Environmental GEO-Technologies, LLC

May 31, 2018

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

Re: EGT Monthly Report (in conformance with MI-163-1W-C010 & MI-163-1W-C011)

Dear Mr. Batka:

Environmental Geo-Technologies, LLC ("EGT") hereby timely submits its fifty-fourth Monthly Report ("MR") in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

EGT is providing all of 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.

EGT did not accept any F039 waste in April, 2018 so no Page A-3 of 3 laboratory analyses are necessary to be submitted as part of this MR.

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 inquiry of the person or persons who manage the system, or those persons directly responsible for gathering 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 interim report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,

Richard J. Powals, P.E.
Vice-President

cc: J. Frost (EGT), T. Athans (EGT), P. Sullivan (EGT)

att. rjp053118/EGTEPAMonthlyReport-April, 2018

P 734-946-1000 F 734-946-1002 - 28470 Citrin Drive. Romulus, Michigan 48174
www.envgeotech.com

WELL 2 DATA

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differentail Pressure (PSIG)	Max Differential Pressure (PSIG)
4/1/2018	0.0	0.0	16.1	16.3	292.7	295.1	0.3	0.3	0.0	0.0	292.7	295.1
4/2/2018	0.0	0.0	16.1	16.3	291.6	293.3	0.3	0.3	0.0	0.0	291.6	293.3
4/3/2018	0.0	0.0	16.1	16.4	291.1	292.4	0.3	0.3	0.0	0.0	291.1	292.4
4/4/2018	0.0	0.0	16.1	16.5	289.4	291.8	0.3	0.3	0.0	0.0	289.4	291.8
4/5/2018	0.0	0.0	16.1	16.4	288.9	290.2	0.2	0.2	0.0	0.0	288.9	290.2
4/6/2018	0.0	0.0	16.1	16.3	287.5	289.7	0.2	0.2	0.0	0.0	287.5	289.7
4/7/2018	0.0	0.0	16.1	16.3	286.0	288.1	0.2	0.2	0.0	0.0	286.0	288.1
4/8/2018	0.0	0.0	16.0	16.3	285.0	286.7	0.2	0.2	0.0	0.0	285.0	286.7
4/9/2018	0.0	0.0	15.7	16.6	284.0	285.8	0.2	0.2	0.0	0.0	284.0	285.8
4/10/2018	0.0	0.0	15.8	16.7	283.6	284.8	0.2	0.2	0.0	0.0	283.6	284.8
4/11/2018	0.0	0.0	16.1	16.4	283.0	284.3	7.8	8.9	0.0	0.0	283.0	284.3
4/12/2018	0.0	0.0	16.0	16.8	282.7	284.2	12.8	13.0	0.0	0.0	282.7	284.2
