillon M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.8
Conductivity	23.7 mS
% Solids	1.20
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. N. M.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 11 23
Receiving ID#	IO2172301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:59
Time out	
Received by	<i>J. [Signature]</i>
Sampled by	Delton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52.8
Conductivity	20.2
% Solids	1.23
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. [Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 116 123
Receiving ID#	702162303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:25
Time out	
Received by	A. Ward
Sampled by	A. Ward

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	4.87
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56°
Conductivity	29.2
% Solids	.751
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Ward

4.652

FINGERPRINT FORM

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RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 116 123
Receiving ID#	102167302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:52
Time out	
Received by	A. Worley
Sampled by	A. Worley

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71100
pH (S.U.)	6.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	27.9
% Solids	.729
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 16 / 23
Receiving ID#	202162301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:18
Time out	
Received by	<i>J. D. R.</i>
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.72
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.6
Conductivity	29.4 us
% Solids	1.50
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. R.</i>

RECEIVING & APPROVAL FORM

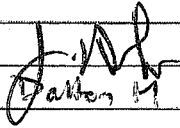
RECEIVING INFORMATION	
Date	2 / 15 / 23
Receiving ID#	Z02 15 23 04
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:53
Time out	
Received by	A. Waring
Sampled by	A. Waring
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7 1400
pH (S.U.)	5.99
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	29.1
% Solids	1.28 1.28
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Waring

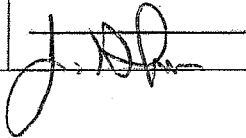
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 15 / 23
Receiving ID#	202152303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:57
Time out	
Received by	M. Beyer
Sampled by	M. Beyer

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	740
pH (S.U.)	5.86
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.3
Conductivity	28.1
% Solids	1.62
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M. Beyer

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 15 / 23
Receiving ID#	102152302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:36
Time out	
Received by	
Sampled by	Patton, J

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.26
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.1
Conductivity	24.2 mS
% Solids	1.36
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 15 123
Receiving ID#	202152301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:46
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.8
Conductivity	206 μ S
% Solids	1.05
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 14 / 23
Receiving ID#	202142304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:08
Time out	
Received by	M Berger
Sampled by	m Berger

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7146
pH (S.U.)	6.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.5
Conductivity	18.03
% Solids	.41
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	m Berger

U. 961

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4,146

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 114 123
Receiving ID#	102.14 23 0 ²
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:04
Time out	
Received by	A. Worley
Sampled by	A. Worley
LAB. INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.71
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	62°
Conductivity	47.4
% Solids	98.9
Turbidity	Yes No
Color	
TSS (%)	< 10%
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

RECEIVING & APPROVAL FORM

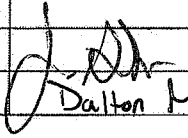
RECEIVING INFORMATION	
Date	/ / 23
Receiving ID#	
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

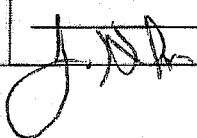
I02142302

Not Taken

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

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 14 / 23
Receiving ID#	102142301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:50
Time out	
Received by	
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	3140
pH (S.U.)	5.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.6
Conductivity	26.1 uS
% Solids	1.78
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 13 123
Receiving ID#	I02132304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20191
Time out	
Received by	A. Worley
Sampled by	A. Worley
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	5.39
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	570
Conductivity	28.4
% Solids	6.45
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

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885
3.526

FINGERPRINT FORM

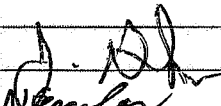

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

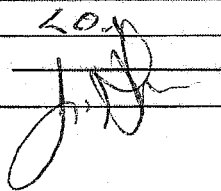
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 13 123
Receiving ID#	202132303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:53
Time out	
Received by	M BARR
Sampled by	M BARR

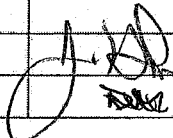
LAB INFORMATION	
Compatible? (RT#)	4
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140 > 140
pH (S.U.)	5.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	57.1
Conductivity	28.1
% Solids	2.15
Turbidity	Yes No
Color	
TSS (%)	> 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BARR

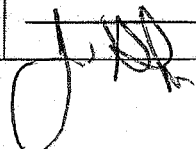
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 13 / 23
Receiving ID#	I02132703
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.6
Conductivity	28.2 mS
% Solids	1.69
Turbidity	Yes No
Color	
TSS (%)	20.4
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 13 / 23
Receiving ID#	I02132301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:27
Time out	
Received by	
Sampled by	_____ Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	5.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.05
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51.5
Conductivity	30.9 μ S
% Solids	2.94
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02/ 1 10 123
Receiving ID#	202102304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:00
Time out	
Received by	M Beck
Sampled by	m Beck

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58.1
Conductivity	8.45
% Solids	.95
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beck

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 10 / 23
Receiving ID#	F02102303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:33
Time out	
Received by	<i>J. DR</i>
Sampled by	<i>MA</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.07
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.4
Conductivity	33.6 μ S
% Solids	3.04
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. DR</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 10 / 23
Receiving ID#	102102302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:20
Time out	
Received by	<i>J. Adams</i>
Sampled by	<i>MA</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	8.0
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	59.5
Conductivity	34.4 μ S
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Adams</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 10 / 23
Receiving ID#	102102301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:39
Time out	
Received by	<i>J. John</i>
Sampled by	<i>Donna Rod</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.1
Conductivity	24.9 ms
% Solids	0.97
Turbidity	Yes No
Color	
TSS (%)	LDJ
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. John</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 9 / 23
Receiving ID#	22092204
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:01
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>A. Worley</i>
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	2.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	Liquid
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	58°
Conductivity	39.7
% Solids	2.22
Turbidity	Yes No
Color	
TSS (%)	0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

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3.867

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 09 / 23
Receiving ID#	202092303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:27
Time out	
Received by	M BEIER
Sampled by	M BEIER

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140
pH (S.U.)	2.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.8
Conductivity	31.1
% Solids	1.9
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEIER

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 19 123
Receiving ID#	T02092302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:55
Time out	
Received by	<i>J. D. R.</i>
Sampled by	<i>Debra M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.6
Conductivity	27.9 μ S
% Solids	1.49
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. R.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 9 / 23
Receiving ID#	T02092301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	<i>N Escobar</i>
Sampled by	<i>N Escobar</i>
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140°
pH (S.U.)	6.52
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53°
Conductivity	23.8
% Solids	1.36%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

4.454

797

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

815

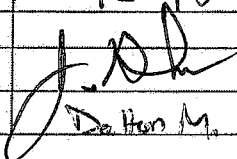
3.657

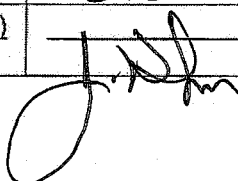
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 18 123
Receiving ID#	102.082304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:28
Time out	
Received by	A. Woods
Sampled by	A.W.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
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)	61°
Conductivity	21.3
% Solids	0.492
Turbidity	Yes No
Color	Brown
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Woods

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 18 123
Receiving ID#	202082303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:48
Time out	
Received by	
Sampled by	De Hon M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	65.9
Conductivity	26.2 mS
% Solids	5.60
Turbidity	Yes No
Color	
TSS (%)	3.0
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 8 / 23
Receiving ID#	106087301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:18
Time out	
Received by	<i>J. D. J.</i>
Sampled by	<i>DeWitt M.</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	3.2
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	60.8
Conductivity (µS)	221.0 14.78 µS
% Solids	0.92
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. D. J.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 8 / 23
Receiving ID#	I02082361
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>N Escobar</i>
Sampled by	<i>N Escobar</i>

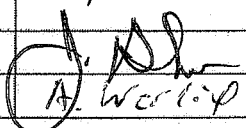
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	6.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.050
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50.7°
Conductivity	23.6
% Solids	1.26%
Turbidity	Yes No
Color	
TSS (%)	<0.1%
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

