Environmental GEO-Technologies, LLC

April 28, 2017

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 forty-first Monthly Report 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 hereby timely submits its twenty-second Injection Fluid Analyses (for March, 2017) identified on both Pages A-3 of 3 also in conformance with EGT's two EPA UIC permits with the attached "Data Summary Sheet" from a contract laboratory, Ann Arbor Technical Services, Inc., and, those results demonstrate compliance with all of the limits for each of the chemical entities ("Names) identified on Page A-3 of 3 for F039 waste which EGT accepted.

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.

rjp042817/EGTEPAMonthlyReport-March, 2017

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

290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0998 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Semivolatile Organic Compounds Data Summary Sheet

For: Mr. Richard Powals
Environmental Geo-Technologies, Inc.
28470 Citrin Drive
Romulus, MI 48174

ATS Project: Environmental Geo-Technologies, Inc. #E008-000
Report Date: 4/26/17
ATS SRF: 0405171

Sample Identification: March Composite 2017

Sample Date:	4/3/17		
Laboratory Receipt Date:	4/5/17	QC Batch Number:	QCORG0405171-E
Preparation Date:	4/5/17, 4/18/17		B7D0081
Analysis Date:	4/18/17, 4/20/17	Sample Matrix:	Wastewater
		Dilution Factor:	500

Parameter (CAS)	Method	Units	Result	Reporting Limit
Aldrin (309-00-2)	EPA 8270 Mod	mg/mL	<0.00001	0.00001
Benzidine (92-87-5)	EPA 8270 Mod	mg/mL	<0.00075	0.00075
N-Nitrosodimethylamine (62-75-9)	EPA 8270 Mod	mg/mL	<0.0001	0.0001
Tetraethyl Lead (78-00-2)	EPA 8270 Mod	mg/mL	<0.00005	0.00005
Hexachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Octachlorodibenzofuran (39001-02-0)	EPA 1613B	mg/mL	0.0000000016	0.00000000005
Octachlorodibenzo-p-dioxin (3268-87-9)	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Tetrachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000004	0.00000000004

Surrogates / Labeled Standards:	Method	Percent Recovery	Recovery Limits
2-Fluorobiphenyl	EPA 8270 Mod	109.9	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	100.6	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	139.3	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	78.9	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	39.6	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	38.7	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	36.2	(32 - 141)
13C-OCDF	EPA 1613B	37.3	(17 - 157)
13C-OCDD	EPA 1613B	33.1	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	41.3	(25 - 164)

Comments:
USEPA Analysis 1613B performed by Vista Analytical.

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2017

CURRENT REPORTING MONTH MARCH

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	466,134	0	466,134
Since facility first injected			9,046,040
MI-163-1W-C011, Well #2-12			
Current Month	112,702	0	112,702
Since facility first injected			4,216,778
		Lifetime Combined	13,262,818

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 40

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

= 1,753,200 minutes of injection

Lifetime combined injected volume 13,262,818 ÷ 1,753,200 minutes of injection

= 7.6 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)
3/1/2017	9.6	71.1	21.2	23.4	509.7	1005.9	4.7	8.5	0.0	0.0	494.5	991.1
3/2/2017	5.1	752.9	21.2	22.5	893.2	1201.9	5.1	10.6	0.0	83.2	232.0	980.4
3/3/2017	18.8	748.7	21.1	22.6	896.8	1200.7	7.9	7.9	0.0	87.3	270.8	967.6
3/4/2017	28.2	727.0	21.3	22.6	897.7	1201.5	7.9	7.9	0.0	56.7	266.1	911.4
3/5/2017	26.5	757.1	21.0	22.5	897.2	1200.5	7.9	7.9	0.0	70.8	255.4	973.0
3/6/2017	32.6	749.3	20.8	22.4	899.3	1200.3	4.9	13.4	0.0	48.9	301.9	975.8
3/7/2017	57.7	762.4	21.2	22.6	897.8	1200.1	7.9	14.0	0.0	43.8	229.3	900.3
3/8/2017	51.0	746.3	21.0	22.2	899.8	1200.4	7.9	7.9	0.0	40.9	340.7	935.5
3/9/2017	-9.8	725.2	21.1	22.5	898.5	1250.7	5.9	11.3	0.0	0.0	304.0	1007.5
3/10/2017	-2.8	720.3	21.0	22.3	899.8	1200.5	6.5	14.0	0.0	126.8	350.0	958.9
3/11/2017	36.3	40.1	20.9	21.3	968.6	988.5	6.1	7.9	0.0	0.0	928.4	952.2
3/12/2017	33.1	39.3	21.0	21.5	981.1	987.2	7.9	8.0	0.0	0.0	932.2	948.0
3/13/2017	26.4	750.8	20.9	22.4	899.3	1200.6	7.9	8.0	0.0	45.2	294.8	953.5
3/14/2017	71.6	755.1	20.9	22.7	899.7	1202.1	7.9	7.9	0.0	41.0	268.2	913.2
3/15/2017	99.5	746.0	21.5	22.7	899.8	1200.2	7.9	7.9	0.0	37.0	260.3	858.4
3/16/2017	-3.4	771.3	20.5	22.2	899.1	1200.4	5.7	14.0	0.0	65.9	209.9	1051.7
3/17/2017	-9.8	761.1	20.4	21.6	899.9	1199.3	4.5	14.0	0.0	76.5	430.4	1155.4
3/18/2017	-1.1	-0.2	20.9	21.2	984.8	986.4	3.0	6.0	0.0	6.5	985.2	987.4
3/19/2017	-1.2	-0.3	20.9	21.2	985.9	986.4	3.2	5.7	0.0	0.0	986.4	987.4
3/20/2017	-9.4	746.5	21.0	22.7	899.6	1201.7	3.4	13.1	0.0	41.3	238.3	995.1
3/21/2017	-1.2	772.8	21.5	22.8	899.1	1201.5	7.9	7.9	0.0	0.0	245.2	1202.2
3/22/2017	235.1	748.4	21.5	22.7	900.0	1200.0	7.9	7.9	0.0	27.3	285.0	768.3
3/23/2017	243.0	745.3	22.1	22.3	906.6	1180.8	7.9	7.9	0.0	16.4	353.9	700.7
3/24/2017	96.5	744.8	21.6	22.3	900.1	1127.3	7.9	13.4	0.0	14.2	374.5	827.2
3/25/2017	94.4	97.1	21.6	21.9	913.9	919.4	7.9	10.3	0.0	0.0	818.5	822.9
3/26/2017	93.3	94.8	21.6	21.8	913.1	914.6	7.9	7.9	0.0	0.0	819.1	820.2
3/27/2017	93.0	745.5	21.6	22.7	900.1	1200.3	7.9	8.3	0.0	0.0	264.7	820.0
3/28/2017	126.3	745.5	22.0	22.9	899.8	1200.0	7.9	7.9	0.0	0.0	267.5	788.3
3/29/2017	-6.2	746.5	21.2	22.5	898.6	1200.9	7.9	7.9	0.0	69.4	324.5	994.4
3/30/2017	-5.6	746.3	21.1	22.9	867.9	1200.1	7.9	7.9	0.0	62.2	249.3	984.1
3/31/2017	105.4	745.2	21.5	22.9	899.3	1200.0	7.9	7.9	0.0	29.5	255.8	889.7