4/13/2018	0.0	0.0	15.9	16.7	281.5	283.6	12.7	13.0	0.0	0.0	281.5	283.6
4/14/2018	0.0	0.0	16.1	16.3	279.2	282.3	12.7	12.7	0.0	0.0	279.2	282.3
4/15/2018	0.0	0.0	16.1	16.2	278.3	279.8	12.7	12.7	0.0	0.0	278.3	279.8
4/16/2018	0.0	0.0	-12.5	-12.5	278.4	278.4	12.7	12.7	0.0	0.0	278.4	278.4
4/17/2018	0.0	0.0	-12.5	23.3	275.1	278.4	12.7	12.7	0.0	0.0	275.1	278.4
4/18/2018	0.0	0.0	22.9	23.3	274.6	276.1	12.8	12.8	0.0	0.0	274.6	276.1
4/19/2018	0.0	0.0	22.9	23.3	274.5	276.1	0.5	12.8	0.0	0.0	274.5	276.1
4/20/2018	0.0	0.0	22.8	23.5	273.9	275.7	0.5	1.0	0.0	0.0	273.9	275.7
4/21/2018	0.0	0.0	23.1	23.2	272.8	274.8	1.0	1.0	0.0	0.0	272.8	274.8
4/22/2018	0.0	0.0	22.9	23.5	271.7	273.8	1.0	1.0	0.0	0.0	271.7	273.8
4/23/2018	0.0	0.0	22.9	23.6	271.4	273.9	1.0	1.0	0.0	0.0	271.4	273.9
4/24/2018	0.0	0.0	23.2	23.4	270.4	272.1	1.0	1.6	5.7	0.0	270.4	272.1
4/25/2018	0.0	0.0	23.1	23.3	268.2	271.1	0.3	1.6	0.0	0.0	269.3	271.1
4/26/2018	0.0	0.0	22.8	23.6	268.2	270.0	0.3	0.3	0.0	0.0	268.2	270.0
4/27/2018	0.0	0.0	22.9	23.6	267.6	269.3	0.3	0.3	0.0	0.0	267.6	269.3
4/28/2018	0.0	0.0	22.8	23.4	266.3	268.3	0.3	7.0	8.4	0.0	266.3	268.3
4/29/2018	0.0	0.0	22.9	23.4	265.4	267.2	7.0	7.0	2.1	1.0	265.4	267.2
4/30/2018	0.0	0.0	22.9	23.6	265.2	266.8	7.0	7.0	0.0	2.0	265.2	266.8
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Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differentail Pressure (PSIG)	Max Differential Pressure (PSIG)
4/1/2018	0.0	0.0	16.1	16.3	292.7	295.1	0.3	0.3	0.0	0.0	292.7	295.1
4/2/2018	0.0	0.0	16.1	16.3	291.6	293.3	0.3	0.3	0.0	0.0	291.6	293.3
4/3/2018	0.0	0.0	16.1	16.4	291.1	292.4	0.3	0.3	0.0	0.0	291.1	292.4
4/4/2018	0.0	0.0	16.1	16.5	289.4	291.8	0.3	0.3	0.0	0.0	289.4	291.8
4/5/2018	0.0	0.0	16.1	16.4	288.9	290.2	0.2	0.2	0.0	0.0	288.9	290.2
4/6/2018	0.0	0.0	16.1	16.3	287.5	289.7	0.2	0.2	0.0	0.0	287.5	289.7
4/7/2018	0.0	0.0	16.1	16.3	286.0	288.1	0.2	0.2	0.0	0.0	286.0	288.1
4/8/2018	0.0	0.0	16.0	16.3	285.0	286.7	0.2	0.2	0.0	0.0	285.0	286.7
4/9/2018	0.0	0.0	15.7	16.6	284.0	285.8	0.2	0.2	0.0	0.0	284.0	285.8
4/10/2018	0.0	0.0	15.8	16.7	283.6	284.8	0.2	0.2	0.0	0.0	283.6	284.8