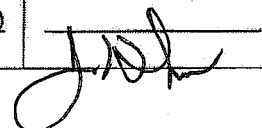
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 17 123
Receiving ID#	102072308
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:57
Time out	
Received by	A. Worlo
Sampled by	A. Worlo

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.15
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	52°
Conductivity	24.1
% Solids	.437
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worlo

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 17 123
Receiving ID#	102072304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:01
Time out	
Received by	
Sampled by	A. West

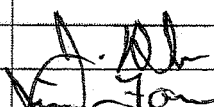
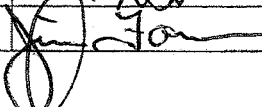
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.04
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	54.2
Conductivity	1970.5
% Solids	0.86
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

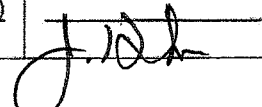
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 7 / 23
Receiving ID#	IO2072303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:00
Time out	
Received by	<i>J. Alvarado</i>
Sampled by	<i>M. Garcia</i>

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	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53.3
Conductivity	22.4
% Solids	1.07
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	<i>J. Alvarado</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 07 / 23
Receiving ID#	102072307
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:40 AM
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	5.14
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	56.7
Conductivity	29.1 us
% Solids	2.71
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 7 / 23
Receiving ID#	102020301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:45
Time out	AC:45
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.06
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.8
Conductivity	30.3 μ S
% Solids	2.82
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 10 2020
Receiving ID#	202062304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1911
Time out	
Received by	M BEIER
Sampled by	M BEIER
LAB INFORMATION	
Compatible? (RT#)	∅
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	MB > 140
pH (S.U.)	6.31
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51.6
Conductivity	20.5
% Solids	1.82
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	M BEIER

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 10 23
Receiving ID#	202062303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	2 14:10
Time out	
Received by	M Beier
Sampled by	M Beier

LAB INFORMATION	
Compatible? (RT#)	Y
PCBs (ppm) (Oily Waste Only)?	N/A
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	7.16
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.00
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50.7
Conductivity	16.52
% Solids	.75
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	M Beier

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 06 / 23
Receiving ID#	I02 06 2301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	7:00 AM
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

02

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2740
pH (S.U.)	5.74
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51
Conductivity	12.73
% Solids	0.26
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>[Signature]</i>

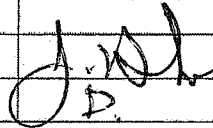
4.527
 -807-822
 5-72

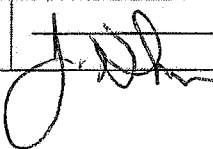
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 1 2 123
Receiving ID#	702022303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:36
Time out	
Received by	A. Worley
Sampled by	A. Worley


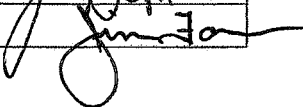
LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	7140 ^o
pH (S.U.)	6.12
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	53 ^o
Conductivity	15.57
% Solids	.403
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Worley

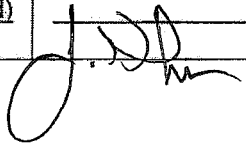
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 12 123
Receiving ID#	I 02.02.23.02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:49
Time out	
Received by	
Sampled by	J.D.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	1.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	55.7
Conductivity	14.74 mS
% Solids	0.34
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	02 / 2 / 23
Receiving ID#	I02022302
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:12
Time out	
Received by	
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.9
Conductivity	10.85 mS
% Solids	0.80
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 2 / 23
Receiving ID#	I02022301
Manifest #	Line
Land Ban Cert included	Yes - No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:16
Time out	
Received by	J.H.
Sampled by	D.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	3.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50.4
Conductivity	22.5 uS
% Solids	1.31
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 11 123
Receiving ID#	102012305
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:27
Time out	
Received by	A. Warlick
Sampled by	A. Warlick

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140°
pH (S.U.)	6.48
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	15.91
% Solids	.429
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warlick

4.2907

.802 - 818

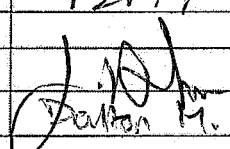
3.442

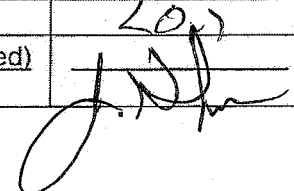
RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 1 / 23
Receiving ID#	I02012304
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:00
Time out	
Received by	A. Warley
Sampled by	A. Warley

LAB INFORMATION	
Compatible? (RT#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	71400
pH (S.U.)	6.25
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	51°
Conductivity	15.69
% Solids	.464
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	A. Warley

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 1 / 23
Receiving ID#	107012303
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:47
Time out	
Received by	
Sampled by	Dalton M.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	63.3
Conductivity	14.26
% Solids	0.74
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	

RECEIVING & APPROVAL FORM

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

I 02012302
Not taken

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

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	2 / 1 / 23
Receiving ID#	I02013301
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	<i>N Escobar</i>
Sampled by	<i>N Escobar</i>

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140°
pH (S.U.)	5.80
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.000
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	50°
Conductivity	14.89
% Solids	.76%
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>N Escobar</i>

WASTE PROFILES



Republic Services

18500 N. Allied Way, Phoenix, AZ 85054

SPECIAL WASTE DEPARTMENT DECISION

Waste Profile # 6440232333		Expiration Date 2/1/2024	
I. Decision Request: <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Recertification <input type="checkbox"/> Change			
Disposal Facility: 6440 - Detroit Ind Well			
Generator Name: NORFOLK SOUTHERN RAILWAY COMPANY			
Generator Site Address: MP PC49 RR TRACKS NE N PLEASANT			
City: EAST PALESTINE	County: <input type="text"/>	State: OH	Zip: <input type="text"/>
Name of Waste: WATER IMPACTED WITH WINYL CHLORIDE			
Estimated Annual Volume: 2,800,000 Gallons			

II. Special Waste Department Decision: Approved Rejected

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

Problematic Special Waste according to Republic? Yes No

If yes, which one?

Approved by Special Waste Review Committee? Yes No Not Applicable

Precautions, Conditions or Limitations on Approval

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

Special Waste Analyst Signature:  Name (Printed): Stephen Brown
Date: 2/20/2023

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: 2/20/2023

Republic Industrial and Energy Solutions, LLC

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

GENERATOR WASTE PROFILE

6440232333

Profile # _____

GENERATOR INFORMATION

Name: Norfolk Southern Railway Company USEPA ID # OHR000221457
 Facility Address: MP PC49 RR Tracks NE N Pleasant SIC/NAICS Code: State Code: _____
 City: East Palestine State: OH Zip Code: 44413
 Contact: Dan Hunt Title: _____ Phone: (404) 273-4472 Fax: () _____

BILLING INFORMATION

SAME AS ABOVE

Company Name: Specialized Professional Services, Inc
 Address: 300 Commercial Drive
 City: Washington State: PA Zip Code: 15313
 Attention: Josh Lindley Title: Compliance Manager Phone: (724) 579-8700 Fax: () _____

WASTE INFORMATION

Name of Waste/Common Chemical Name:
Water Impacted with Vinyl chloride

Process Generating Waste (Please be specific, incomplete information may delay the approval process):
 Train Derailment involving 5 railcars of unused commercial grade Vinyl Chloride (VC). Derailment also involved releases of Butyl Acrylate, Ethylhexyl Acrylate, 2-Butoxyethyl Acetate, Ethylene Glycol Monobutyl Ether Acetate, Lube oil, and isobutylene. Waste stream is water generated from interceptor trenches, dams & Surface puddles and may contain any/all of the released products. Waste determination based on generator knowledge of chemicals released concentrations of VC & Flashpoint of other Frac Tans. During the respose, approximately 40 gallons of PFAS containing AFFF was used (Approx 0.2%)