Circle Chart Index

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

Chart Recorder #1

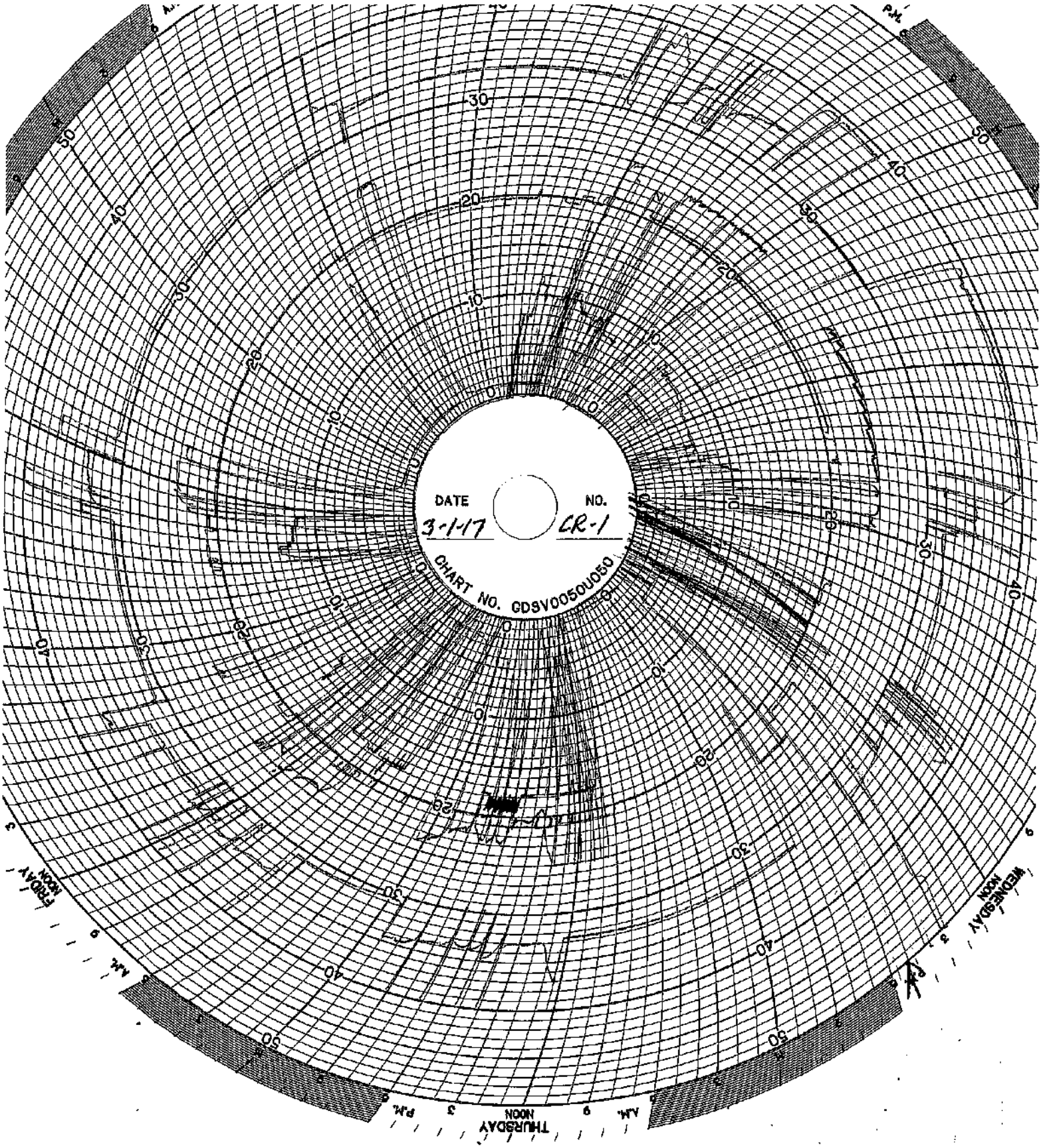
- Channel #1
  - **Blue Pen** - Well 1 Injection Pressure (chart value x 30)
- Channel #2
  - **Red Pen** – Well 1 Annulus Pressure (chart value x 30)
- Channel #3
  - **Green Pen** – Well 1 Flow Rate (chart value x 4)
- Channel #4
  - **Black Pen** – Well 1 Annulus Tank Level (chart value x 0)