4/11/2018	0.0	0.0	16.1	16.4	283.0	284.3	7.8	8.9	0.0	0.0	283.0	284.3
4/12/2018	0.0	0.0	16.0	16.8	282.7	284.2	12.8	13.0	0.0	0.0	282.7	284.2
4/13/2018	0.0	0.0	15.9	16.7	281.5	283.6	12.7	13.0	0.0	0.0	281.5	283.6
4/14/2018	0.0	0.0	16.1	16.3	279.2	282.3	12.7	12.7	0.0	0.0	279.2	282.3
4/15/2018	0.0	0.0	16.1	16.2	278.3	279.8	12.7	12.7	0.0	0.0	278.3	279.8
4/16/2018	0.0	0.0	-12.5	-12.5	278.4	278.4	12.7	12.7	0.0	0.0	278.4	278.4
4/17/2018	0.0	0.0	-12.5	23.3	275.1	278.4	12.7	12.7	0.0	0.0	275.1	278.4
4/18/2018	0.0	0.0	22.9	23.3	274.6	276.1	12.8	12.8	0.0	0.0	274.6	276.1
4/19/2018	0.0	0.0	22.9	23.3	274.5	276.1	0.5	12.8	0.0	0.0	274.5	276.1
4/20/2018	0.0	0.0	22.8	23.5	273.9	275.7	0.5	1.0	0.0	0.0	273.9	275.7
4/21/2018	0.0	0.0	23.1	23.2	272.8	274.8	1.0	1.0	0.0	0.0	272.8	274.8
4/22/2018	0.0	0.0	22.9	23.5	271.7	273.8	1.0	1.0	0.0	0.0	271.7	273.8
4/23/2018	0.0	0.0	22.9	23.6	271.4	273.9	1.0	1.0	0.0	0.0	271.4	273.9
4/24/2018	0.0	0.0	23.2	23.4	270.4	272.1	1.0	1.6	0.0	0.0	270.4	272.1
4/25/2018	0.0	0.0	23.1	23.3	268.2	271.1	0.3	1.6	0.0	0.0	269.3	271.1
4/26/2018	0.0	0.0	22.8	23.6	268.2	270.0	0.3	0.3	0.0	0.0	268.2	270.0
4/27/2018	0.0	0.0	22.9	23.6	267.6	269.3	0.3	0.3	0.0	0.0	267.6	269.3
4/28/2018	0.0	0.0	22.8	23.4	266.3	268.3	0.3	7.0	0.0	0.0	266.3	268.3
4/29/2018	0.0	0.0	22.9	23.4	265.4	267.2	7.0	7.0	0.0	0.0	265.4	267.2
4/30/2018	0.0	0.0	22.9	23.6	265.2	266.8	7.0	7.0	0.0	0.0	265.2	266.8
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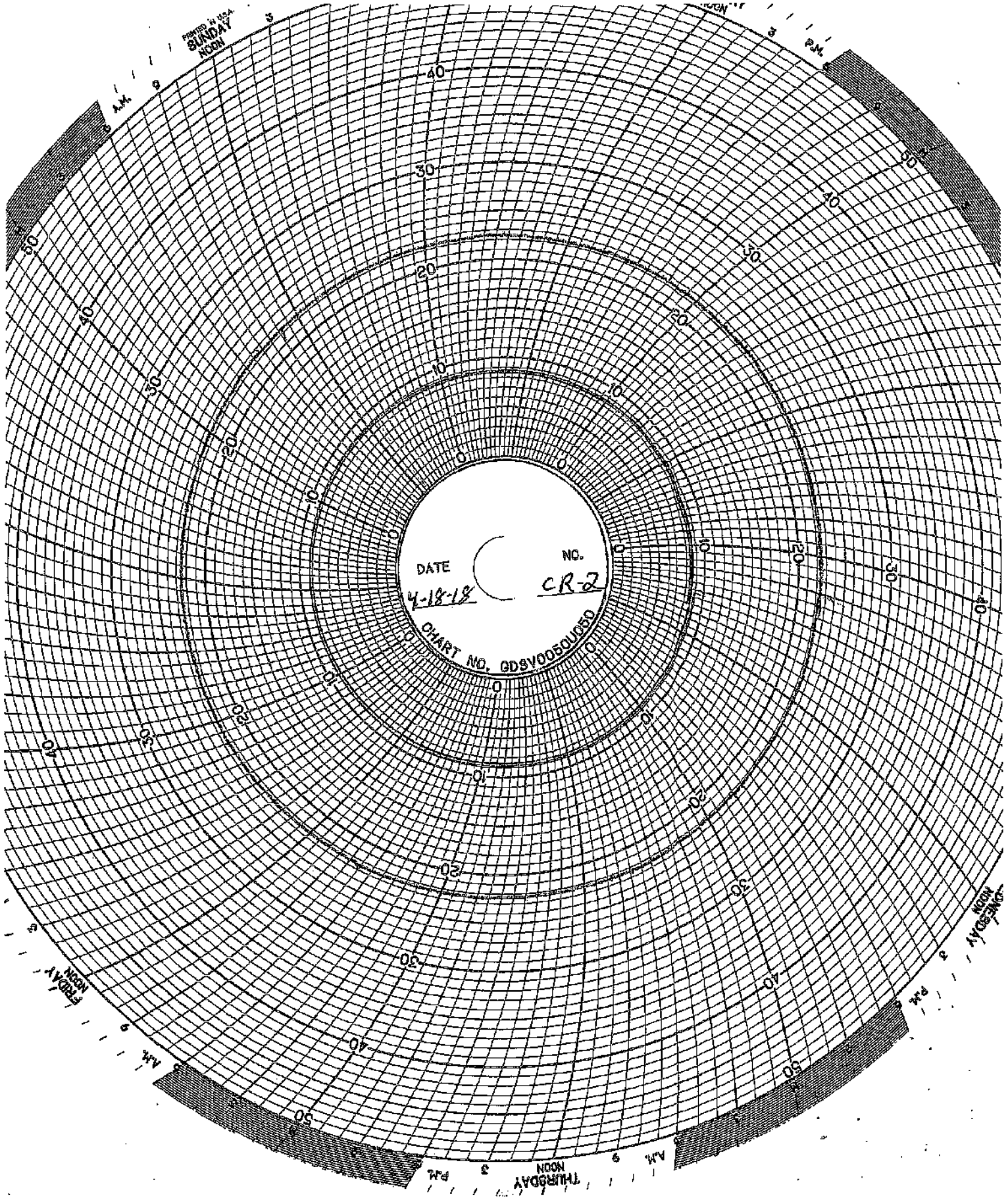
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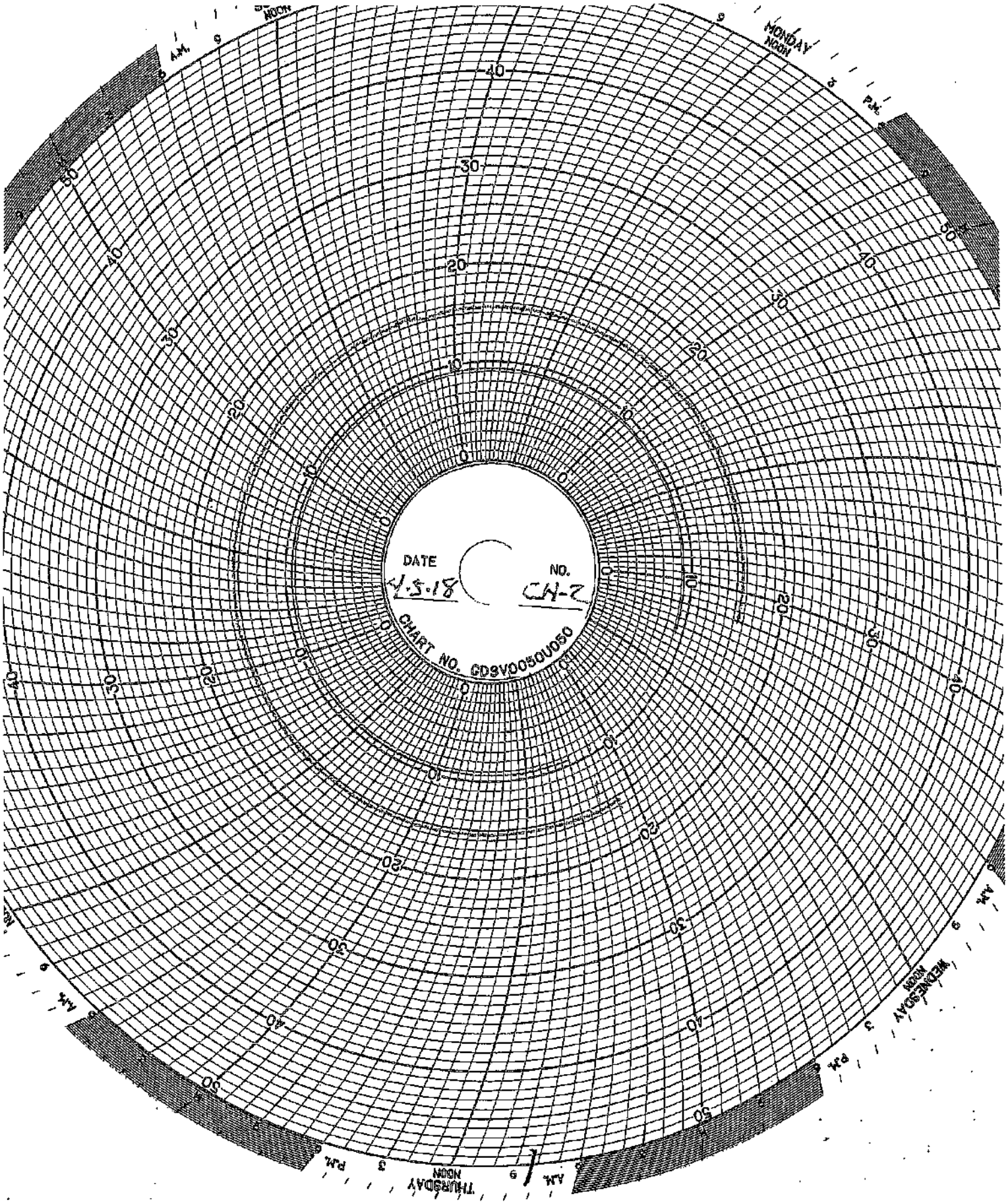
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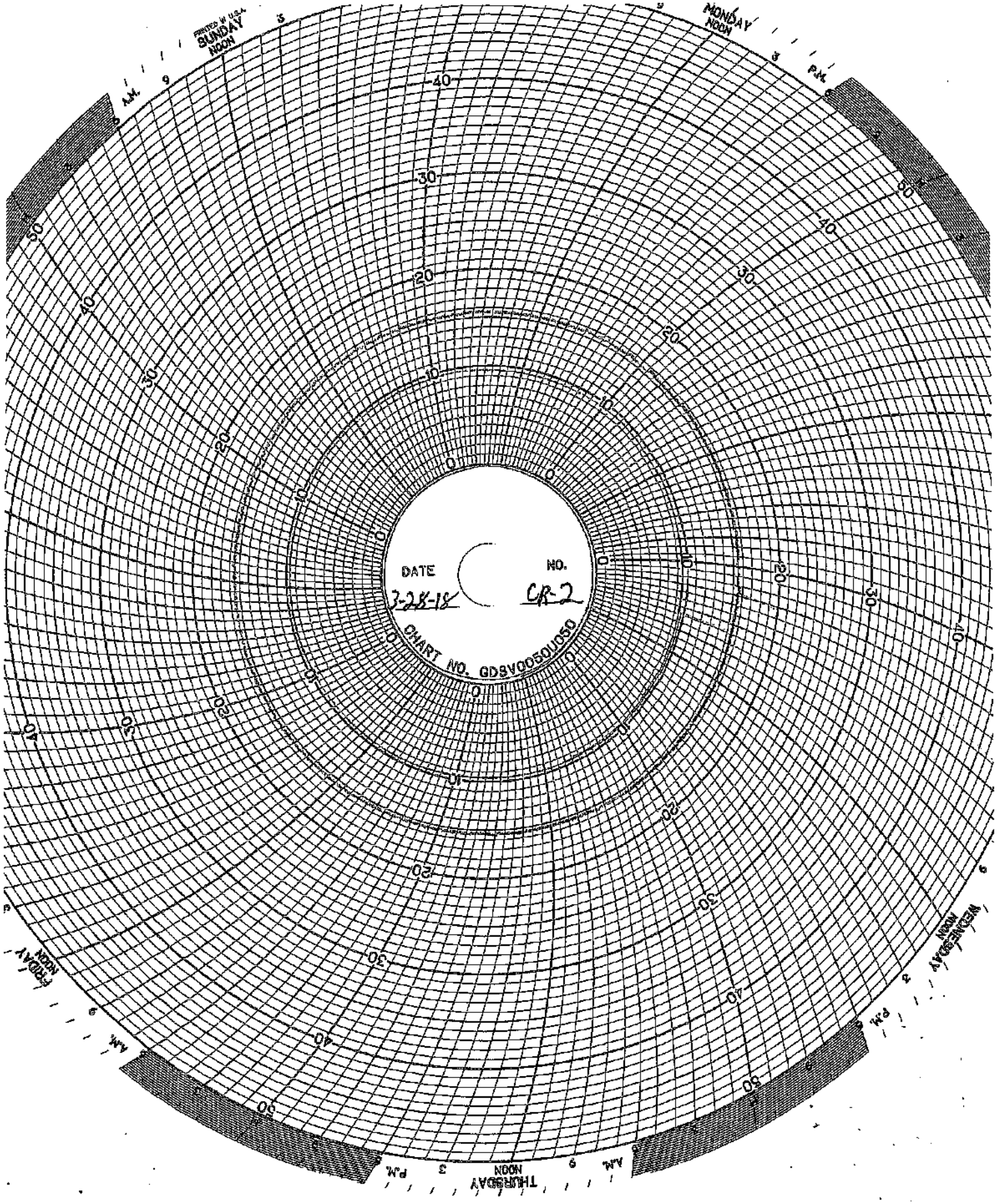
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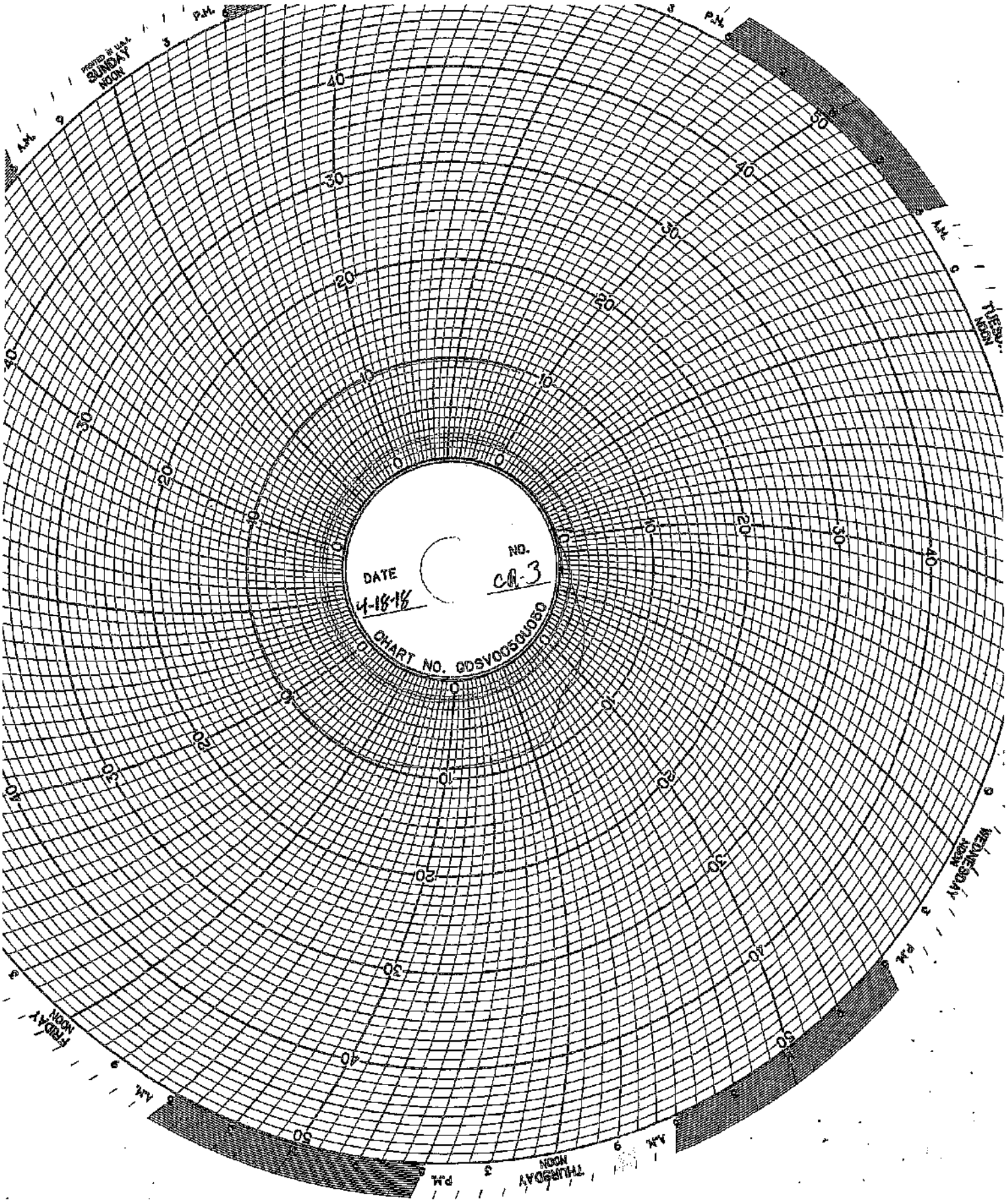
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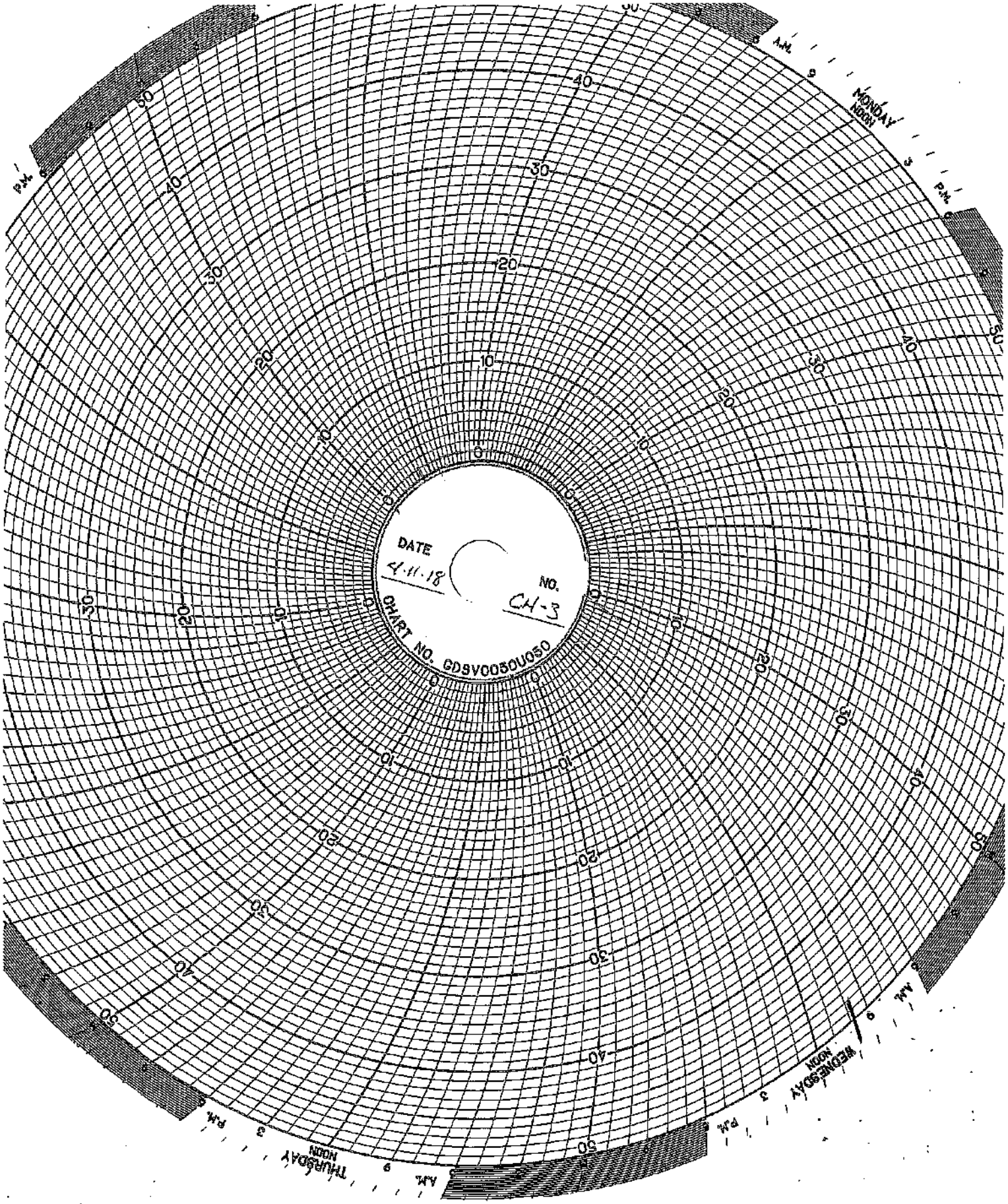
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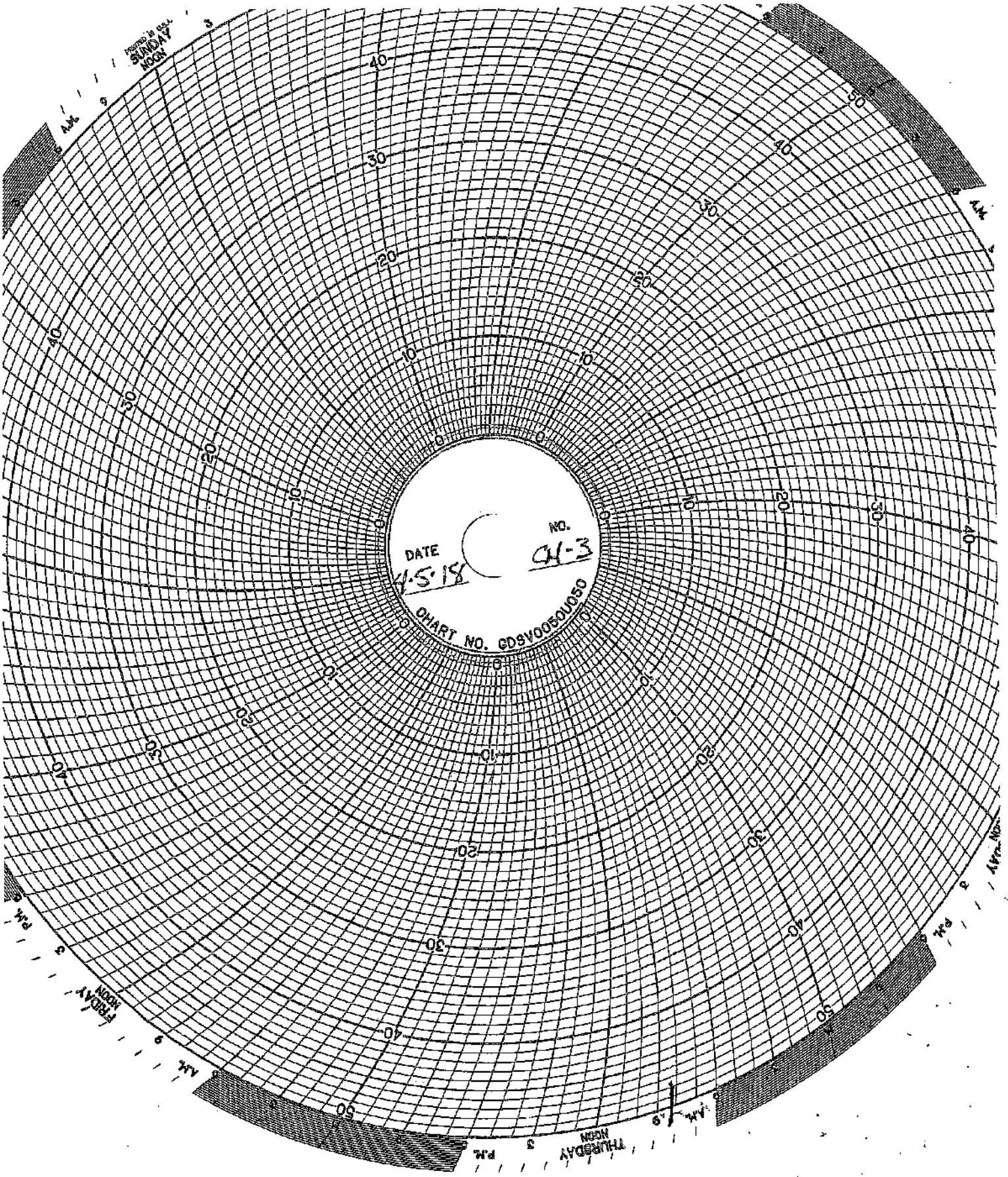
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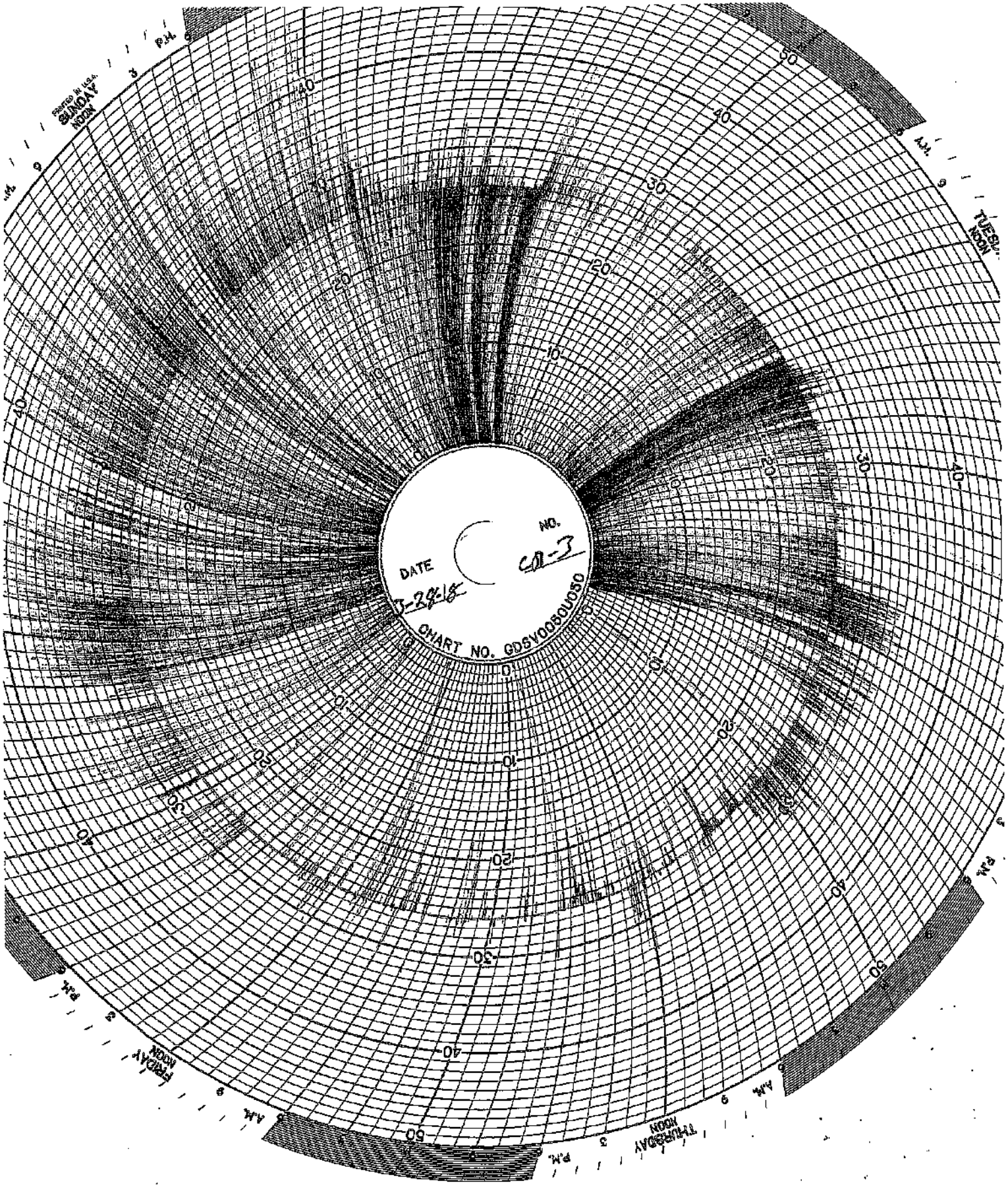
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MAINTENANCE LOG