USEPA / STATE WASTE IDENTIFICATION

- This waste is considered to be: Non Hazardous Liquid Industrial Waste Hazardous Waste
- Regulated by TSCA? Yes No (PCBs, etc.)
- List ALL Applicable Waste Codes: U043

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 type="checkbox"/> 1.0 — 1.2 <input checked="" 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 >12.5

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

VOC CONCENTRATION - 3.4 ppm PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	95	99			
Vinyl Chloride (22-290 ug/L)	0	0.00003			
Sediment (TSS) (28-11000 mg/L)	0	1.1			

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	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 1
 3. DOT Shipping Name Hazardous Waste Liquid, NOS (Vinyl Chloride) Hazard Class 9 UN/NA NA3082
 PG III ERG _____ Hazardous Constituents for "n.o.s." Vinyl Chloride
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now multiple 6. Anticipated Volume / Units per Year: 2.8 million 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: Robert Scoble Title: Mgr ENV OPS
 Generator's Signature: [Signature] Date: 2/18/23

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. Collected from Frac tanks
 SAMPLING METHOD COLLECTION POINT
 3. Arcadis
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

See attached analytical reports J180173-1 & J180173-2, Sample IDs: WC-1/2023-02-09/, WC-2/2023-02-09/, WC-3/2023-02-09/, WC-4/2023-02-09/, WC-5/2023-02-09/.

4. Sample No. WC-1 through WC-5 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 #
6440232332

Expiration Date
2/9/2024

I. Decision Request:

Initial Recertification Change

Disposal Facility: 6440 - Detroit Ind Well

Generator Name: PREMIERE PACKAGING

Generator Site Address: 6220 LEHMAN DR

City: FLINT

County:

State: MI

Zip:

Name of Waste: SOAP RINSE WATER

Estimated Annual Volume: 192,000 Gallons

II. Special Waste Department Decision:

Approved Rejected

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

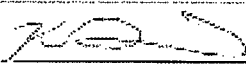
Problematic Special Waste according to Republic? Yes No

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: 2/20/2023

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: ~~2/20/23~~

2.21.23

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 # 6440232332

GENERATOR INFORMATION

Name: Premiere Packagaing USEPA ID # MID982072217

Facility Address: 6220 Lehman Dr SIC/NAICS Code: State Code:

City: Flint State: MI Zip Code: 48507

Contact: Chuck Czarnicki Title: Phone: () Fax: ()

BILLING INFORMATION

SAME AS ABOVE

Company Name: Environmental & Disposal Management

Address: 1900 Stephenson Hwy Suite 100

City: Troy State: MI Zip Code: 48314

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Soap Rinse Water

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

Equipment clean out and change of flushes. Equipment-Product dispensing guns fill bottles that roll down on a conveyor line. Once product is bottled the dispenser guns are flushed with water to set up for the next soap product.

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 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
--	---	---	---

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 $\leq 0.1\%$)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	90	80			
Soap	20	10			

Metals: Indicate if this waste contains any of the following metals

If Generator knowledge-provide backup Lab Analysis Generator Knowledge TCLP TOTAL

	Not Present	Concentration	Not Present	Concentration							
PCB	<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	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-Poitive Carcinogens NESHAP Wastes (Benzene, etc.) Biological None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes No
 2. Reportable Quantity (RQ) in pounds _____
 3. DOT Shipping Name non regulated Hazard Class _____ UN/NA _____
 PG _____ ERG _____ Hazardous Constituents for "h.o.s." _____
 4. Method of Shipment: Bulk Tanker Vac truck Rail Car Drums Totes
 5. Number of Units to Ship Now 7-10000 gl 6. Anticipated Volume / Units per Year: 192000gl 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: Chuck Czarnicki Title: EHS Mgr
 Generator's Signature: [Signature] Date: 2-9-23

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. Holding Tank
 SAMPLING METHOD COLLECTION POINT
 3. Jay Kanapsky Account Manager EDM
 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



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

Republic Industrial and Energy Solutions, LLC

Required notice of waste acceptance [40 CFR 264.12(b)]

Generator: Premiere Packaging

Generator Address 6220 Lehman Drive

Waste Name: Soap Rinse water

Waste Codes: none

RIES approval number: 6440232332

Republic Industrial and Energy Solutions, LLC (RIES) hereby informs the waste generator identified above that RIES has all of the appropriate permits and licenses and will accept the waste stream identified by the above waste name and RIES approval number

Signature: 

John Frost Operations Manager

Date: 2.21.23

WORK ORDER

COMPANY	
COMPANY NAME (the "Company"): Environmental and disposal management	
ATTN: Jay/ Lamar	
ADDRESS: 1900 Stephenson Highway Suite 100	
CITY: Troy	ZIP CODE:
STATE: MI	
TEL NO.:	FAX NO.:

REPUBLIC	
LEGAL ENTITY NAME ("Republic"): Republic Industrial and Energy Solutions, LLC	
ADDRESS: 28470 Citrin Drive	
CITY: Romulus	ZIP CODE: 48174
STATE: MI	
AUTHORIZED BY: John F	TITLE: Site manager
CONTACT: Tim J	TITLE:

This Work Order is entered into by and between Company and Republic in accordance with the terms and conditions of the Deep Well Master Disposal Agreement entered into by and between Company and Republic dated _____, 20__.

1. Services and Base Rates.

Description of service to be performed	Rate	Unit
Disposal on Non-Haz Soap Water 6440232332	\$0.35	Per gallon
Washout	\$300.00	each
Solid surcharge	\$0.35	Per gallon if needed

2. Term. Services shall begin on 02/20/2023 and end on 02/09/2024.

3. Additional Fees/Charges. The Services shall be subject to the following additional fees/charges:

COMPANY

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

SIGNATURE (AUTHORIZED REPRESENTATIVE)

SIGNATURE (AUTHORIZED REPRESENTATIVE)

NAME AND TITLE (PLEASE PRINT)

NAME AND TITLE (PLEASE PRINT)

DATE:

DATE:

Project Mca

2-20-23

2.21.23

F039 Analysis



21-Mar-2022

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

Re: **F039 - February**

Work Order: **22030174**

Dear Rick,

ALS Environmental received 1 sample on 01-Mar-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,

Julian Johnson

Electronically approved by: Julian Johnson

Julian Johnson

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: F039 - February

Work Order: 22030174

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>
22030174-01	February 2022 F039 Leachate Analysis	Liquid		3/1/2022	3/1/2022 22:30	<input type="checkbox"/>

Client: Republic Industrial and Energy Solutions, LLC
Project: F039 - February
Work Order: 22030174

Case Narrative

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.

Method SVO_8270_W, Sample 22030174-01B: One or more of the surrogates were below the limits due to matrix interference

Subcontracted analytical data has been appended to this report in its entirety.