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 x 30)
- Channel #2
  - **Red Pen** – Well 1 Monthly Volume (chart value x 30)
- Channel #3
  - **Green Pen** – Well 2 Monthly Volume (chart value x 4)
- Channel #4
  - **Black Pen** – Temperature (chart value x 0)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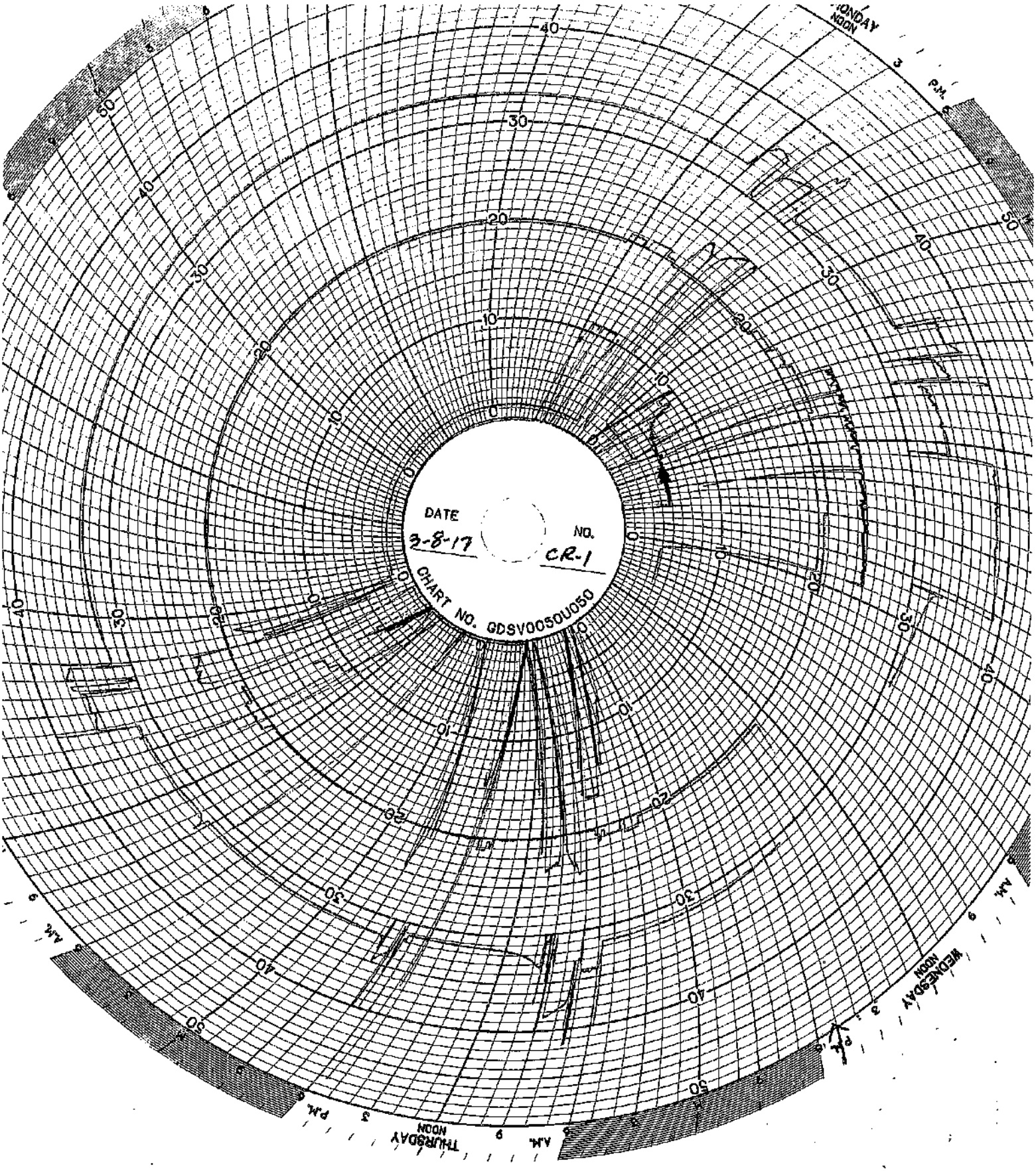
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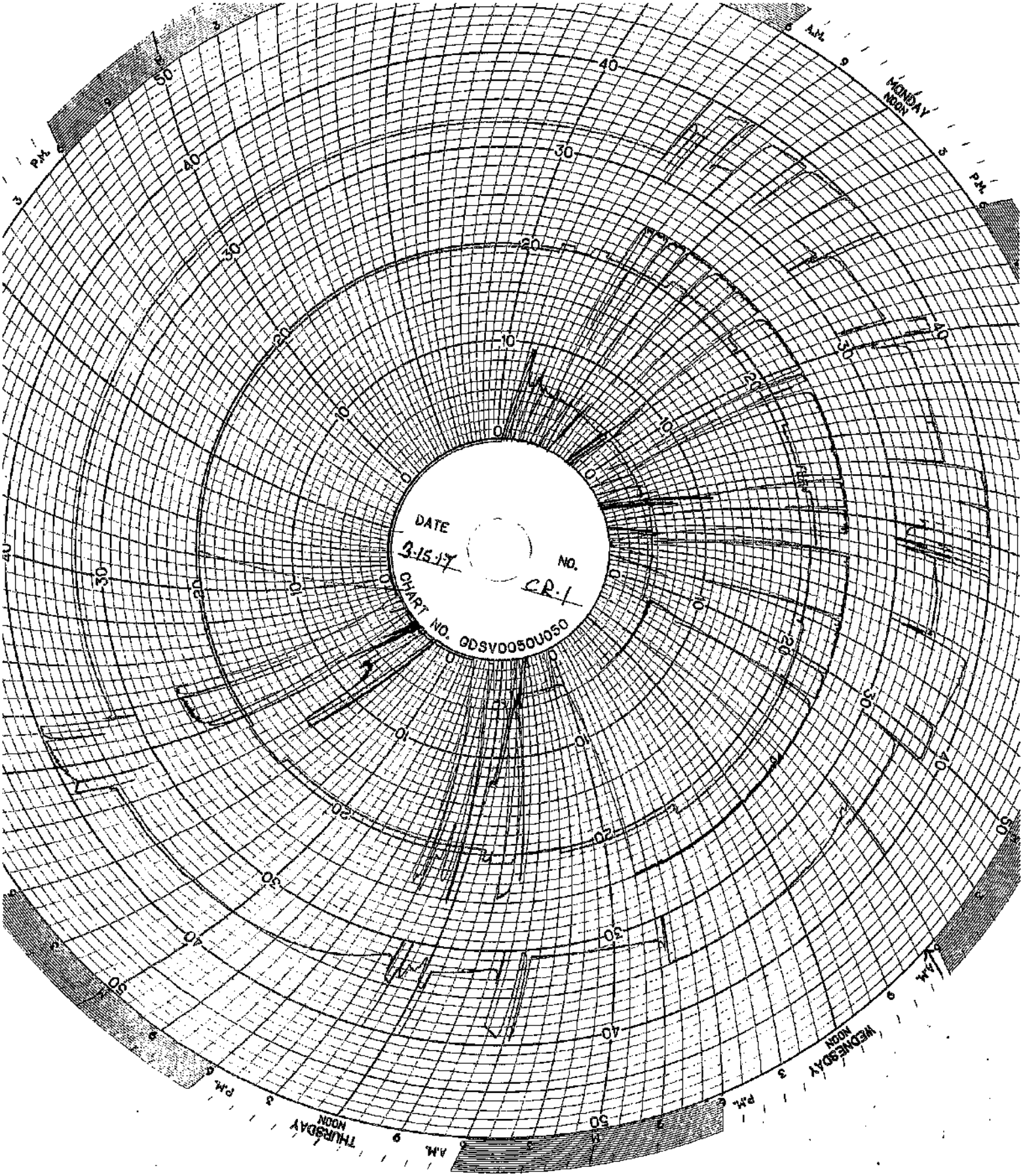
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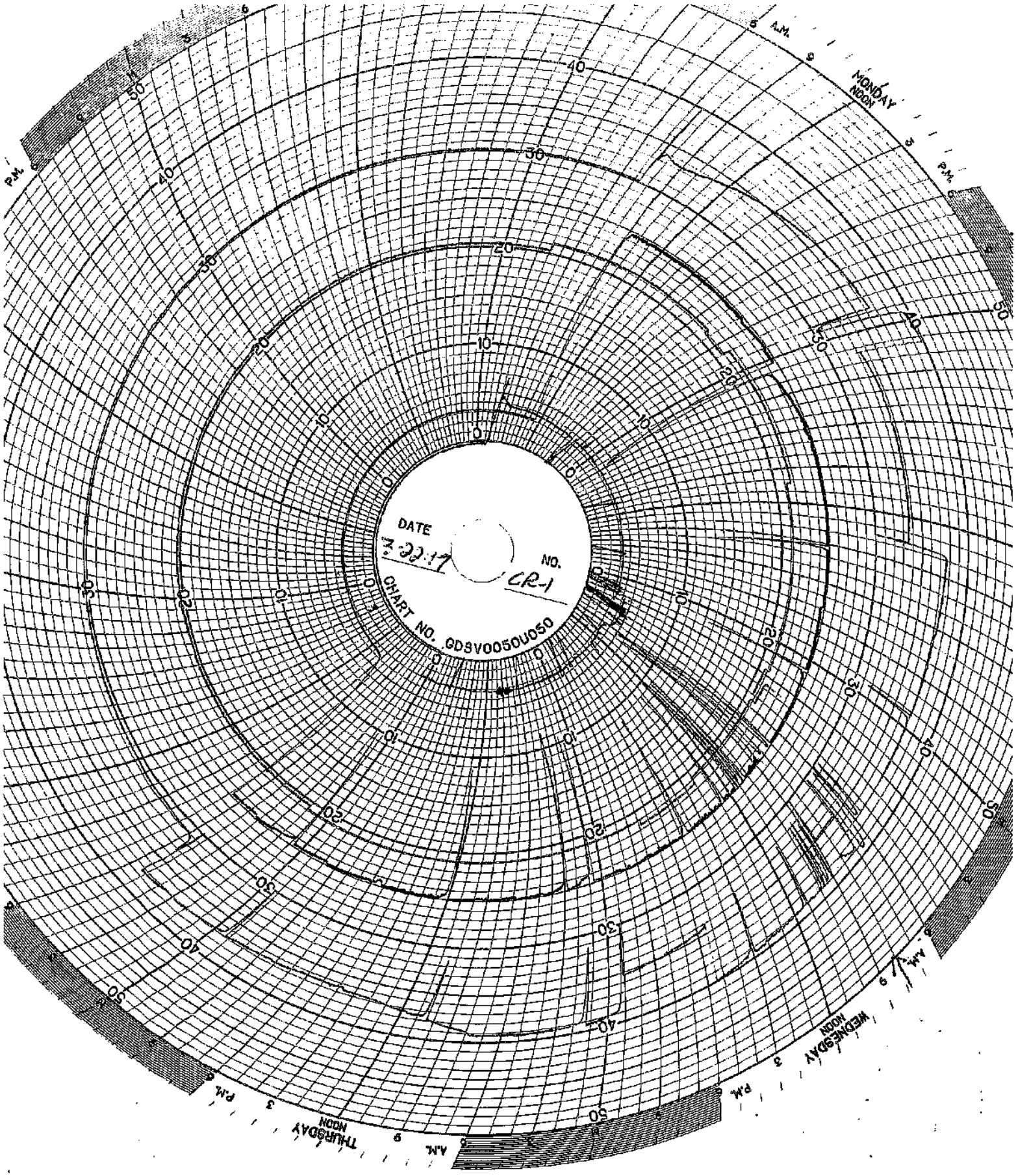
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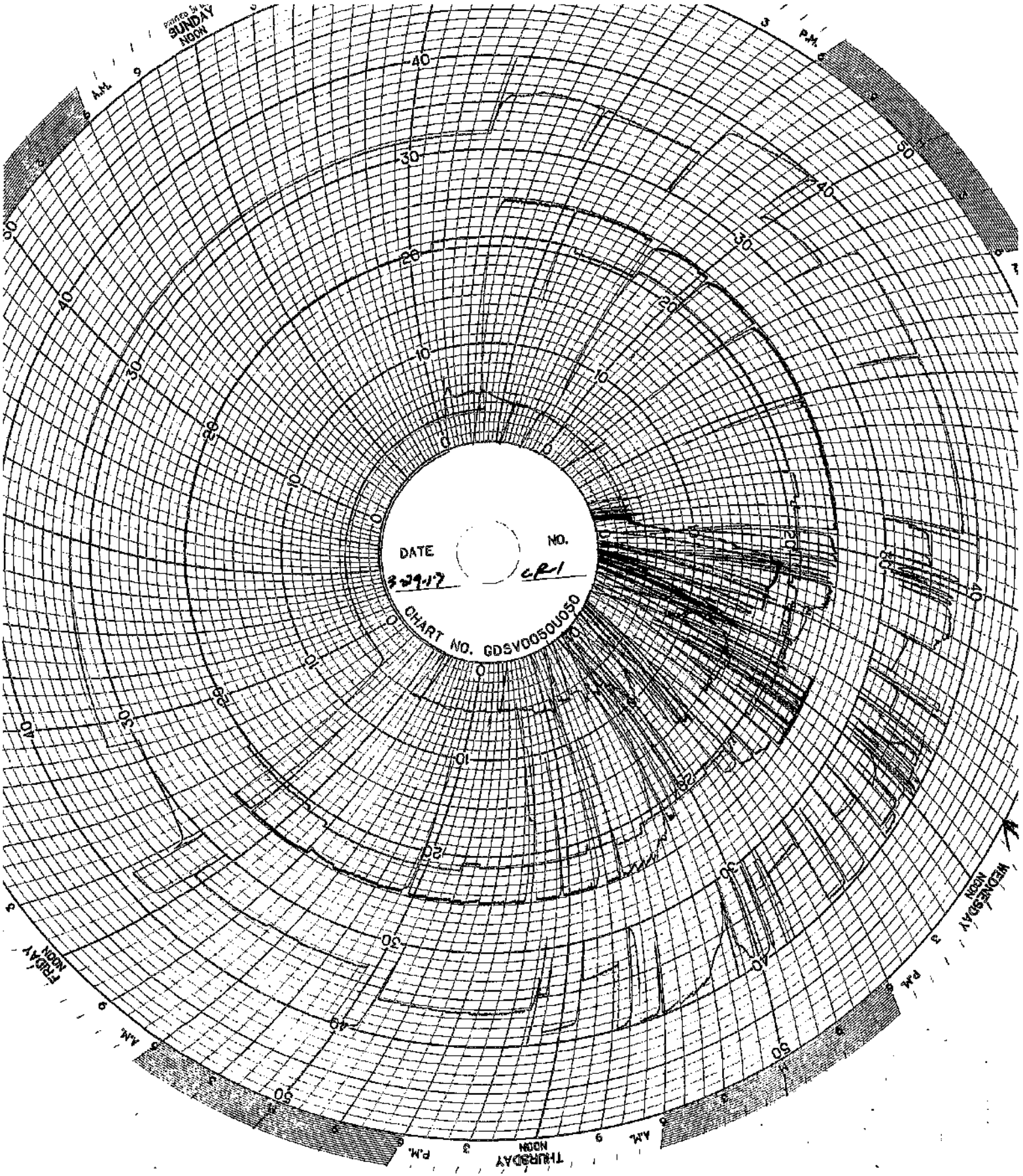
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WELL 2 DATA