UIC Monthly Maintenance Log

4/11/2018	Well 1	Replaced wellhead inlet hose with high pressure steel pipe

CORROSION MONITORING

CORROSION MONITORING PLAN
COUPON SUMMARY

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

CORROSION MONITORING PLAN
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
1/29/2018	13.326 g	10.930 g	18.027 g	New stainless steel coupon
2/9/2018	13.325 g	10.932 g	18.044 g	
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

April, 2018

Fiberglass Coupon

The coupon is dark orange (rust) in color with similar semi-smooth textures on both sides. Its cut edges appear sanded. The coupon is free of pits, cracks, swelling, wicking and blemishes.

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 appears to be no effect on this coupon.

Stainless Steel Coupon

This coupon continues to experienced corrosion with minimal loss of mass each month.

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.

GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/kni

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TOTAL 1 PAGES

GHESQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 883-1771

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

	Hardness
Specimen 1	85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

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Samples, extra and related test materials will be destroyed 30 days after the date of the final report unless the client indicates otherwise in writing.

October 2, 2014

▪ TEST REPORT ▪

PN 118325

PO Attn:John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: _____
Melissa Martin
Sr. Project Technician

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

ACCREDITED
A Testing Lab
Certificate Number 2950.01 & 2950.02

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

ISO 9001:2008
Registered

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www.ardl.com

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

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

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

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

	Results
Barcol Hardness, Instant	97

Prepared By: Melissa Martin
Sr. Project Technician

Approved By: Scott W. Yates
Plastics Testing Assistant Manager

st

December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one (1) material.

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

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	RESULTS
Barcol Hardness, Instant	96

Prepared By: Melissa Martin
Senior Project Technician

Approved By: Scott Yates
Plastics Testing, Assistant Manager

wk

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

AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

▪TEST REPORT▪

PN 139140

PO#

PLASTIC TESTING DEPARTMENT

Prepared For:

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

Prepared By: _____
Melissa Martin
Sr Project Technician

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

Rev 041916

ACCREDITED
A Testing Lab
Certificate Number 255.01 & 255.02

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

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Fax (330) 794-6610 | Worldwide (330) 794-6600

December 13, 2017

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	Results
Barcol Hardness, Instant	96

Prepared By: Melissa Martin
Sr Project Technician

Approved By: Scott Yates
Plastics Testing, Assistant Manager

SC

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

INJECTION FINGERPRINTS

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:40pm	04-02-18
Receiving ID#	I0402 1801
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AW

COPY

LAB INFORMATION (WASTE STREAM)		LAB INFORMATION (OIL ONLY)	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.20	TDS	2170
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	144mS		
% Solids	2.1%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

COPY

RECEIVING INFORMATION	
Date 10:42a	04-05-18
Receiving ID#	I04051801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	[illegible]

TEST INFORMATION ANALYSIS SUMMARY		OILY WASTE ONLY	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.30	TDS	19%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	185mS		
% Solids	19%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1%		
Radiation Screen (as needed)			
Lab Signature	[illegible]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 13:30 am	04/10/17
Receiving ID#	Z 04 10 18 01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AW

COPY

IMPRECIATION Waste Criteria		Chemical Analysis	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	8.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.01	TDS	3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	61°F		
Conductivity	1mS		
% Solids	3%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	PA		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:30 pm	04-10-18
Receiving ID#	T04101802
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DB
Sampled by	PS

COPY

LAB INFORMATION (Waste Profile)			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	7.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	3 mS		
% Solids	1%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFO	
Date 12:15	04/12/18
Receiving ID#	I 04121801
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	RS
Sampled by	AW