Client: Republic Industrial and Energy Solutions, LLC
Project: F039 - February
WorkOrder: 22030174

**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
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

Client: Republic Industrial and Energy Solutions, LLC

Project: F039 - February

Work Order: 22030174

Sample ID: February 2022 F039 Leachate Analysis

Lab ID: 22030174-01

Collection Date: 3/1/2022

Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES			SW8081B	Prep: SW3511 3/3/22 11:28		Analyst: SJB
Aldrin	ND		0.060	µg/L	1	3/7/2022 02:35 PM
Surr: Decachlorobiphenyl	67.8		30-162	%REC	1	3/7/2022 02:35 PM
Surr: Tetrachloro-m-xylene	82.7		54-141	%REC	1	3/7/2022 02:35 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8270D	Prep: SW3510 3/3/22 13:27		Analyst: EEW
N-Nitrosodimethylamine	ND		20	µg/L	1	3/3/2022 09:56 PM
Surr: 2,4,6-Tribromophenol	17.1	S	27-83	%REC	1	3/3/2022 09:56 PM
Surr: 2-Fluorobiphenyl	12.8	S	26-79	%REC	1	3/3/2022 09:56 PM
Surr: 2-Fluorophenol	9.22	S	13-56	%REC	1	3/3/2022 09:56 PM
Surr: 4-Terphenyl-d14	15.0	S	43-106	%REC	1	3/3/2022 09:56 PM
Surr: Nitrobenzene-d5	2.66	S	29-80	%REC	1	3/3/2022 09:56 PM
Surr: Phenol-d6	4.94	S	10-35	%REC	1	3/3/2022 09:56 PM

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

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22030174
Project: F039 - February

QC BATCH REPORT

Batch ID: **192546** Instrument ID **GC12** Method: **SW8081B**

MBLK		Sample ID: PBLKW1-192546-192546			Units: µg/L		Analysis Date: 3/7/2022 01:25 PM			
Client ID:		Run ID: GC12_220307B			SeqNo: 8224151		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	ND	0.010								
<i>Surr: Decachlorobiphenyl</i>	0.2093	0	0.208	0	101	30-162	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.26	0	0.208	0	125	54-141	0			

LCS		Sample ID: PLCSW1-192546-192546			Units: µg/L		Analysis Date: 3/7/2022 01:53 PM			
Client ID:		Run ID: GC12_220307B			SeqNo: 8224153		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.2133	0.010	0.167	0	128	46-167	0			
<i>Surr: Decachlorobiphenyl</i>	0.2148	0	0.208	0	103	30-162	0			
<i>Surr: Tetrachloro-m-xylene</i>	0.2318	0	0.208	0	111	54-141	0			

LCSD		Sample ID: PLCSDW1-192546-192546			Units: µg/L		Analysis Date: 3/7/2022 02:07 PM			
Client ID:		Run ID: GC12_220307B			SeqNo: 8224154		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.2105	0.010	0.167	0	126	46-167	0.2133	1.34	20	
<i>Surr: Decachlorobiphenyl</i>	0.2088	0	0.208	0	100	30-162	0.2148	2.83	21	
<i>Surr: Tetrachloro-m-xylene</i>	0.2385	0	0.208	0	115	54-141	0.2318	2.84	20	

The following samples were analyzed in this batch: 22030174-01A

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

Client: Republic Industrial and Energy Solutions, LLC
 Work Order: 22030174
 Project: F039 - February

QC BATCH REPORT

Batch ID: 192558 Instrument ID SVMS9 Method: SW846 8270D

MBLK		Sample ID: SBLKW1-192558-192558			Units: µg/L		Analysis Date: 3/3/2022 08:01 PM			
Client ID:		Run ID: SVMS9_220303A			SeqNo: 8215846		Prep Date: 3/3/2022		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	38.48	0	50	0	77	27-83	0			
Surr: 2-Fluorobiphenyl	35.57	0	50	0	71.1	26-79	0			
Surr: 2-Fluorophenol	26.19	0	50	0	52.4	13-56	0			
Surr: 4-Terphenyl-d14	44.61	0	50	0	89.2	43-106	0			
Surr: Nitrobenzene-d5	36.06	0	50	0	72.1	29-80	0			
Surr: Phenol-d6	16.82	0	50	0	33.6	10-35	0			

LCS		Sample ID: SLCSW1-192558-192558			Units: µg/L		Analysis Date: 3/3/2022 08:24 PM			
Client ID:		Run ID: SVMS9_220303A			SeqNo: 8215847		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	9.26	5.0	20	0	46.3	14-65	0			
Surr: 2,4,6-Tribromophenol	41.1	0	50	0	82.2	27-83	0			
Surr: 2-Fluorobiphenyl	36.16	0	50	0	72.3	26-79	0			
Surr: 2-Fluorophenol	26.19	0	50	0	52.4	13-56	0			
Surr: 4-Terphenyl-d14	40.5	0	50	0	81	43-106	0			
Surr: Nitrobenzene-d5	38.35	0	50	0	76.7	29-80	0			
Surr: Phenol-d6	17.01	0	50	0	34	10-35	0			

MS		Sample ID: 22030011-02A MS			Units: µg/L		Analysis Date: 3/3/2022 08:47 PM			
Client ID:		Run ID: SVMS9_220303A			SeqNo: 8215848		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	180	100	400	0	45	14-65	0			
Surr: 2,4,6-Tribromophenol	816.2	0	1000	0	81.6	27-83	0			
Surr: 2-Fluorobiphenyl	689	0	1000	0	68.9	26-79	0			
Surr: 2-Fluorophenol	500	0	1000	0	50	13-56	0			
Surr: 4-Terphenyl-d14	811.2	0	1000	0	81.1	43-106	0			
Surr: Nitrobenzene-d5	706.6	0	1000	0	70.7	29-80	0			
Surr: Phenol-d6	325.4	0	1000	0	32.5	10-35	0			

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

Client: Republic Industrial and Energy Solutions, LLC
Work Order: 22030174
Project: F039 - February

QC BATCH REPORT

Batch ID: **192558** Instrument ID **SVMS9** Method: **SW846 8270D**

MSD		Sample ID: 22030011-02A MSD			Units: µg/L		Analysis Date: 3/3/2022 09:10 PM			
Client ID:		Run ID: SVMS9_220303A			SeqNo: 8215849		Prep Date: 3/3/2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	188.8	100	400	0	47.2	14-65	180	4.77	30	
<i>Surr: 2,4,6-Tribromophenol</i>	870.8	0	1000	0	87.1	27-83	816.2	6.47	40	S
<i>Surr: 2-Fluorobiphenyl</i>	709.2	0	1000	0	70.9	26-79	689	2.89	40	
<i>Surr: 2-Fluorophenol</i>	516	0	1000	0	51.6	13-56	500	3.15	40	
<i>Surr: 4-Terphenyl-d14</i>	856.6	0	1000	0	85.7	43-106	811.2	5.44	40	
<i>Surr: Nitrobenzene-d5</i>	719.6	0	1000	0	72	29-80	706.6	1.82	40	
<i>Surr: Phenol-d6</i>	346.6	0	1000	0	34.7	10-35	325.4	6.31	40	

The following samples were analyzed in this batch: | 22030174-01B

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

Hazardous Substances Limitations and Reporting

<u>RCRA CODE(S)</u>	<u>NAME</u>	<u>LIMIT (mg/ml)</u>	<u>MINIMUM⁵ MONITORING FREQUENCY</u>	<u>MINIMUM REPORTING FREQUENCY</u>
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: **REPULCINDUSTRIAL - ROMULU**

Date/Time Received: **01-Mar-22 22:30**

Work Order: **22030174**

Received by: **DS**

Checklist completed by **Diane Shaw**

02-Mar-22

Reviewed by: **Julian Johnson**

03-Mar-22

eSignature

Date

eSignature

Date

Matrices: Liquid

Carrier name: Courier

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):

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage:

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:



March 21, 2022

Service Request No:E2200183

Julian Johnson
ALS - Holland
3352 128th Avenue
Holland, MI 49424

Laboratory Results for: 22030174

Dear Julian,

Enclosed are the results of the sample(s) submitted to our laboratory February 10, 2022
For your reference, these analyses have been assigned our service request number **E2200183**.

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-MI
Project: 22030174
Sample Matrix: L

Service Request No.: E2200183
Date Received: 03/04/22

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 03/04/22.

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

Data Validation Notes and Discussion

Precision and Accuracy:

EQ2200089: 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 are within QC limits.