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)
3/1/2017	98.7	108.2	24.3	24.8	671.1	701.9	4.7	8.5	0.0	35.0	572.1	597.2
3/2/2017	73.1	749.2	24.3	24.9	668.8	973.0	5.1	10.6	0.0	23.3	200.1	609.1
3/3/2017	77.2	81.3	24.2	24.9	685.5	688.5	7.9	7.9	0.0	7.1	606.2	609.7
3/4/2017	65.2	501.0	24.2	24.9	681.9	686.1	7.9	7.9	0.0	14.2	184.2	619.3
3/5/2017	74.5	76.3	24.2	24.8	679.2	682.4	7.9	7.9	0.0	9.3	604.4	606.2
3/6/2017	73.7	77.5	24.3	24.8	678.0	679.8	4.9	13.4	0.0	0.0	601.0	605.1
3/7/2017	75.7	78.5	24.6	24.8	676.0	679.1	7.9	14.0	0.0	0.0	597.5	602.0
3/8/2017	74.7	78.5	24.6	24.7	671.6	676.6	7.9	7.9	0.0	0.0	596.9	598.2
3/9/2017	73.0	78.0	24.4	25.0	668.5	672.3	5.9	11.3	0.0	0.0	591.8	597.6
3/10/2017	-10.0	74.0	24.3	25.1	619.8	674.9	6.5	14.0	0.0	39.3	591.8	669.0
3/11/2017	-3.7	785.5	22.7	24.6	661.8	1070.5	6.1	7.9	0.0	0.0	105.6	1057.3
3/12/2017	-2.0	-1.1	22.1	22.3	900.0	969.2	7.9	8.0	0.0	0.0	902.0	970.3
3/13/2017	-2.1	-1.4	22.3	23.0	862.5	909.2	7.9	8.0	0.0	0.0	864.1	911.3
3/14/2017	-1.7	-1.1	22.5	23.2	826.7	863.1	7.9	7.9	0.0	0.0	827.9	864.7
3/15/2017	-1.4	-1.0	22.5	23.1	798.6	827.3	7.9	7.9	0.0	0.0	799.9	828.5
3/16/2017	-1.4	734.5	15.6	23.1	695.3	1090.3	5.7	14.0	0.0	74.1	284.9	800.6
3/17/2017	-1.2	749.2	22.5	22.8	619.2	1091.0	4.5	14.0	0.0	31.4	174.8	752.2
3/18/2017	-10.0	741.9	22.2	22.8	640.4	959.5	3.0	6.0	0.0	0.0	216.4	754.2
3/19/2017	-10.0	-10.0	22.2	22.9	740.1	745.1	3.2	5.7	0.0	0.0	750.0	755.1
3/20/2017	-10.0	700.0	22.4	22.9	737.7	1162.1	3.4	13.1	0.0	124.2	328.8	1014.2
3/21/2017	4.7	55.9	21.6	23.3	794.4	1213.4	7.9	7.9	0.0	96.7	766.7	1207.8
3/22/2017	73.0	743.0	22.8	23.5	752.9	1034.5	7.9	7.9	0.0	39.3	748.1	1030.0
3/23/2017	73.0	743.0	22.9	23.3	776.2	1039.1	7.9	7.9	0.0	31.2	771.7	1034.6
3/24/2017	74.0	740.0	22.9	23.5	666.1	981.8	7.9	13.4	0.0	0.0	661.6	977.3
3/25/2017	73.0	76.0	22.9	23.3	652.3	666.7	7.9	10.3	0.0	0.0	647.8	662.2
3/26/2017	71.0	73.0	22.9	23.3	646.6	652.9	7.9	7.9	0.0	0.0	642.1	648.4
3/27/2017	77.0	740.0	22.9	23.5	645.2	1032.5	7.9	8.3	0.0	0.0	640.7	1028.0
3/28/2017	0.0	740.0	23.1	23.3	764.5	1038.9	7.9	7.9	0.0	9.9	760.0	1034.4
3/29/2017	0.0	740.0	23.0	23.5	629.0	1008.2	7.9	7.9	0.0	25.6	624.5	1003.7
3/30/2017	66.0	740.0	23.1	24.5	607.6	1023.3	7.9	7.9	0.0	26.1	593.6	1018.8
3/31/2017	70.0	740.0	22.9	23.3	687.0	1039.0	7.9	7.9	0.0	11.5	682.5	1034.5

Circle Chart Index

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

Chart Recorder #1

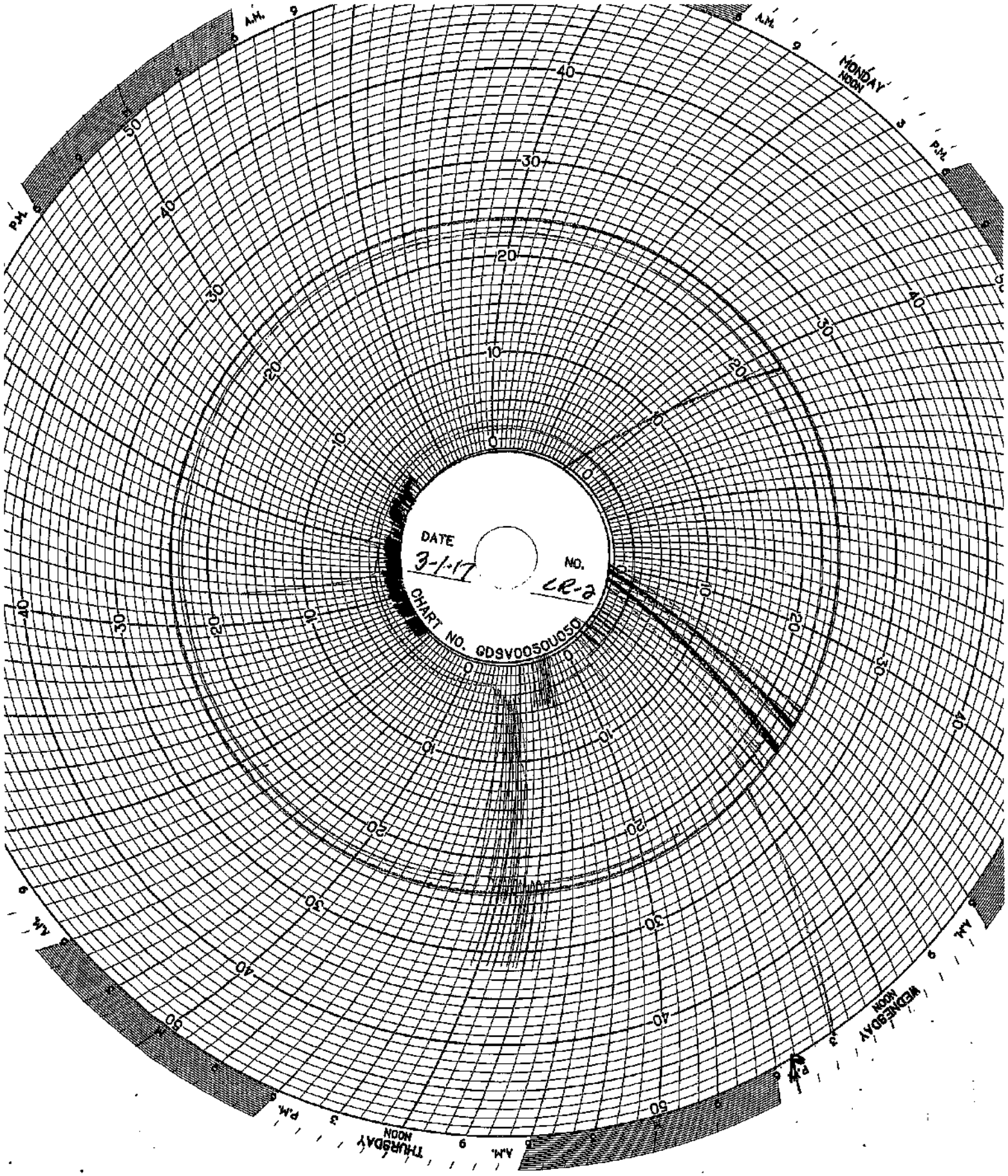
- Channel #1
  - **Blue Pen** - Well 1 Injection Pressure (chart value x 30)
- Channel #2
  - **Red Pen** – Well 1 Annulus Pressure (chart value x 30)
- Channel #3
  - **Green Pen** – Well 1 Flow Rate (chart value x 4)
- Channel #4
  - **Black Pen** – Well 1 Annulus Tank Level (chart value x 0)