COPY

LAB INFORMATION (Waste Stream)		(Continued)	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	12.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	8%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	61mS		
% Solids	8%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 10:30 AM	04-12-18
Receiving ID#	~~I04171701~~ I04171801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	DS

COPY

LAB INFORMATION (To be completed by Lab)			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	13.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	123
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	56mS		
% Solids	12%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	Pan		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:02pm	04/13/18
Receiving ID#	I041318 01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AW

COPY

LABORATORY INFORMATION Oily Waste Tests		Other Tests	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	12.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	11%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	45mS		
% Solids	11%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:15am	04/18/18
Receiving ID#	Z041818 01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	RS
Sampled by	AW

COPY

LABORATORY ANALYSIS			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	12.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	12%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	106mS		
% Solids	12%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 9:38a	4/19/18
Receiving ID#	B0419180 1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	DB

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LAB INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	23%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	84mS		
% Solids	23%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 2:30pm	4-19-18
Receiving ID#	S0419R02
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	B

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LABINFORMATION (Lab Use Only)		OIL ANALYSIS Only	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	16%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	171mS		
% Solids	16%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 3:50pm	04/20/18
Receiving ID#	I04201801
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DS
Sampled by	AW

COPY

LABINCHEM Analysis Results		Additional Results	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	18%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	184mS		
% Solids	18%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 11:09A	4-24-15
Receiving ID#	I0424 1601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

COPY

LAB INFORMATION (All Waste Stream)		Continued	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	6.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	18%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	55mS		
% Solids	18%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:10AM	04-25-18
Receiving ID#	I04251801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	TE

COPY

LAB INFORMATION Analysis Results		Analysis Results	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	18%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	105mS		
% Solids	18%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:20 AM	04-27-18
Receiving ID#	I04271801
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	AS
Sampled by	TK

COPY

LAB INFORMATION (If Applicable)		Other Results	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	<140°F	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	19%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	51mS		
% Solids	21%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2%		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 12:20AM	04-28-18
Receiving ID#	1042818C1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	TE

COPY

LAB INFORMATION ANALYSIS SHEET		EGT ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	33mS		
% Solids	6%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	Pa		

WASTE STREAMS
CHARACTERIZATIONS

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile# 01285

GENERATOR INFORMATION

Name: [redacted] USEPA ID# [redacted]

Facility Address: [redacted] SIC/NAICS Code: _____ State Code: _____

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact [redacted] Phone: [redacted] Fax: ( )

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

IMPACTED WATER

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

3-1,000 GALLON UNDERGROUND TANKS FOUND ON CLOSED PROPERTY. TANKS ARE OLD AND CONTAIN WATER THAT IS IMPACTED WITH TARRY OIL WITH VINYL CHLORIDE

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: D043

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☒ White/Clear ☐ Black/Brown ☐ Other _____	☐ 0-1 % ☐ 1-3 % ☐ 3-5 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☐ Single Phase	☐ <0.8 ☒ 0.8–1.0 ☐ 1.0–1.2 ☐ 1.3–1.4 Exact / Other _____	acceptable 04.11.15

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 - 1.1 ppm PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
WATER	100	99	%				%
OIL	1	0	%				%
			%				%
			%				%
			%				%

EGT - 28470 Citrin Drive – Romulus – MI – 48174

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup

☒ Lab Analysis ☐ Generator Knowledge ☐ TCLP ☐ TOTAL

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

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

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

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

☐ Radioactive ☐ Water Reactive ☐ Oxidizer ☐ Shock Sensitive ☐ Reactive (other) ☐ DOT Explosives

☐ NIOSH Human-Positive Carcinogens ☐ NESHAP Wastes (Benzene, etc.) ☐ Biological ☒ None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds 1 pound
3. DOT Shipping Name HAZARDOUS WASTE LIQUID N.O.S. Hazard Class 9 UN/NA 3082

PG III ERG 171 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: 1,500 GALLONS 6. Anticipated Volume / Units per Year: _____ or ☒ One Time
6. Special Handling Requirements including PPE: NONE

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 ch[redacted]

Printed Name: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

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. _____ SAMPLING METHOD 2. _____ COLLECTION POINT

3. _____ SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes ☐ No ☐

5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

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

Analytical Laboratory Report

Report ID: S87344.01(01)
Generated on 02/09/2018

Report to
[redacted]

Phone: [redacted]
Email: [redacted]

Addtional Contacts: John Kemp

Report produced by
Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
John Laverty (johnlaverty@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Report Summary
Lab Sample ID(s): S87344.01-S87344.02
Project: [redacted]
Collected Date: 02/05/2018
Submitted Date/Time: 02/05/2018 13:51
Sampled by: Unknown
P.O. #:

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Maya Murshak
Technical Director

Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#68699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702
Alaska CSLAP	#17-001

Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods

Analytical Laboratory Report

Sample Summary (2 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S87344.01	Water & Oil (Water Layer)	Liquid	02/05/18 10:30
S87344.02	Water & Oil (Oil Layer)	Oil	02/05/18 10:30

Analytical Laboratory Report

Lab Sample ID: S87344.01
Sample Tag: Water & Oil (Water Layer)
Collected Date/Time: 02/05/2018 10:30
Matrix: Liquid
COC Reference: 106170

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	4.6	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Mercury Digestion*	Completed			SW7471B	02/08/18 10:15	JRH		
Metal Digestion	Completed			SW3015A	02/07/18 11:00	CCM		
TCLP Zero Headspace Ext.	<0.5%			SW1311	02/06/18 11:35	JBL		
TCLP/SPLP BNA Extraction	Completed			SW3510C	02/07/18 14:00	PLB		
TCLP Extraction								
Inital Sample pH	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
pH after 3.5 ml HCl	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
% Solids	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
Sample Used g	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
Final Volume mL	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
TCLP Extraction Fluid	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
Final Extract pH	<0.5%			SW1311	02/06/18 11:35-02/06	JBL		
Inorganics								
Flash Point*	Not detected	oF	180	ASTMD3278-96	02/07/18 16:55	PL	<140	
pH/ Corrosivity*	5.29	STD Units	0.01	SW9045D	02/08/18 18:54	ASB	2-12.5	
Reactive Cyanide*	Not detected	mg/kg	0.5	SW9010B	02/08/18 13:22	JDP		
Reactive Sulfide*	Not detected	mg/kg	2.0	SW9030B	02/08/18 11:20	JDP		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	02/07/18 13:45	CCM	5.0	
Barium, TCLP	0.41	mg/L	0.05	SW6020A	02/07/18 13:45	CCM	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	02/07/18 13:45	CCM	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	02/07/18 13:45	CCM	5.0	
Lead, TCLP	Not detected	mg/L	0.03	SW6020A	02/07/18 13:45	CCM	5.0	
Mercury, TCLP*	Not detected	mg/L	0.0005	SW7471B	02/08/18 12:46	JRH	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	02/07/18 13:45	CCM	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	02/07/18 13:45	CCM	5.0	
Organics - Semi-Volatiles								
TCLP Semi Volatiles								
o-Cresol*	Not detected	ug/L	1,000	SW8270D	02/07/18 20:57	PL	200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	02/07/18 20:57	PL	200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	02/07/18 20:57	PL	100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	02/07/18 20:57	PL	400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	02/07/18 20:57	PL	2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	02/07/18 20:57	PL	130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	02/07/18 20:57	PL	130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	02/07/18 20:57	PL	500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	02/07/18 20:57	PL	3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	02/07/18 20:57	PL	2,000	
Pyridine	Not detected	ug/L	100	SW8270D	02/07/18 20:57	PL	5,000	

Analytical Laboratory Report

Lab Sample ID: S87344.02
Sample Tag: Water & Oil (Oil Layer)
Collected Date/Time: 02/05/2018 10:30
Matrix: Oil
COC Reference: 106170

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	32oz Glass	None	Yes	4.6	R

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Extraction, PCB*	Completed			SW3550C	02/07/18 14:30	PLB		
Organics - PCBs/Pesticides								
PCB List								
PCB-1016*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1242*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1221*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1232*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1248*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1254*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		
PCB-1260*	Not detected	ug/kg	1,000	SW8082A	02/07/18 18:48	JAN		

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
28470 Citrin Dr, Romulus, MI 48174, Telephone 734 946 1000, Fax 734 946 1002

Generator Waste Profile
Profile # 01335

GENERATOR INFORMATION

Name: [redacted] USEPA ID #

Facility Address: [redacted] SIC/NAICS Code: State Code:

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Title: Phone: [redacted] Fax: [redacted]

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Zinc - Nickel Plating Bath

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

Plating Processes

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ☒ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown ☒ Other PURPLE	☒ 0-1 % ☐ 1-3 % ☐ 3-5 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☒ Single Phase	☐ <0.8 ☐ 0.8 – 1.0 ☒ 1.0 – 1.2 ☐ 1.3 – 1.4 Exact / Other 1.22	accepted 04.13.18

pH: ☐ NA ☐ ≤ 2 ☐ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 ☒ ≥ 12.5

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

VOC CONCENTRATION - — 0 — PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
Water	99	70	%				%
Sodium Hydroxide	25	1	%				%
Solids (Settleable)	5	0	%				%
			%				%
			%				%

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

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

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name RQ, UN3266, Waste Corrosive Liquid, basic, inorganic, N.O.S. (Sodium hydroxide) Hazard Class 8 UN 3266
PG I ERG 154 Hazardous Constituents for "n.o.s." sodium hydroxide
4. Method of Shipment: ☒ Bulk Tanker ☒ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: varies 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: [redacted] Title: [redacted]

Generator's Signature: [redacted] Date: [redacted]

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

3. _____
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes ☐ No ☐

5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIPT INFORMATION	
Date	4/13/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[redacted]
Client	Zn-Ni Plating
Transporter	Bath
Time in	
Time out	
Received by	RJ
Sampled by	

LAB INFORMATION			
Compatible? (RT#) bases	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	12.5	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.22	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	70°F		
Conductivity	205mS		
% Solids	36%		
Turbidity	Yes (No)		
Color (visual)	Purple		
TSS (%)	<1%		
Radiation Screen (as needed)	negative		
Lab Signature	[signature]		

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile #01341

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

Facility Address: [redacted] SIC/NAICS Code [redacted] State Code: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Contact: [redacted] Phone: [redacted] Fax: [redacted]

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted] Zip Code: [redacted]

Attention: [redacted] Phone: [redacted] Fax: ( )

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Aliment

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

Unused product, off spec out of date.