Y flag – Cleanup Standard

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

Y flag – Labeled Standards - Method Blank TCDD/TCDF

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: 22030174

Service Request:E2200183

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
E2200183-001	Feb 2022 F039 Leachate	2/7/2022	0000

Service Request Summary

1 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
 Location: EHRMS-WIC 2B
 Pressure Gas:

Project Chemist: Corey Grandits
 Originating Lab: HOUSTON
 Logged By: CGRANDITS
 Date Received: 02/10/22
 Internal Due Date: 3/25/2022
 QAP: LAB QAP
 Qualifier Set: HRMS Qualifier Set
 Formset: Lab Standard
 Merged?: N
 Report to MDL?: Y
 P.O. Number: 22030174
 EDD: No EDD Specified

Folder #: E2200183
Client Name: ALS Environmental - Holland (MI)
Project Name: 22030174
Project Number:
Report To: Julian Johnson
 ALS - Holland
 3352 128th Avenue
 Holland, MI 49424
 USA
Phone Number:
Cell Number:
Fax Number:
E-mail: julian.johnson@alsglobal.com

Lab Samp No.	Client Samp No	Matrix	Collected
E2200183-001	Feb 2022 F039 Leachate	Aqueous Leachate	02/07/22 0000
Dioxins Furans/1613B			II

HOUSTON

Service Request Summary

Folder #: E2200183
Client Name: ALS Environmental - Holland (MI)
Project Name: 22030174
Project Number:

Report To: Julian Johnson
ALS - Holland
3352 128th Avenue
Holland, MI 49424
USA

Phone Number:
Cell Number:
Fax Number:
E-mail: julian.johnson@alsglobal.com

Project Chemist: Corey Grandits
Originating Lab: HOUSTON
Logged By: CGRANDITS
Date Received: 02/10/22
Internal Due Date: 3/25/2022
GAP: LAB QAP
Qualifier Set: HRMS Qualifier Set
Formset: Lab Standard
Merged?: N
Report to MDL?: Y
P.O. Number: 22030174
EDD: No EDD Specified

1 1000 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved
Location: EHRMS-WIC 2B
Pressure Gas:

Data Qualifiers

HRMS Qualifier Set

- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- H Sample extracted and/or analyzed out of suggested holding time.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-noise 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
Arkansas Department of Environmental Quality	19-028-0	6/30/2022
Arkansas Department of Environmental Quality	21-022-0	3/26/2022
Florida Department of Health	E87611-33	6/30/2022
Hawaii Department of Health	2021-2022	4/30/2022
Kansas Department of Health and Environment	E-10352 2022	7/31/2022
Louisiana Department of Environmental Quality	03087-2021	6/30/2022
Maine Department of Health and Human Services	2020016	6/5/2022
Nevada Department of Conservation and Natural Resources	TX026932022-1	7/31/2022
New Hampshire Environmental Laboratory Accreditation Program	209421	4/24/2022
Pennsylvania Department of Environmental Protection	68-03441-015	6/30/2022
Tennessee Department of Environment and Conservation	04016-2021	4/30/2022
Texas Commission on Environmental Quality	T104704231-21-28	5/1/2022
Texas Commission on Environmental Quality	T104704231-21-27	4/30/2022
United States Department of Agriculture	P330-19-00299	10/10/2022

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

SR# Unique ID E2200183

DB-5MSUI

SPB-Octyl

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

Date:	Analyst:	Samples:
03/17/22	LKL	001

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

Date:	Analyst:	Samples:
03/17/22	VJ	001



Chain of Custody

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

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

CHAIN-OF-CUSTODY RECORD

Date: 03-Mar-22
COC ID: 19032
Due Date: 07-Mar-22

Page 1 of 1

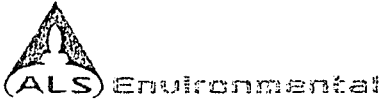
Customer Information		ALS/SHN Account		Project Information	
Purchase Order		Project Name	22030174	Parameter/Method Request for Analysis	
Work Order		Project Number		A Subcontracted Analyses (SUBCONTRACT)	
Company Name	ALS Group U.S.A. Corp	Bill To Company	ALS Group USA, Corp	B	
Send Report To	Julian Johnson	Inv Attn	Accounts Payable	C	
Address	3352 128th Ave	Address	3352 128th Ave	D	
				E	
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	F	
Phone	(616) 399-6070	Phone	(616) 399-6070	G	
Fax	(616) 399-6185	Fax	(616) 399-6185	H	
eMail Address	julian.johnson@alsglobal.com	eMail CC		I	
ALS Sample ID	February 2022 F039	Client Sample ID		J	
22030174-01C	Leachate Analysis	Matrix	Collection Date 24hr	A	
		Liquid	1/Mar/2022	B	
			(1) 1LAMGNEAT	C	
				D	
				E	
				F	
				G	
				H	
				I	
				J	
				X	

*For UIC's
1-2-22
CIFS*

Comments:

3-5-22 (CIFS)
Received by:
Date/Time: 3/14/2022 14:38

Relinquished by: _____ Date/Time: _____
Cooler IDs: _____
Report QC Level: **Std**



Cooler Receipt Form

Project Chemist

Client/Project ALS-M1 Thermometer ID 17211

Date/Time Received: 3-4-22 Initials: PL Date/Time Logged in: 3-4-22 Initials CL

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
 Were they intact? Yes No N/A
 Were they signed and dated? Yes No N/A
 If yes, how many and where?

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

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

Cooler Tracking Number	COC ID	Date Opened	Time Opened	Opened By	Temp. °C	Temp Blank?
4817 7686 8136		3-4-22	1438	PL	1.4/1.4	<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>
						<input type="checkbox"/>

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

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

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

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

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

Notes, Discrepancies, & Resolutions:

Service request Label:



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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
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Phone (713)266-1599 Fax (713)266-0130
www.alsglobal.com

Preparation Information Benchsheet

Prep Run#: 396308
 Team: Semivoa GCMS/SHIVANI NAIDU

Prep WorkFlow: OrgExtAq(365)
 Prep Method: Method Sep Fumme/Iar

Status: Prepped
 Prep Date/Time: 3/8/22 10:00

#	Lab Code	Client ID	B#	Method /Test	pH	CI	Matrix	Amt. Ext.	Sample Description
1	E2200164-001	3229140-002	.01	1613B/Dioxins Furans	7	n	Wastewater	1059mL	clear
2	E2200183-001	Feb 2022 F039 Leachate	.01	1613B/Dioxins Furans	7	n	Aqueous Leachate	213mL	greenish brown murky
3	E2200184-001	2022-02-08-J	.01	1613B/Dioxins Furans	7	n	Water	992mL	yellow cloudy
4	E2200184-002	2022-02-08-L	.01	1613B/Dioxins Furans	7	n	Water	992mL	yellow cloudy
5	EQ2200089-01	MB		1613B/Dioxins Furans	7	n	Liquid	1000mL	
6	EQ2200089-02	LCS		1613B/Dioxins Furans	7	n	Liquid	1000mL	
7	EQ2200089-03	D LCS		1613B/Dioxins Furans	7	n	Liquid	1000mL	
8	K2201909-001	CAR_5Q1043	.11	1613B/Dioxins Furans	7	n	Ocean Water	1071mL	clear
9	K2201909-002	CAR_5Q1048	.11	1613B/Dioxins Furans	7	n	Ocean Water	1069mL	clear
10	K2201909-003	CAR_5Q1053	.11	1613B/Dioxins Furans	7	n	Ocean Water	1067mL	clear
11	K2201909-004	CAR_5Q1059	.12	1613B/Dioxins Furans	7	n	Ocean Water	1084mL	clear
12	K2201909-005	CAR_5Q1064	.12	1613B/Dioxins Furans	7	n	Ocean Water	1076mL	clear
13	K2201909-006	CAR_5Q1069	.11	1613B/Dioxins Furans	7	n	Ocean Water	1077mL	clear
14	K2201909-007	CAR_5Q1075	.11	1613B/Dioxins Furans	7	n	Ocean Water	970mL	clear
15	K2201909-008	CAR_5Q1080	.11	1613B/Dioxins Furans	7	n	Ocean Water	1076mL	clear
16	K2201909-009	CAR_5Q1080FD7	.11	1613B/Dioxins Furans	7	n	Ocean Water	1063mL	clear
17	K2201909-010	CAR_5Q1085	.11	1613B/Dioxins Furans	7	n	Ocean Water	1088mL	clear
18	K2201909-011	CAR_5Q1107	.11	1613B/Dioxins Furans	7	n	Ocean Water	1007mL	clear
19	K2201909-012	CAR_5Q1107FD10	.11	1613B/Dioxins Furans	7	n	Ocean Water	1058mL	clear
20	K2201909-013	CAR_5Q1112	.11	1613B/Dioxins Furans	7	n	Ocean Water	997mL	clear
21	K2201909-014	CAR_5Q1117	.11	1613B/Dioxins Furans	7	n	Ocean Water	1077mL	clear
22	K2201909-015	CAR_5Q1150BB19	.11	1613B/Dioxins Furans	7	n	Water	1062mL	clear