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 x 30)
- Channel #2
  - **Red Pen** – Well 1 Monthly Volume (chart value x 30)
- Channel #3
  - **Green Pen** – Well 2 Monthly Volume (chart value x 4)
- Channel #4
  - **Black Pen** – Temperature (chart value x 0)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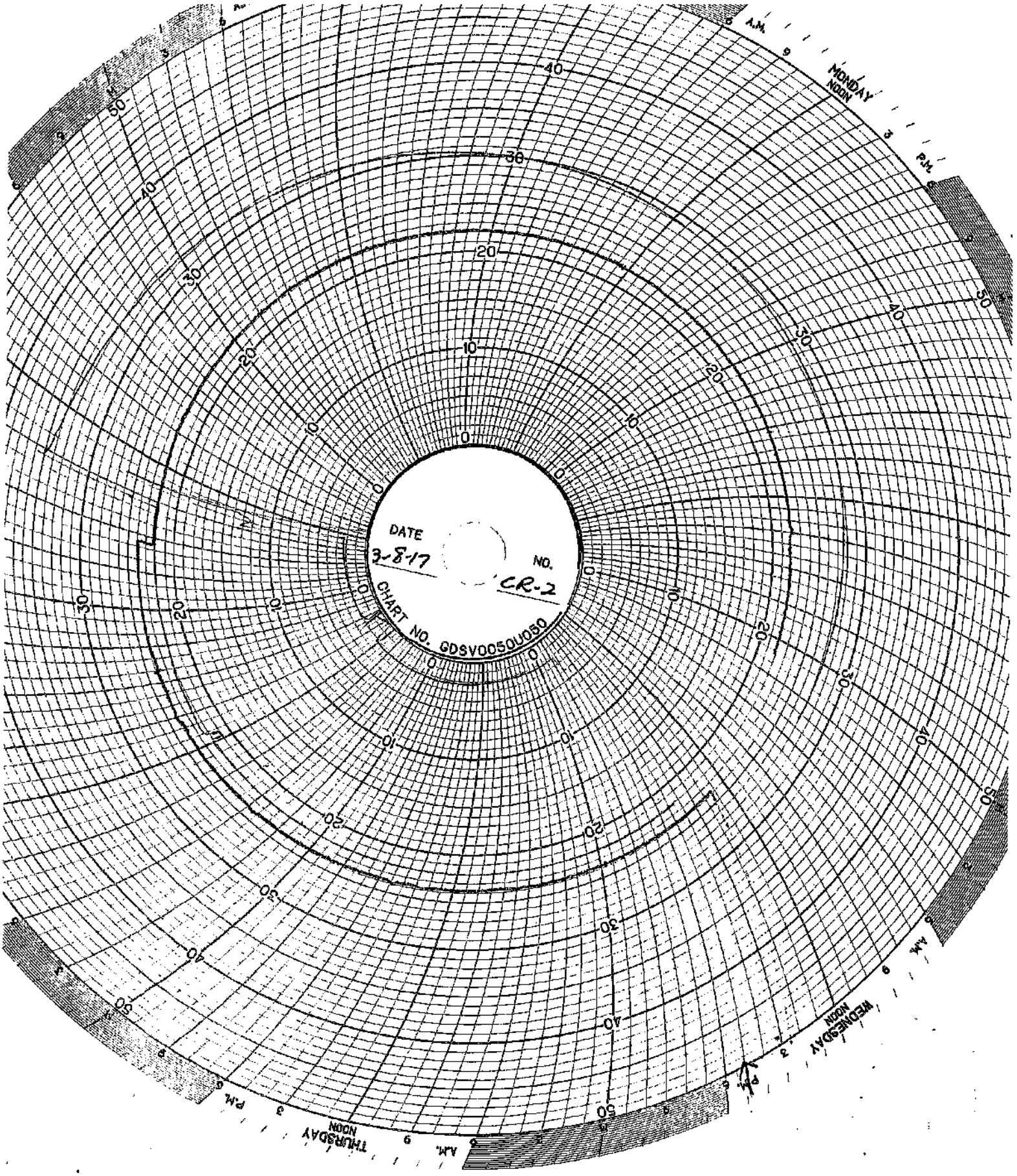
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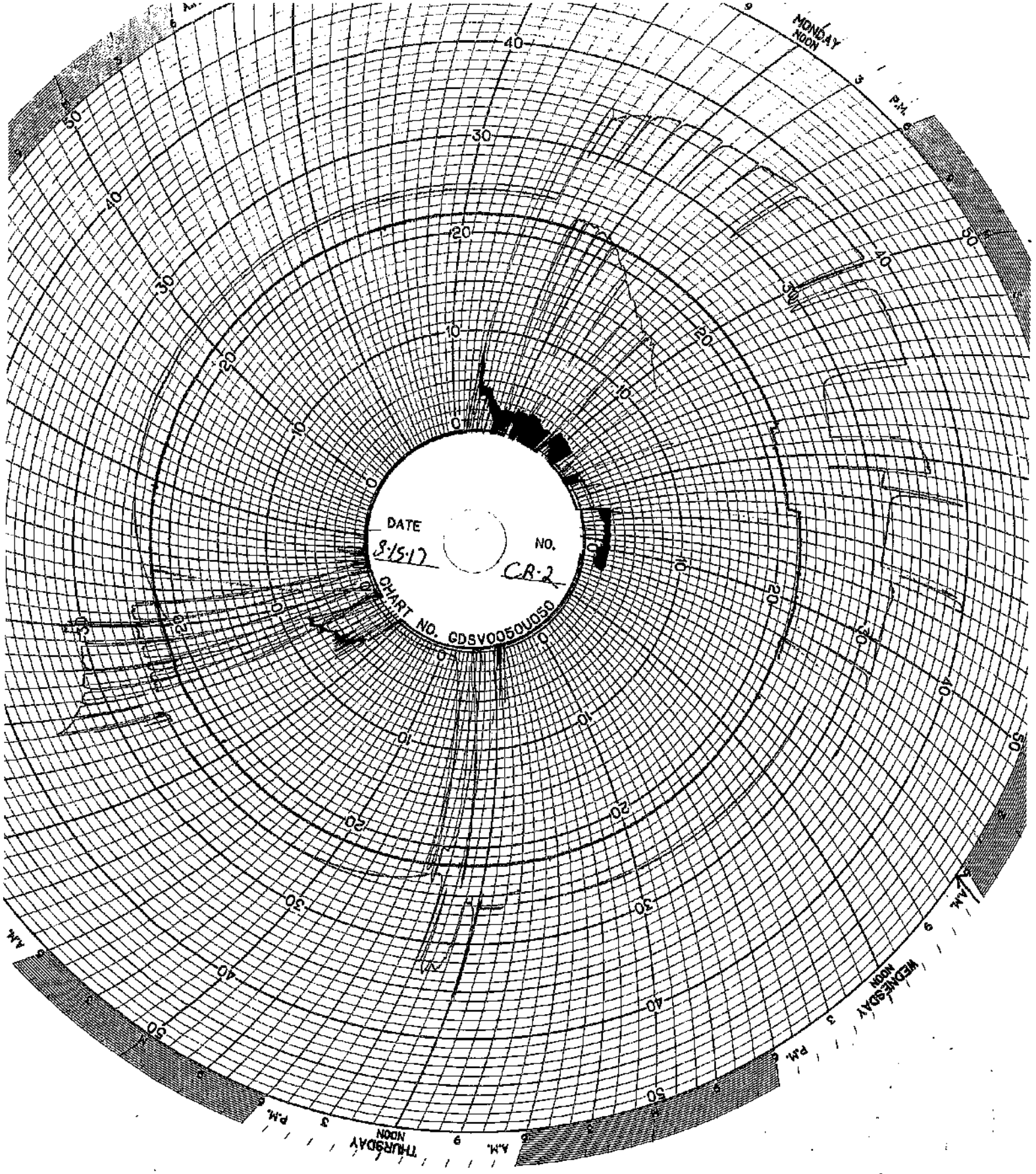
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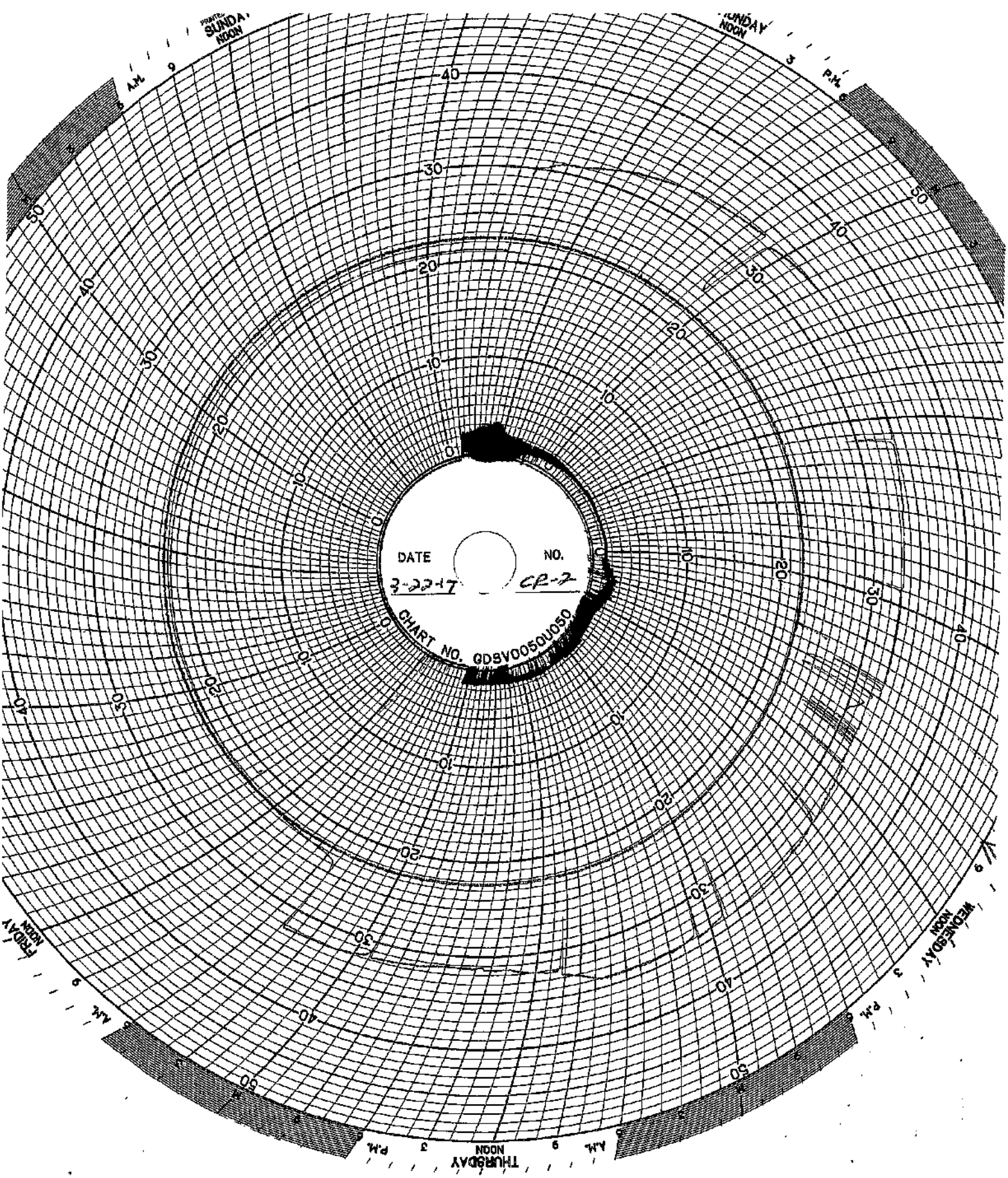
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FRIDAY NOON