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ☒ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown ☒ Other ____	☐ 0-1 % ☐ 1-3 % ☒ 3-5 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☒ Single Phase	☐ <0.8 ☐ 0.8 – 1.0 ☒ 1.0 – 1.2 ☐ 1.3 – 1.4 Exact / Other ____	acceptable 04.24.18

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 - <500 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Methionine Hydroxy Analogue		88 %			%
		%			%
water		12 %			%
		%			%

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

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

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

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

IS WASTE ANY OF THE FOLLOWING? *At Least One Box Must Be Checked.*
☐ Radioactive ☐ Water Reactive ☐ Oxidizer ☐ Shock Sensitive ☐ Reactive (other) ☐ DOT Explosives
☐ NIOSH Human-Positive Carcinogens ☐ NESHAP Wastes (Benzene, etc.) ☐ Biological ☒ None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☐Yes ☐No
2. Reportable Quantity (RQ) in pounds 100lbs D002
3. DOT Shipping Name Waste Corrosive liquid, acidic, organic n.o.s. Hazard Class 8 UN/NA UN3265
PG III ERG 153 Hazardous Constituents for "n.o.s." Methionine Hydroxy Analogue
4. Method of Shipment: ☐Bulk Tanker ☐Vac truck ☐Rail Car ☒Drums ☒Totes
5. Number of Units to Ship Now: 8 totes 6. Anticipated Volume / Units per Year: as needed of ☐ 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 charac[redacted]

Printed Name: [redacted] Title [redacted]

Generator's Signature: [redacted] Date: [redacted]

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. _____ 2. _____
SAMPLING METHOD COLLECTION POINT

3. _____
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. _____ Preservation: Yes ☐ No ☐

5. CHAIN OF CUSTODY *Each person who handles the sample must sign below when the sample passes from one to another.*

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	4/23/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	[redacted]
Transporter	
Time In	
Time out	
Received by	PS
Sampled by	

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	1.9	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.08	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	5mS		
% Solids	32%		
Turbidity	Yes No		
Color (visual)	brown		
TSS (%)	4%		
Radiation Screen (as needed)	negative		
Lab Signature	[signature]		

Strong odor

NOVUS®

MATERIAL SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Synonyms:	2-hydroxy-4-(methylthio) butanoic acid, methionine hydroxy analogue
Chemical Formula:	$CH_3S(CH_2)_2CHOHCOOH$
CAS Reg. No.:	583-91-5
Product Use:	Liquid Animal Feed Supplement

NOVUS INTERNATIONAL, INC.
530 Maryville Centre Drive
St. Louis, MO 63141-5862
Telephone: 314-576-8886
For Emergencies: 800-568-0088
CHEMTREC: 800-424-9300

NOVUS INT'L (CANADA) INC.
2910 South Sheridan Way
Oakville, Ontario, Canada L6J 7J8
Telephone: 905-845-1878
For Emergencies: 800-568-0088
CANUTEC: 613-996-6666

NOVUS International de México
Bosque de Ciruelos, 194 PM
Col. Bosques de las Lomas
Mexico, D.F. 11700
Telephone: 525-251-3433
For Emergencies: 800-568-0088
SETIQ (in Mex): 01-800-002-1400

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Ingredients:	CAS Number	% by weight	OSHA PEL	ACGIH TLV
Methionine Hydroxy Analogue	583-91-5	>88%	N.E.	N.E.
Water	7732-18-5	<12%	N.E.	N.E.

N.E. = Not Established

3. HAZARDS IDENTIFICATION

Emergency Overview

Light brown to brown liquid with sulfur odor.

DANGER! **CAUSES EYE BURNS** **CAUSES SKIN IRRITATION**

Potential Health Effects

EYE CONTACT:	Corrosive. Causes severe eye burns.
SKIN CONTACT:	Causes skin irritation.
INHALATION:	Vapors have strong offensive odor, which may cause nausea, especially when exposures occur in situations without adequate ventilation or breathing protection.
INGESTION:	May be harmful if swallowed. Irritating to mouth, throat and stomach.

4. FIRST AID PROCEDURES

IF IN EYES:	Immediately flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention
IF ON SKIN:	Immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse.
IF INHALED:	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.
IF SWALLOWED:	Do NOT induce vomiting. Give victim a glass of water or milk. Get immediate medical attention. Careful evacuation of stomach by medical personnel imperative. Never give anything by mouth to an unconscious person.

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES:	Methionine hydroxy analogue contains approximately 12% water and presents no fire hazard until the water is driven off and only a mild or non-violent fire hazard potential after water content has evaporated. Product meets NFPA-30 Code (1996 Edition), Section 1-2, definition of Class IIIB combustible liquid after water content driven off. Combustion generates toxic fumes of sulfur oxides and carbon monoxide.
FLASH POINT:	No flash point observed using Pensky-Martens Closed Cup Method up to boil-over temperature of ~116°C (240°F). Simultaneous flash/fire point observed using Cleveland Open Cup Method at ~202°C (395°F). Boiling first observed at ~121°C (250°F) and continued until moisture driven off before temperature rise to fire point.
EXTINGUISHING MEDIA:	Water spray, foam, dry chemical, CO_2 or Class B extinguishing agent. Do not flush to drain.
FIREFIGHTING INSTRUCTIONS:	As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Observe all protection and safety precautions when cleaning up spills. Refer to Section 3, Hazards Identification and Section 8, Exposure Controls/Personal Protection.

Avoid contamination of any material remaining in original product containers. Use only hoses and equipment known to be clean and suitable for food-grade product service in handling any product for potential salvage.

SMALL SPILL:	Keep people away. Absorb spills on floor or other impervious surfaces with lime, clays or other non-biodegradable materials. Collect contaminated sorbent and place in a plastic-lined drum. After removing all possible material, wash contaminated surface with industrial detergent solution and rinse with water. Deodorize cleaned surface with 5% sodium hypochlorite solution. DO NOT mix sodium hypochlorite solutions with undiluted methionine hydroxy analogue.
LARGE SPILL:	Keep people away. Contain where possible to prevent runoff from entering storm sewers and ditches which lead to waterways. Pick up by suction or vacuum truck using clean, suitable equipment. Avoid contamination of any material remaining in original product containers. Use only hoses and equipment known to be clean and suitable for food-grade product service in handling any product for potential salvage. Neutralize spills on ground with lime if possible. Dig up all contaminated soil and product and isolate from uncontaminated materials in a plastic lined drum or other suitable container.
WATER SPILL:	Keep people away. Methionine hydroxy analogue readily mixes with water. If containment and clean up is not possible, natural dilution will reduce acidity. Do not intentionally dilute.

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

7. HANDLING AND STORAGE

HANDLING: Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Emptied container retains vapor and product residue. Follow all MSDS and label precautions until container is cleaned, reconditioned or destroyed as container may retain product residues.

STORAGE: Store under sanitary conditions with other feed ingredients. Do not store near combustible materials. Keep container closed when not in use. Keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EYE PROTECTION: Wear chemical safety goggles. Facilities storing or using product should be equipped with an immediately available eye wash facility.

SKIN PROTECTION: Wear appropriate protective clothing, chemical-resistant gloves and shoes to prevent skin contact. Safety shower should be located in area where product is handled. Clean equipment after handling product. Wash thoroughly after handling product.

RESPIRATORY PROTECTION: Methionine hydroxy analogue does not have established airborne exposure limits. Use MSHA/NIOSH-approved full-face respiratory protection equipment when airborne exposure causes discomfort. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by MSHA/NIOSH or the manufacturer. Respiratory protection programs must be in compliance with 29 CFR 1910.134. For confined space entry, comply with 29 CFR 1910.146.

VENTILATION: Good general ventilation should be sufficient to control airborne levels. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light brown to brown liquid
Odor:	Sulfur
Density:	1.22 gm/cm3 (10.16 lbs/gal) @ 25° C
	1.24 gm/cm3 (10.33 lbs/gal) @ 5° C
Vapor Pressure:	18mm Hg at 25°C
Solubility in Water:	Completely soluble
Viscosity:	105 cs @ 20°C:
	500 cs @ 0°C:
Boiling Point:	421°C (250°F)
pH:	<1
Freezing Point:	Product should be protected from exposure to temperatures below 0°C (32°F).

NOTE: These physical data are typical values based on material tested, but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specification items.

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

10. STABILITY AND REACTIVITY

STABILITY: Stable under expected and reasonable conditions of storage and use.

INCOMPATIBILITIES: Avoid contact with strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCT: Product decomposition with gas evolution can occur on exposure to temperatures exceeding 180°C. No uniquely hazardous decomposition products are expected. If the product is burned, as with any sulfur-containing organic material, sulfur dioxide, carbon dioxide, and carbon monoxide can be produced.

HAZARDOUS POLYMERIZATION: Does not occur.

11. TOXICOLOGICAL INFORMATION

Single exposure (acute) studies indicate:

Methionine Hydroxy Analogue:
(CAS # 583-91-5)

Oral - Rat LD_{50} : 2601 mg/kg
Oral – Mouse LD_{50}: male-3196 mg/kg, Female- >3125 mg/kg
Dermal - Rabbit LD_{50} : >2,000 mg/kg, Mouse- > 5000 mg/kg
Eye Irritation - Corrosive (Rabbit)
Skin Irritation - Slightly Irritating (Rabbit, 4-hr exposure)
Skin Irritation - Moderately Irritating (Rabbit, 24-hr exposure, 4.1/8.0)

Product has produced no genetic changes in standard tests using bacterial cells.