Spiking Solutions

Name:	1613B Matrix Working Standard	Inventory ID	221685	Logbook Ref:	SN 2/16/22	Expires On:	08/15/2022
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EQ2200089-02	100.00µL	EQ2200089-03	100.00µL
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Name:	8290/1613B Cleanup Working Standard	Inventory ID	221742	Logbook Ref:	tw 221742 2/22/22	Expires On:	08/04/2022
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E2200164-001	100.00µL	E2200183-001	100.00µL	E2200184-001	100.00µL	EQ2200089-01	100.00µL	EQ2200089-02	100.00µL
EQ2200089-03	100.00µL	K2201909-001	100.00µL	K2201909-002	100.00µL	K2201909-003	100.00µL	K2201909-004	100.00µL
K2201909-006	100.00µL	K2201909-007	100.00µL	K2201909-008	100.00µL	K2201909-009	100.00µL	K2201909-010	100.00µL
K2201909-012	100.00µL	K2201909-013	100.00µL	K2201909-014	100.00µL	K2201909-015	100.00µL		

Preparation Information Benchsheet

Prep Run#: 396308
Team: Semivoa GCMS/SHIVANI NAIDU

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

Status: Prepped
Prep Date/Time: 3/8/22 10:00

Name:	1613B Labeled Working Standard	Inventory ID	222029	Logbook Ref:	SN 3/8/2022	Expires On:	06/18/2022
E2200164-001	1,000.00µL	E2200184-001	1,000.00µL	E2200184-002	1,000.00µL	EQ2200089-02	1,000.00µL
EQ2200089-03	1,000.00µL	K2201909-002	1,000.00µL	K2201909-003	1,000.00µL	K2201909-005	1,000.00µL
K2201909-006	1,000.00µL	K2201909-008	1,000.00µL	K2201909-009	1,000.00µL	K2201909-011	1,000.00µL
K2201909-012	1,000.00µL	K2201909-014	1,000.00µL	K2201909-015	1,000.00µL		
Preparation Materials							
Carbon, High Purity	Carbon 11/24/21 (220614)	Ethyl Acetate 99.9% Minimum	SN 12/16/21 (220923)	Glass Wool	tw 7/8/21 glass wool (218851)		
Hexanes 95%	SN 12/22/21 (220994)	Chlorine Test Strips	chlorine test strips (206954)	Dichloromethane (Methylene Chloride) 99.9% MeCl2	dem 12/20/21 (221123)		
Sodium Hydroxide 1N NaOH	tw 08/10/21 (218694)	Tridecane (n-Tridecane)	tridecane (218692)	ColompHast pH-Indicator Strips	pH strips tw 21020 (206953)		
Silica Gel	tw 9/7/21 (220322)	sulfuric acid	8/12/21 tw (218912)	Toluene 99.9% Minimum	SN 12/23/21 (221021)		
Sodium Sulfate Anhydrous Reagent Grade Na2SO4	tw 04/12/21 (217292)						
Preparation Steps							
Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean	Step:	Final Volume
Started:	3/8/22 10:00	Started:	3/10/22 10:00	Started:	3/10/22 12:00	Started:	3/10/22 15:00
Finished:	3/8/22 16:00	Finished:	3/10/22 11:00	Finished:	3/10/22 15:00	Finished:	3/10/22 18:00
By:	SHIVANI NAIDU	By:	SHIVANI NAIDU	By:	SHIVANI NAIDU	By:	SHIVANI NAIDU
Comments:		Comments:		Comments:		Comments:	
Comments:							
Reviewed By: <u>SN</u> Date: <u>3/14/2022</u>							
Chain of Custody							
Relinquished By:		Date:		Extractions Examined:	Yes	No	
Received By:		Date:					



Analytical Results

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston, TX 77099
Phone (713)266-1599 Fax (713)266-0130
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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: 02/07/22 00:00
Date Received: 02/10/22 10:00

Sample Name: Feb 2022 F039 Leachate
Lab Code: E2200183-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 213mL

Date Analyzed: 03/17/22 08:33
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629242
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629231

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	7.51JK		4.48	23.5	0.37	1.001	1
1,2,3,7,8-PeCDD	14.7BJ		1.76	117	1.39	1.000	1
1,2,3,4,7,8-HxCDD	9.54BJK		0.639	117	0.98	1.000	1
1,2,3,6,7,8-HxCDD	12.6BJK		0.681	117	1.65	1.000	1
1,2,3,7,8,9-HxCDD	7.32BJK		0.634	117	0.80	1.006	1
1,2,3,4,6,7,8-HpCDD	89.9JK		4.25	117	0.78	1.000	1
OCDD	618		5.68	235	0.92	1.000	1
2,3,7,8-TCDF	21.1JK		2.51	23.5	0.44	1.001	1
1,2,3,7,8-PeCDF	261		8.62	117	1.58	1.001	1
2,3,4,7,8-PeCDF	167		8.38	117	1.56	1.000	1
1,2,3,4,7,8-HxCDF	2530		5.67	117	1.20	1.000	1
1,2,3,6,7,8-HxCDF	882		6.32	117	1.20	1.000	1
1,2,3,7,8,9-HxCDF	51.2JK		7.37	117	0.93	1.001	1
2,3,4,6,7,8-HxCDF	219		6.31	117	1.35	1.000	1
1,2,3,4,6,7,8-HpCDF	19700		23.4	117	1.00	1.000	1
1,2,3,4,7,8,9-HpCDF	340		22.0	117	1.08	1.000	1
OCDF	26500		5.69	235	0.86	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: 02/07/22 00:00
Date Received: 02/10/22 10:00

Sample Name: Feb 2022 F039 Leachate
Lab Code: E2200183-001

Units: pg/L
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 213mL

Date Analyzed: 03/17/22 08:33
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629242
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629231

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	29.1		4.48	23.5	0.86		1
Total Penta-Dioxins	58.2J		1.76	117	1.61		1
Total Hexa-Dioxins	66.5J		0.648	117	1.09		1
Total Hepta-Dioxins	155		4.25	117	0.93		1
Total Tetra-Furans	1110		2.51	23.5	0.80		1
Total Penta-Furans	2910		2.94	117	1.56		1
Total Hexa-Furans	7480		6.38	117	1.23		1
Total Hepta-Furans	21200		22.8	117	1.00		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: 02/07/22 00:00
Date Received: 02/10/22 10:00

Sample Name: Feb 2022 F039 Leachate
Lab Code: E2200183-001

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
Prep Method: Method Sep Funnel/Jar
Sample Amount: 213mL

Date Analyzed: 03/17/22 08:33
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629242
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629231