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P.M.
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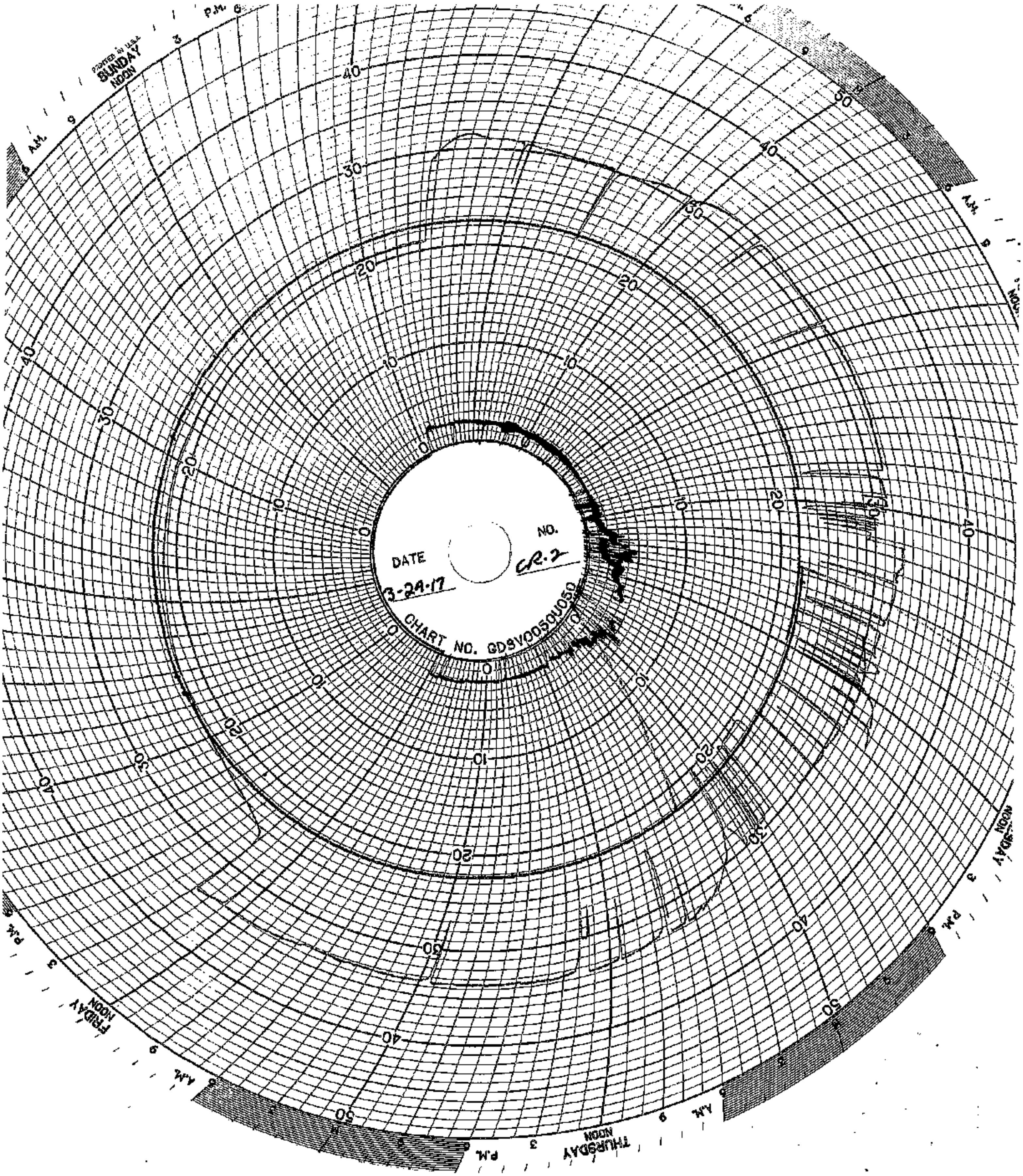
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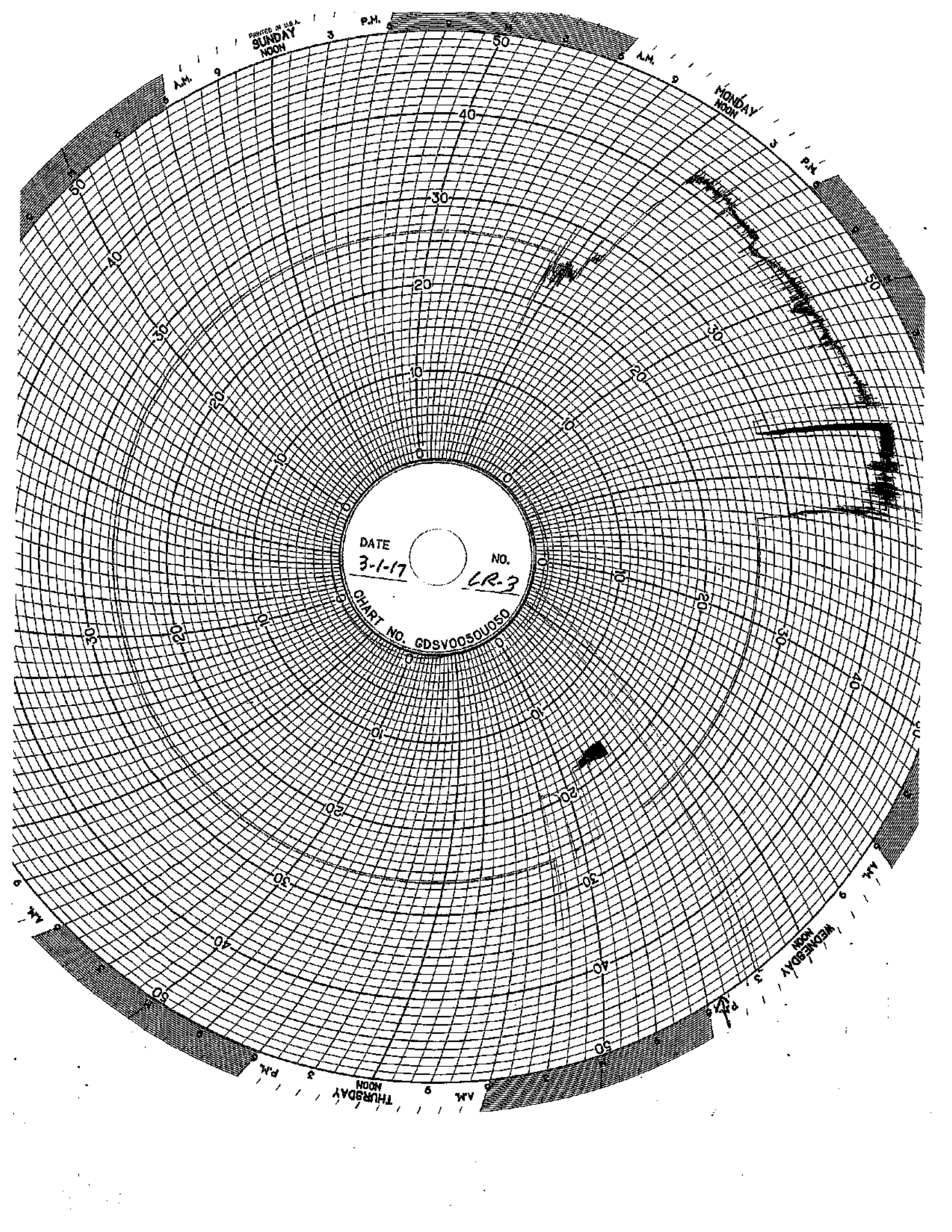
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3-1-17
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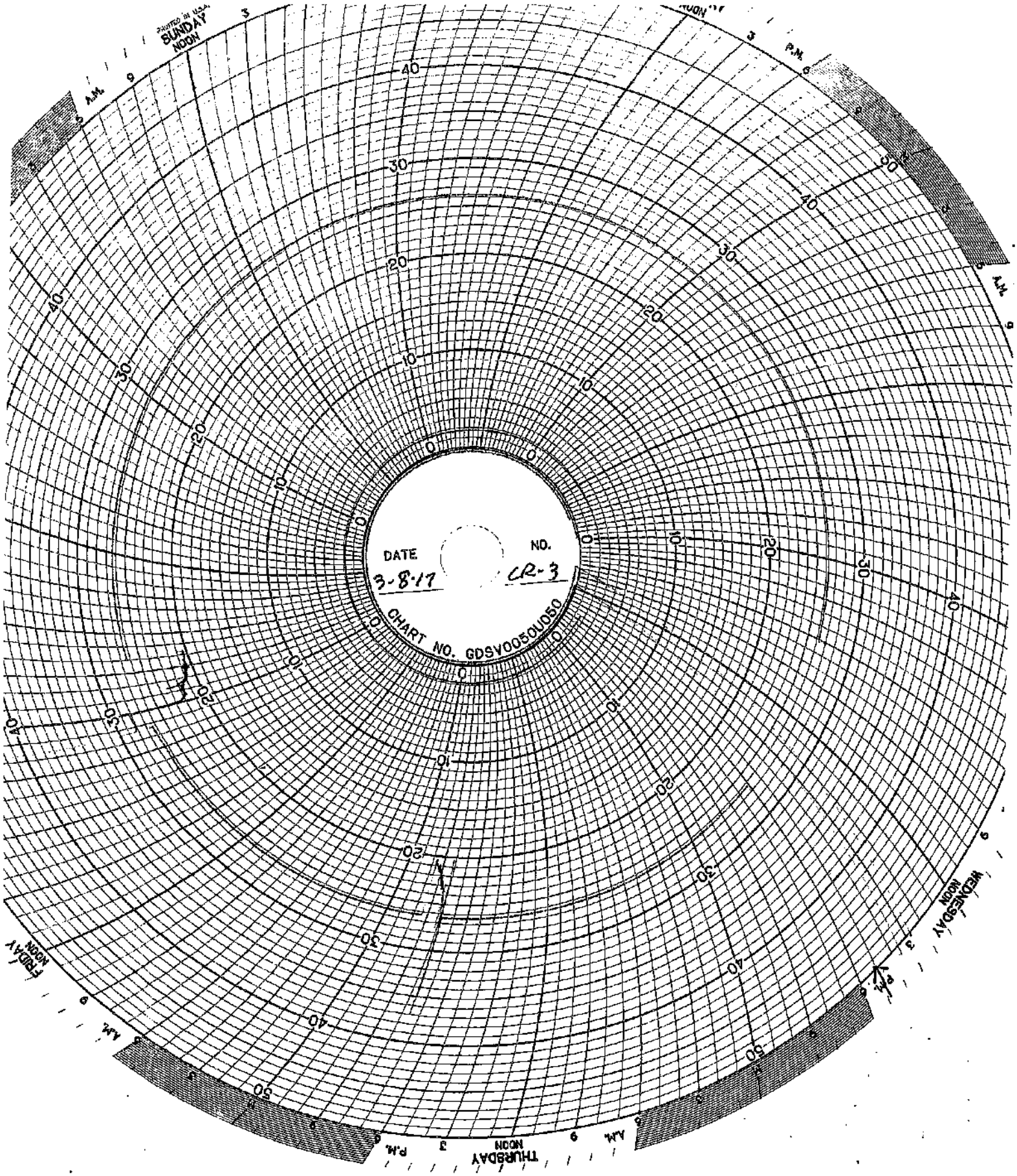
CHART NO. GDSV005DU050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3-8-17
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CHART NO. GDSV0050U050