12. ECOLOGICAL INFORMATION

ASSESSMENT: Slightly toxic for Selenastrum and Scenedesmus (algae).
Practically nontoxic for water flea and fish.
Biodegradable.

TEST RESULTS:

96 hr LC_{50} Fish (Brachydanio rerio): 336 mg/l
72 hr EC_{50} Algae (Scenedesmus subspicatus): 82 mg/l
72 hr EC_{50} Algae (Selenastrum capricornutum): 87 mg/l
48 hr LC_{50} Water flea (Daphnia magna): 222 mg/l

Biodegradation (% after 28 days):	50 mg/l: 88% 100 mg/l: 91%
Activated sludge respiration inhibition test:	3 hr EC_{50} ≥ 1 g/l

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

13. DISPOSAL CONSIDERATIONS

Dispose of all contaminated product, soil, debris, sorbents and other spill clean-up materials in accordance with applicable Federal, state or local procedures.

Contaminated materials, including contaminated or unwanted product may be classified as hazardous under the Federal Resource and Conservation Act (RCRA) and related state laws. Disposal of these materials may be subject to the RCRA Land Disposal Restriction requirements including the Universal Treatment Standards.

14. TRANSPORTATION INFORMATION

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION: Not regulated under U.S. DOT or Canadian TDG regulations

15. REGULATORY INFORMATION

SARA Hazard Notification: Physical & Health Hazard Categories, 40 CFR Part 370:

√ Immediate (acute):
__ Delayed (chronic):
__ Fire hazard;
__ Reactive hazard:
__ Sudden Release of Pressure:

Section 313 Toxic Chemicals:	Not applicable.
OSHA Hazard Communication Standard:	Hazardous under the criteria of the OSHA Hazard Communication Standard (29 CFR 1910.1200).
US Food and Drug Approval:	Generally recognized as safe (GRAS) when used in animal feeds in accordance with good manufacturing or feeding practice. (21 CFR 582.5477).
NFPA Hazard Identification Label:	Health-3 (corrosive to eyes); Fire Hazard-1 (flash point >200° F); Reactivity-0 (stable); Specific Hazard-None
HMIS® Rating	Health-3; Flammability-1 ; Reactivity-0
WHMIS Classification:	Class D – Poisonous and Infectious Material, Division 2 This product has been classified according to the hazard criteria of the Canadian Consumer Products Regulation (CPR) and the MSDS contains all the information required by the CPR.

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

Chemical Inventory Status

	TSCA	EU	AUS	CAN-DSL	Japan	Korea	Philippines	Swiss
Methionine hydroxy analog	√	√	√	√	√	√	√	–

European Information:

R38	Irritating to skin
R41	Risk of serious damage to eyes
S20	When using do not eat or drink
S24/25	Avoid contact with skin and eyes
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

Label Text:

DANGER! CAUSES EYE BURNS CAUSES SKIN IRRITATION

Do not get in eyes, on skin or on clothing.
Avoid breathing vapor or mist.
Keep container closed.
Use with adequate ventilation.
Wash thoroughly after handling.

Prepared By: S.Geissmann
Title: Manager, Government Affairs

Supersedes: AL001.1, Issue date October 30, 2001

Revision Information: Change in MSA

FOR ADDITIONAL NON-EMERGENCY INFORMATION, CONTACT:
GOVERNMENT AFFAIRS
NOVUS INTERNATIONAL, INC. TELEPHONE: 314-576-6421 FAX: 314-576-2146

MATERIAL SAFETY DATA SHEET

ALIMET® Feed Supplement
METHIONINE HYDROXY ANALOGUE

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AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2018

CURRENT REPORTING MONTH APRIL

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

NOV 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	232,792	0	232,792
Since facility first injected			13,896,720
MI-163-1W-C011, Well #2-12			
Current Month	0	0	0
Since facility first injected			4,648,736
		Lifetime Combined	18,545,456

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 52

52 lifetime number of months of injection × 43,830 minutes/month
= 2,279,160 minutes of injection

Lifetime combined injected volume 18,545,456 ÷ 2,279,160 minutes of injection
= 8.1 gpm average injection rate

WELL 1 DATA

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differentail Pressure (PSIG)	Max Differential Pressure (PSIG)
4/1/2018	34.0	35.9	15.8	16.1	721.2	722.1	0.3	0.3	0.0	0.0	685.7	687.5
4/2/2018	-10.0	734.7	15.8	16.1	661.3	1099.9	0.3	0.3	9.2	150.4	316.1	786.8
4/3/2018	-10.0	724.9	15.8	16.1	669.4	1115.8	0.3	0.3	9.9	152.4	347.4	763.5
4/4/2018	-10.0	753.3	15.8	16.1	690.2	1097.6	0.3	0.3	6.6	138.9	314.7	754.4
4/5/2018	-9.1	744.8	15.8	16.1	643.9	1106.9	0.2	0.2	7.2	139.8	299.4	785.2
4/6/2018	-9.9	755.3	15.8	16.1	661.2	1051.2	0.2	0.2	3.4	143.2	228.3	730.8
4/7/2018	134.4	187.7	15.8	16.1	733.3	747.5	0.2	0.2	0.0	0.0	545.6	613.1
4/8/2018	104.0	134.4	15.8	16.1	747.5	749.0	0.2	0.2	3.3	0.0	613.1	644.9
4/9/2018	103.6	755.1	15.7	16.2	665.4	1027.5	0.2	0.2	5.6	17.5	162.4	645.3
4/10/2018	84.5	758.0	15.8	16.0	667.2	1023.7	0.2	0.2	7.5	27.6	184.6	640.2
4/11/2018	94.4	758.0	15.6	16.0	732.8	1055.0	7.8	8.9	2.7	0.0	262.2	670.6
4/12/2018	49.6	758.0	15.6	16.0	726.2	1072.8	12.8	13.0	3.1	17.7	282.7	705.5
4/13/2018	49.5	758.0	15.7	16.0	709.4	1087.7	12.7	13.0	4.9	17.9	283.2	706.6
4/14/2018	221.4	337.1	15.7	16.0	740.4	752.1	12.7	12.7	0.0	0.0	403.3	530.6
4/15/2018	203.6	222.2	15.7	15.9	752.0	753.0	12.7	12.7	0.0	0.0	529.9	549.4
4/16/2018	204.2	204.2	-12.5	-12.5	753.0	753.0	12.7	12.7	0.0	0.0	548.8	548.8
4/17/2018	-8.3	860.2	-12.5	53.2	706.5	1142.0	12.7	12.7	9.5	43.7	234.3	748.3
4/18/2018	-1.9	908.7	23.7	24.0	708.7	1102.2	12.8	12.8	9.6	0.0	181.1	712.7
4/19/2018	-10.0	950.0	23.7	24.0	690.0	1175.3	0.5	12.8	18.2	140.6	181.8	753.5
4/20/2018	-8.9	959.9	23.8	24.1	652.5	1184.8	0.5	1.0	10.4	122.2	137.7	753.7
4/21/2018	93.9	154.5	23.7	24.0	704.0	716.2	1.0	1.0	0.0	0.0	549.5	622.3
4/22/2018	79.2	94.0	23.7	24.1	716.2	719.0	1.0	1.0	0.0	0.0	622.2	639.8
4/23/2018	-10.0	900.3	23.8	24.1	718.9	1154.1	1.0	1.0	10.6	142.5	245.1	755.0
4/24/2018	-9.8	860.1	23.6	24.1	743.0	1190.3	1.0	1.6	11.5	162.4	304.2	922.8
4/25/2018	-9.9	824.6	23.7	24.0	742.4	1293.3	0.3	1.6	5.5	164.6	353.1	1020.0
4/26/2018	-9.4	762.1	23.6	24.0	730.1	1155.1	0.3	0.3	5.0	136.9	384.9	786.3
4/27/2018	-10.0	906.7	23.7	24.0	695.8	1145.9	0.3	0.3	12.9	236.1	208.5	786.2
4/28/2018	114.8	900.7	23.8	24.0	722.9	1126.3	0.3	7.0	2.1	0.0	186.1	653.1
4/29/2018	113.9	897.4	23.1	24.0	767.8	1211.3	7.0	7.0	2.4	17.2	137.8	656.2
4/30/2018	126.2	900.1	23.1	23.4	815.3	1178.9	7.0	7.0	7.6	24.5	252.7	781.0