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	786.244	39		25-164	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	772.343	39		25-181	1.54	1.175
13C-1,2,3,4,7,8-HxCDD	2000	890.268	45		32-141	1.26	0.992
13C-1,2,3,6,7,8-HxCDD	2000	849.993	42		28-130	1.24	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	590.059	30		23-140	1.05	1.066
13C-OCDD	4000	815.366	20		17-157	0.90	1.141
13C-2,3,7,8-TCDF	2000	766.371	38		24-169	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	768.993	38		24-185	1.56	1.135
13C-2,3,4,7,8-PeCDF	2000	765.830	38		21-178	1.56	1.166
13C-1,2,3,4,7,8-HxCDF	2000	814.564	41		26-152	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	706.368	35		26-123	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	716.627	36		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	755.842	38		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	612.163	31		28-143	0.45	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	621.003	31		26-138	0.43	1.080
37Cl-2,3,7,8-TCDD	800	471.187	59		35-197	NA	1.020

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: 02/07/22 00:00
Date Received: 02/10/22 10:00

Sample Name: Feb 2022 F039 Leachate
Lab Code: E2200183-001

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	7.51	4.48	23.5	1	1	7.51
1,2,3,7,8-PeCDD	14.7	1.76	117	1	1	14.7
1,2,3,4,7,8-HxCDD	9.54	0.639	117	1	0.1	0.954
1,2,3,6,7,8-HxCDD	12.6	0.681	117	1	0.1	1.26
1,2,3,7,8,9-HxCDD	7.32	0.634	117	1	0.1	0.732
1,2,3,4,6,7,8-HpCDD	89.9	4.25	117	1	0.01	0.899
OCDD	618	5.68	235	1	0.0003	0.185
2,3,7,8-TCDF	21.1	2.51	23.5	1	0.1	2.11
1,2,3,7,8-PeCDF	261	8.62	117	1	0.03	7.83
2,3,4,7,8-PeCDF	167	8.38	117	1	0.3	50.1
1,2,3,4,7,8-HxCDF	2530	5.67	117	1	0.1	253
1,2,3,6,7,8-HxCDF	882	6.32	117	1	0.1	88.2
1,2,3,7,8,9-HxCDF	51.2	7.37	117	1	0.1	5.12
2,3,4,6,7,8-HxCDF	219	6.31	117	1	0.1	21.9
1,2,3,4,6,7,8-HpCDF	19700	23.4	117	1	0.01	197
1,2,3,4,7,8,9-HpCDF	340	22.0	117	1	0.01	3.40
OCDF	26500	5.69	235	1	0.0003	7.95
Total TEQ						663

2005 WHO TEFs, ND = 0

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200089-01

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: 03/17/22 23:25
Date Extracted: 3/8/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI

Data File Name: P536968
ICAL Date: 01/18/22

Blank File Name: P536968
Cal Ver. File Name: P536965

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	U	1.92	5.00			1
1,2,3,7,8-PeCDD	1.54JK		1.19	25.0	2.49	1.000	1
1,2,3,4,7,8-HxCDD	1.68J		0.374	25.0	1.05	1.000	1
1,2,3,6,7,8-HxCDD	1.41JK		0.400	25.0	1.97	1.000	1
1,2,3,7,8,9-HxCDD	1.61JK		0.387	25.0	1.81	1.007	1
1,2,3,4,6,7,8-HpCDD	3.38J		0.103	25.0	1.00	1.000	1
OCDD	7.20JK		2.18	50.0	0.69	1.000	1
2,3,7,8-TCDF	ND	U	1.77	5.00			1
1,2,3,7,8-PeCDF	ND	U	1.12	25.0			1
2,3,4,7,8-PeCDF	ND	U	0.973	25.0			1
1,2,3,4,7,8-HxCDF	0.993JK		0.228	25.0	0.95	1.000	1
1,2,3,6,7,8-HxCDF	0.879J		0.255	25.0	1.05	1.000	1
1,2,3,7,8,9-HxCDF	1.89JK		0.269	25.0	0.88	1.001	1
2,3,4,6,7,8-HxCDF	0.663JK		0.214	25.0	1.89	1.001	1
1,2,3,4,6,7,8-HpCDF	1.71J		0.0580	25.0	0.95	1.000	1
1,2,3,4,7,8,9-HpCDF	1.94JK		0.0800	25.0	1.59	1.000	1
OCDF	3.88JK		0.863	50.0	0.61	1.006	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate
Sample Name: Method Blank
Lab Code: EQ2200089-01

Service Request: E2200183
Date Collected: NA
Date Received: NA
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
Data File Name: P536968
ICAL Date: 01/18/22

Date Analyzed: 03/17/22 23:25
Date Extracted: 3/8/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI
Blank File Name: P536968
Cal Ver. File Name: P536965

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	ND	U	1.92	5.00			1
Total Penta-Dioxins	ND	U	1.19	25.0			1
Total Hexa-Dioxins	ND	U	0.386	25.0			1
Total Hepta-Dioxins	3.51J		0.103	25.0	1.09		1
Total Tetra-Furans	ND	U	1.77	5.00			1
Total Penta-Furans	ND	U	1.04	25.0			1
Total Hexa-Furans	ND	U	0.240	25.0			1
Total Hepta-Furans	1.89J		0.0680	25.0	0.95		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: EQ2200089-01

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: 03/17/22 23:25
Date Extracted: 3/8/22
Instrument Name: E-HRMS-07
GC Column: DB-5MSUI

Data File Name: P536968
ICAL Date: 01/18/22

Blank File Name: P536968
Cal Ver. File Name: P536965

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	348.007	17	Y	25-164	0.77	1.019
13C-1,2,3,7,8-PeCDD	2000	517.854	26		25-181	1.63	1.169
13C-1,2,3,4,7,8-HxCDD	2000	750.803	38		32-141	1.34	0.992
13C-1,2,3,6,7,8-HxCDD	2000	666.895	33		28-130	1.30	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	627.147	31		23-140	1.06	1.065
13C-OCDD	4000	978.869	24		17-157	0.90	1.141
13C-2,3,7,8-TCDF	2000	364.972	18	Y	24-169	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	494.311	25		24-185	1.59	1.130
13C-2,3,4,7,8-PeCDF	2000	560.111	28		21-178	1.60	1.160
13C-1,2,3,4,7,8-HxCDF	2000	685.202	34		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	574.401	29		26-123	0.51	0.975
13C-1,2,3,7,8,9-HxCDF	2000	696.591	35		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	749.037	37		28-136	0.52	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	613.734	31		28-143	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	592.956	30		26-138	0.42	1.079
37Cl-2,3,7,8-TCDD	800	170.994	21	Y	35-197	NA	1.019



Accuracy & Precision

ALS Environmental - Houston HRMS
10450 Stancliff Rd., Suite 210, Houston TX 77099
Phone (713)266-1599 Fax (713)266-0130
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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Analyzed: 03/16/22
Date Extracted: 03/08/22

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: 757914

Lab Control Sample
EQ2200089-02

Duplicate Lab Control Sample
EQ2200089-03

Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	923	1000	92	930	1000	93	70-140	<1	50
1,2,3,4,7,8-HxCDD	798	1000	80	802	1000	80	70-164	<1	50
1,2,3,6,7,8-HxCDD	854	1000	85	852	1000	85	76-134	<1	50
1,2,3,7,8,9-HxCDD	826	1000	83	855	1000	85	64-162	3	50
1,2,3,7,8-PeCDD	903	1000	90	914	1000	91	70-142	1	50
2,3,7,8-TCDD	152	200	76	157	200	78	67-158	3	50
OCDD	1810	2000	90	1810	2000	90	78-144	<1	50
1,2,3,4,6,7,8-HpCDF	948	1000	95	958	1000	96	82-122	1	50
1,2,3,4,7,8,9-HpCDF	936	1000	94	936	1000	94	78-138	<1	50
1,2,3,4,7,8-HxCDF	849	1000	85	853	1000	85	72-134	<1	50
1,2,3,6,7,8-HxCDF	927	1000	93	946	1000	95	84-130	2	50
1,2,3,7,8,9-HxCDF	903	1000	90	909	1000	91	78-130	<1	50
1,2,3,7,8-PeCDF	874	1000	87	896	1000	90	80-134	2	50
2,3,4,6,7,8-HxCDF	846	1000	85	864	1000	86	70-156	2	50
2,3,4,7,8-PeCDF	871	1000	87	905	1000	91	68-160	4	50
2,3,7,8-TCDF	155	200	78	158	200	79	75-158	1	50
OCDF	1930	2000	96	1940	2000	97	63-170	<1	50