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3-15-17
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CR-3
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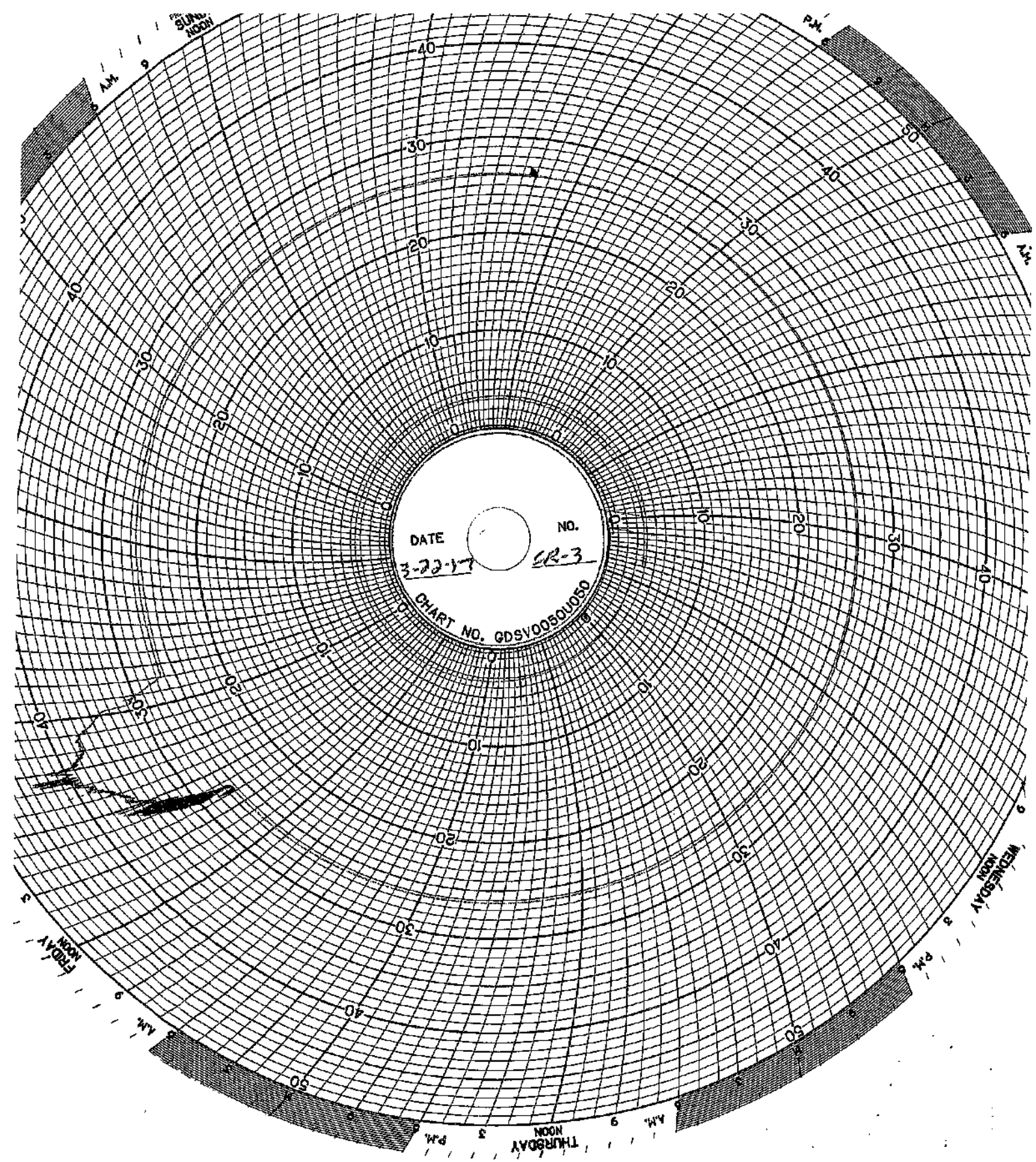
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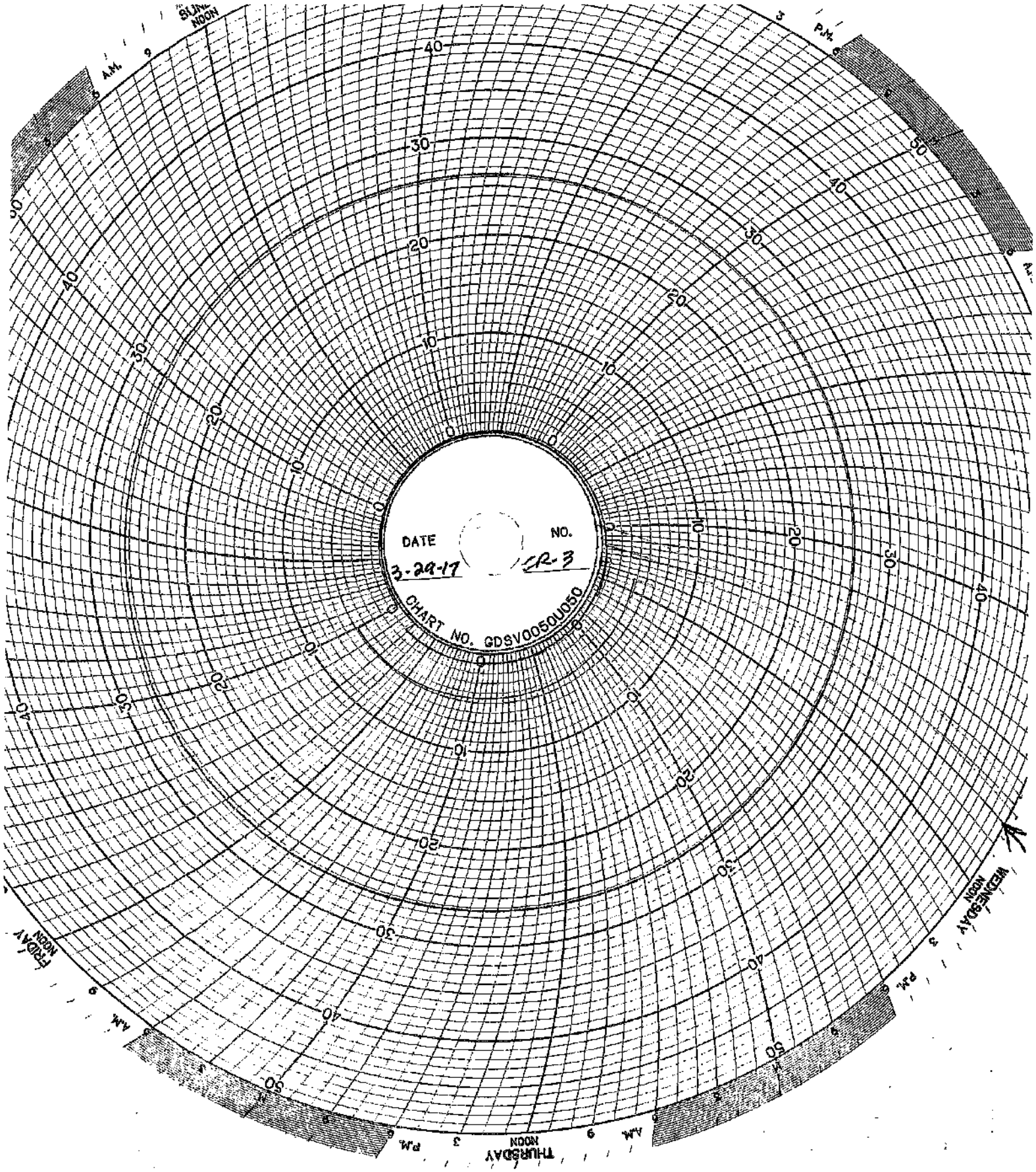
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DATE
NO.
3-29-17
CR-3
CHART NO. GDSV0050U050
FRIDAY
NOON
THURSDAY
NOON
WEDNESDAY
NOON