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

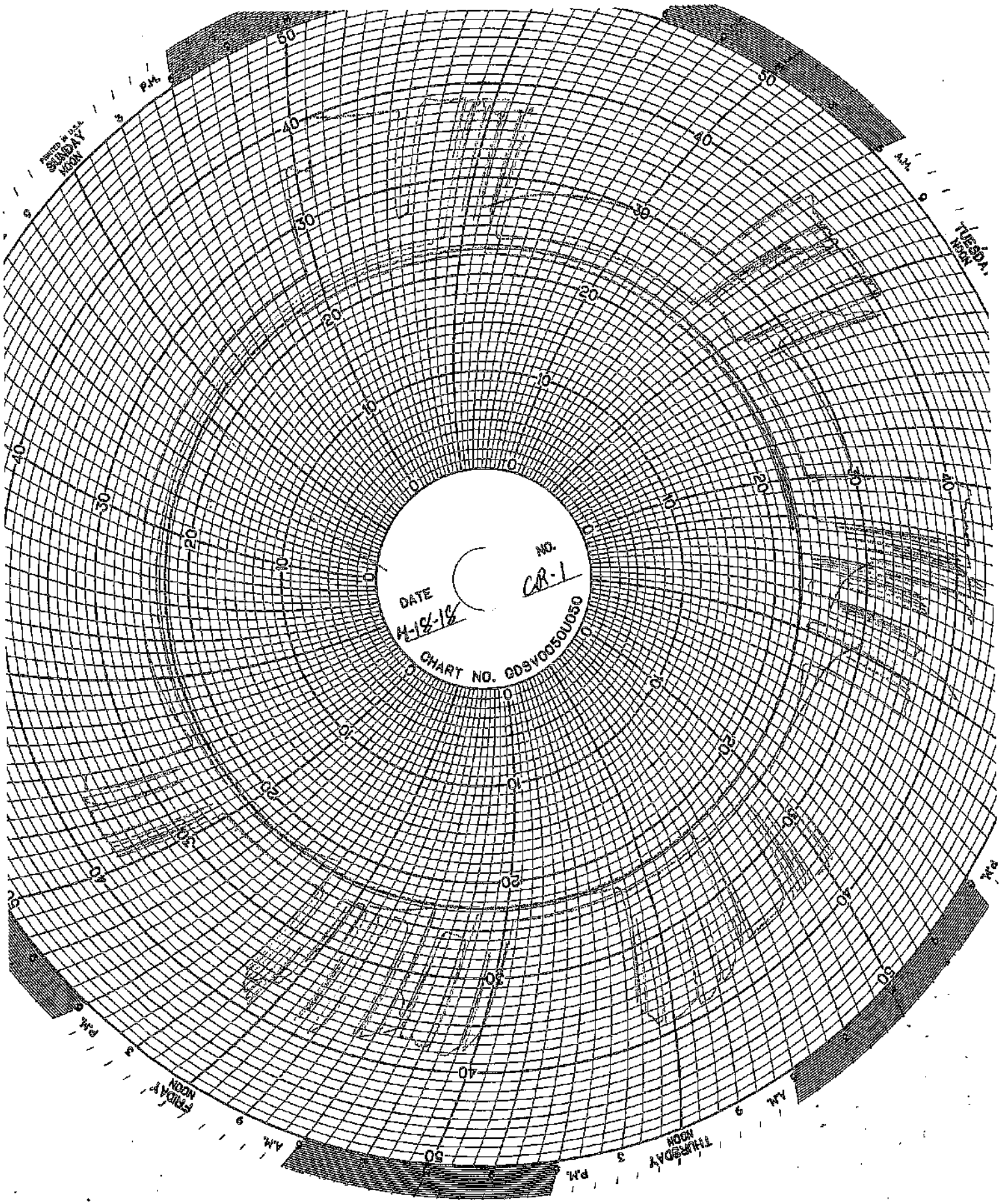
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)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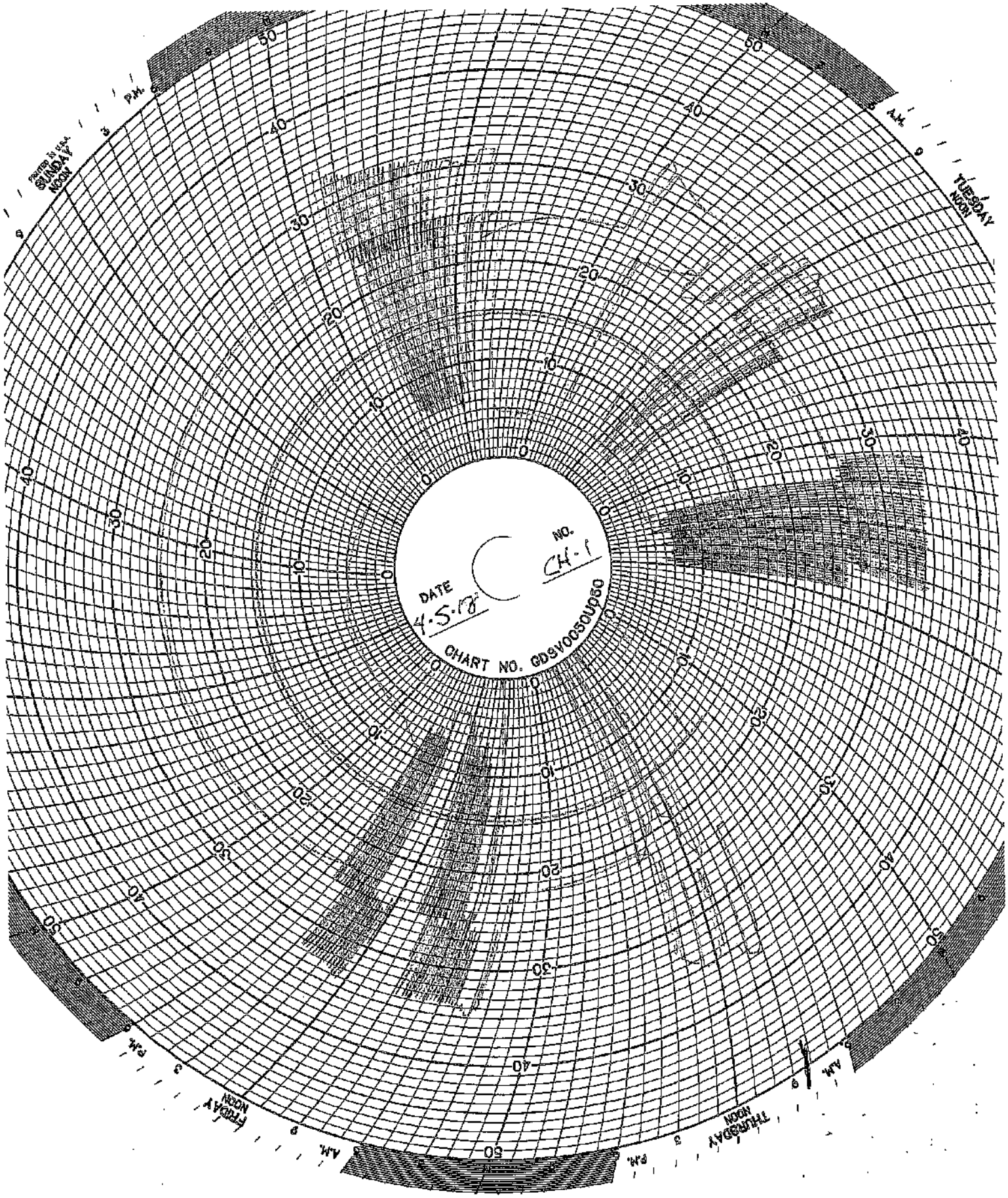
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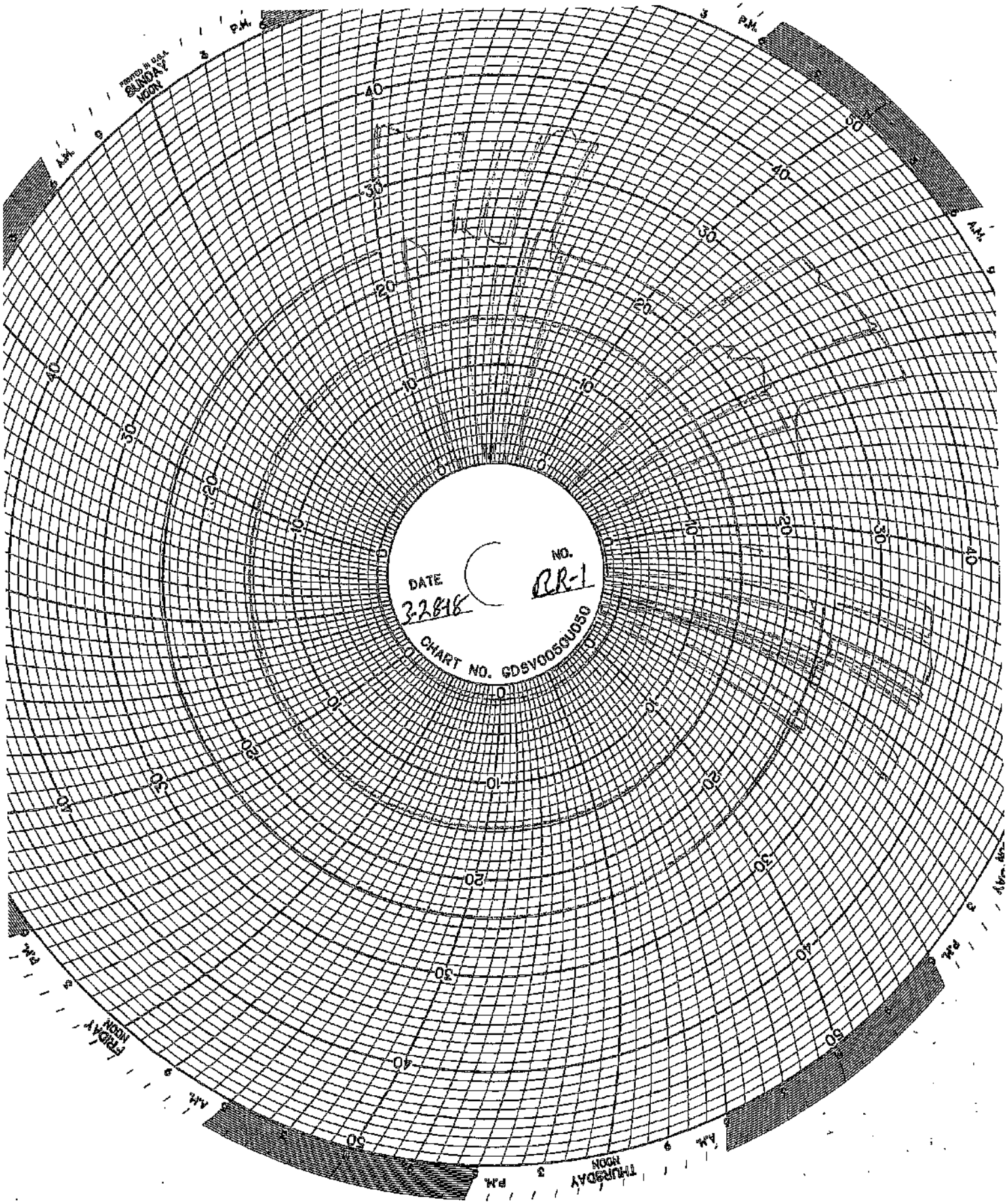
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