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200089-02

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: 03/16/22 20:39
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629228
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629218

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	152		1.44	5.00	0.77	1.000	1
1,2,3,7,8-PeCDD	903		0.340	25.0	1.57	1.000	1
1,2,3,4,7,8-HxCDD	798		0.162	25.0	1.24	1.000	1
1,2,3,6,7,8-HxCDD	854		0.176	25.0	1.26	1.000	1
1,2,3,7,8,9-HxCDD	826		0.162	25.0	1.21	1.007	1
1,2,3,4,6,7,8-HpCDD	923		0.565	25.0	1.05	1.000	1
OCDD	1810		3.86	50.0	0.88	1.000	1
2,3,7,8-TCDF	155		0.638	5.00	0.73	1.001	1
1,2,3,7,8-PeCDF	874		0.774	25.0	1.57	1.001	1
2,3,4,7,8-PeCDF	871		0.660	25.0	1.59	1.000	1
1,2,3,4,7,8-HxCDF	849		0.482	25.0	1.25	1.000	1
1,2,3,6,7,8-HxCDF	927		0.520	25.0	1.22	1.000	1
1,2,3,7,8,9-HxCDF	903		0.564	25.0	1.27	1.000	1
2,3,4,6,7,8-HxCDF	846		0.457	25.0	1.23	1.000	1
1,2,3,4,6,7,8-HpCDF	948		1.10	25.0	1.01	1.000	1
1,2,3,4,7,8,9-HpCDF	936		1.29	25.0	1.00	1.000	1
OCDF	1930		1.22	50.0	0.88	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200089-02

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: 03/16/22 20:39
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629228
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629218

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	152		1.44	5.00	0.77		1
Total Penta-Dioxins	903		0.340	25.0	1.57		1
Total Hexa-Dioxins	2480		0.167	25.0	1.24		1
Total Hepta-Dioxins	923		0.565	25.0	1.05		1
Total Tetra-Furans	155		0.638	5.00	0.73		1
Total Penta-Furans	1750		0.714	25.0	1.69		1
Total Hexa-Furans	3520		0.504	25.0	1.25		1
Total Hepta-Furans	1880		1.19	25.0	1.01		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Lab Control Sample
Lab Code: EQ2200089-02

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: 03/16/22 20:39
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629228
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629218

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	744.814	37		25-164	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	889.210	44		25-181	1.55	1.175
13C-1,2,3,4,7,8-HxCDD	2000	1094.203	55		32-141	1.24	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1007.537	50		28-130	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	820.081	41		23-140	1.05	1.066
13C-OCDD	4000	1337.120	33		17-157	0.89	1.141
13C-2,3,7,8-TCDF	2000	751.540	38		24-169	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	800.828	40		24-185	1.57	1.134
13C-2,3,4,7,8-PeCDF	2000	900.057	45		21-178	1.59	1.165
13C-1,2,3,4,7,8-HxCDF	2000	932.627	47		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	815.900	41		26-123	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	927.900	46		29-147	0.52	1.008
13C-2,3,4,6,7,8-HxCDF	2000	977.844	49		28-136	0.53	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	771.080	39		28-143	0.44	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	882.986	44		26-138	0.43	1.079
37Cl-2,3,7,8-TCDD	800	381.268	48		35-197	NA	1.020

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200089-03

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: 03/16/22 21:29
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629229
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629218

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	157		1.64	5.00	0.77	1.000	1
1,2,3,7,8-PeCDD	914		0.499	25.0	1.59	1.000	1
1,2,3,4,7,8-HxCDD	802		0.191	25.0	1.23	1.000	1
1,2,3,6,7,8-HxCDD	852		0.211	25.0	1.26	1.000	1
1,2,3,7,8,9-HxCDD	855		0.193	25.0	1.24	1.007	1
1,2,3,4,6,7,8-HpCDD	930		0.647	25.0	1.04	1.000	1
OCDD	1810		0.569	50.0	0.89	1.000	1
2,3,7,8-TCDF	158		0.662	5.00	0.80	1.001	1
1,2,3,7,8-PeCDF	896		0.680	25.0	1.54	1.001	1
2,3,4,7,8-PeCDF	905		0.586	25.0	1.56	1.000	1
1,2,3,4,7,8-HxCDF	853		0.406	25.0	1.23	1.000	1
1,2,3,6,7,8-HxCDF	946		0.444	25.0	1.23	1.000	1
1,2,3,7,8,9-HxCDF	909		0.466	25.0	1.24	1.000	1
2,3,4,6,7,8-HxCDF	864		0.401	25.0	1.28	1.000	1
1,2,3,4,6,7,8-HpCDF	958		1.30	25.0	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	936		1.49	25.0	1.00	1.000	1
OCDF	1940		0.980	50.0	0.89	1.005	1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate
Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200089-03

Service Request: E2200183
Date Collected: NA
Date Received: NA
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
Data File Name: P629229
ICAL Date: 03/15/22

Date Analyzed: 03/16/22 21:29
Date Extracted: 3/8/22
Instrument Name: E-HRMS-08
GC Column: DB-5MSUI
Blank File Name: P536968
Cal Ver. File Name: P629218

Native Analyte Results

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	157		1.64	5.00	0.77		1
Total Penta-Dioxins	914		0.499	25.0	1.59		1
Total Hexa-Dioxins	2510		0.198	25.0	1.23		1
Total Hepta-Dioxins	930		0.647	25.0	1.04		1
Total Tetra-Furans	158		0.662	5.00	0.80		1
Total Penta-Furans	1810		0.631	25.0	1.54		1
Total Hexa-Furans	3570		0.428	25.0	1.23		1
Total Hepta-Furans	1890		1.39	25.0	1.02		1

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: ALS Environmental - Holland (MI)
Project: 22030174
Sample Matrix: Aqueous Leachate

Service Request: E2200183
Date Collected: NA
Date Received: NA

Sample Name: Duplicate Lab Control Sample
Lab Code: EQ2200089-03

Units: Percent
Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 1613B
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Instrument Name: E-HRMS-08
GC Column: DB-5MSUI

Data File Name: P629229
ICAL Date: 03/15/22

Blank File Name: P536968
Cal Ver. File Name: P629218

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	672.128	34		25-164	0.77	1.020
13C-1,2,3,7,8-PeCDD	2000	844.095	42		25-181	1.58	1.175
13C-1,2,3,4,7,8-HxCDD	2000	1057.018	53		32-141	1.26	0.992
13C-1,2,3,6,7,8-HxCDD	2000	965.683	48		28-130	1.25	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	833.406	42		23-140	1.05	1.066
13C-OCDD	4000	1357.503	34		17-157	0.89	1.141
13C-2,3,7,8-TCDF	2000	662.821	33		24-169	0.78	0.994
13C-1,2,3,7,8-PeCDF	2000	757.782	38		24-185	1.56	1.134
13C-2,3,4,7,8-PeCDF	2000	842.931	42		21-178	1.56	1.165
13C-1,2,3,4,7,8-HxCDF	2000	887.730	44		26-152	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	778.922	39		26-123	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	911.791	46		29-147	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	935.608	47		28-136	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	781.135	39		28-143	0.44	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	893.888	45		26-138	0.44	1.079
37Cl-2,3,7,8-TCDD	800	342.983	43		35-197	NA	1.020