MAINTENANCE LOG

UIC Monthly Maintenance Log

	No maintenance preformed in March

CORROSION MONITORING

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.

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	

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	

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

March 24, 2017

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. There has been minimal affect to this coupon.

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

The coupon had experienced substantial corrosion since last month. The coupon is seriously pitted and corroded. Continuous affect takes place with this coupon.

GHESQUIERE PLASTIC TESTING, INC.

20460 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3685
FAX (313) 885-1771

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/kni

GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

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

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

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

October 2, 2014

• TEST REPORT •

PN 118325

PO Attn:John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: _____
Melissa Martin
Sr. Project Technician

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

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

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

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

	Results
Barcol Hardness, Instant	97

Prepared By: _____
Melissa Martin
Sr. Project Technician

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

sf

October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

	Results
Barcol Hardness, Instant	96

Prepared By: Melissa Martin
Sr. Project Technician

Approved By: Scott W. Yates
Plastics Testing Assistant Manager

to

December 12, 2016

▪TEST REPORT▪

PN 132662

PO

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: Melissa Martin
Senior Project Technician

Approved By: Jim Drummond
Physical Testing, Manager

Rev 041616

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.

INJECTION
FINGERPRINTS

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 2660	3/2/17
Receiving ID#	I03021703
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	PP

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	9.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	192.4 mS		
% Solids	9.6		
Turbidity	Yes No		
Color (visual).			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 1600	3/2/17
Receiving ID#	ID302170 2
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	7.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63°F		
Conductivity	151.5 mS		
% Solids	7.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 9/004	03-02-17
Receiving ID#	EO302170 1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	33.3 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	53° F		
Conductivity	> 400.0 ms		
% Solids	33.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 1100A	03-03-17
Receiving ID#	E0303170Z
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	2.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	2.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No.		
Temperature	64°F		
Conductivity	53.6 mS		
% Solids	2.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 6304	03-03-17
Receiving ID#	I03031701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	6.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63° F		
Conductivity	133.9 mS		
% Solids	6.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 9:00 Am	3/4/17
Receiving ID#	E03041701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	2.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	43 2.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	85.2		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2.0		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11308 — 03-05-17
Receiving ID#	I030517 01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	TE

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	Magnesium	
pH (S.U.)	2.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	4.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	87.4 mS		
% Solids	4.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 1:30p	3-6-17
Receiving ID#	E030617O1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	5.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.52
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65 °F		
Conductivity	30.7		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 2000	3/6/17
Receiving ID#	I030617B2
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.57
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	28.9 mS		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 6:40 am	3-7-17
Receiving ID#	ID3071701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH
Sampled by	JH

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.6 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	32.4 mS		
% Solids	1.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/7/17
Receiving ID#	E0307702
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	15:30
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	34.1 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

COPY

Date	6:30AM 03-09-17
Receiving ID#	E03091701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	12.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	255.6 mS		
% Solids	12.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 10:10 am	3-10-17
Receiving ID#	I03101701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	

COPY

Analytical Information			
Compatible? (RT#)	~~Yes~~ No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	10.4 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	208.7 mS		
% Solids	10.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3-13-17
Receiving ID#	I03131701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	16:35
Time out	
Received by	J.H.
Sampled by	PP

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	7.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	143.9 ms		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	16:30A 03-14-17
Receiving ID#	I03141701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	JH
Sampled by	TE

COPY

LAB INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	66°F		
Conductivity	35.2 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

COPY

RECEIVING INFORMATION	
Date	3/14/17
Receiving ID#	I03141702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:50
Time out	
Received by	J.H.
Sampled by	

LABORATORY ANALYSIS			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	33.2 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING FORM	
Date 0630	3/15/17
Receiving ID#	I03151701
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T.E.

COPY

LAB ANALYSIS			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	1.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	33.8 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/15/17
Receiving ID#	I03151702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:00
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	35.5 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 8:00 AM	03-16-17
Receiving ID#	10316701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	0.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	59°F		
Conductivity	2.2mS		
% Solids	0.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date / 11:30 am	3/16/17
Receiving ID#	I03161701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	11:40
Time out	
Received by	J.H.
Sampled by	

COPY

LAB ANALYSIS		FIELD ANALYSIS	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	30.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63°F		
Conductivity	> 400.0 mS		
% Solids	30.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 2 11:51	03-17-17
Receiving ID#	I0317170 1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	2.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63°F		
Conductivity	96.4 ms		
% Solids	4.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

[illegible]	
Date	3/17/17
Receiving ID#	I03171702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:20
Time out	
Received by	
Sampled by	(signature)

COPY

[illegible]			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.17	TDS	33.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	50°F		
Conductivity	>400.0 mS		
% Solids	33.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	(signature)		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/20/17
Receiving ID#	I03201701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8:00
Time out	
Received by	J.H
Sampled by	[illegible]

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.01	TDS	1.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	22.3 mS		
% Solids	1.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[illegible]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/20/17
Receiving ID#	I03201702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	14:30
Time out	
Received by	J.H.
Sampled by	JH

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.57
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	30.9 mS		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:10 AM 03-21-17
Receiving ID#	I0321-1701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	33.6 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/21/17
Receiving ID#	I0321702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:45
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.57
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	29.5 mS		
% Solids	1.5		
Turbidity	(Yes) No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 1200AM	03-22-17
Receiving ID#	I-032217-01
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

ANALYTICAL			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	31.3 mS		
% Solids	1.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

COPY

Date	3/22/17
Receiving ID#	I 03221702
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:40
Time out	
Received by	J.H.
Sampled by	PP

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.01	TDS	1.07
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	2.06 mS		
% Solids	1.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8:40 PM 03-22-17
Receiving ID#	I032217C3
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	TE

COPY

ANALYSIS			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.52
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No.		
Temperature	67°F		
Conductivity	30.2 ms		
% Solids	1.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date 2:00AM	03-23-17
Receiving ID#	1032317C1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	TE

COPY

LAB INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No.		
Temperature	66°F		
Conductivity	32.8 ms		
% Solids	1.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 10 13:15	032317
Receiving ID#	I0323170Z
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65°F		
Conductivity	34.7 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 0130	3/24/17
Receiving ID#	T032417701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	P.P

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	7.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	67°F		
Conductivity	36.1 ms		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3-27-17
Receiving ID#	E0327701
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	6:30
Time out	
Received by	J.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	37.1 ms		
% Solids	1.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 9:45 PM	03-27-17
Receiving ID#	10327102
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No.		
Temperature	65°F		
Conductivity	33.8 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:00AM 03-28-17
Receiving ID#	20328170 1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65°F		
Conductivity	33.9 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/28/17
Receiving ID#	L0328170Z
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:45
Time out	
Received by	S.H.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76° F		
Conductivity	35.4 ms		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	03 29 17
Receiving ID#	10032917D
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:01 Am
Time out	
Received by	J.H.
Sampled by	A.A.

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	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.89
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	36.5 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-29-17
Receiving ID#	I0329702
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:00
Time out	
Received by	J.H.
Sampled by	

COPY

ANALYTICAL			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	12.9%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	258.6 mS		
% Solids	12.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date @ 16:30	032917
Receiving ID#	#03291703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	25.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	> 400.0mS		
% Solids	25.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION		
Date	11:00 pm	3/29/17
Receiving ID#		T03291704
Manifest# Line:		
Land Ban Cert Included		Yes No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by		SH
Sampled by		AA.

COPY

WASTE INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	5.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	12.7%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	252.2 mS		
% Solids	12.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION		
Date	0427	3/30/17
Receiving ID#		I 03301701
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by		S.H.
Sampled by		P.F

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	Magnesium	
pH (S.U.)	7.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.82
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	34.9 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3-30-17
Receiving ID#	I03301702
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	6:30
Time out	
Received by	JH.
Sampled by	

COPY

LABORATORY INFORMATION			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.82
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	36.6 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	3/30/17
Receiving ID#	L0330703
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	1230
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		ANALYTICAL RESULTS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	73°F		
Conductivity	35.0 mS		
% Solids	1.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 8:16 AM	03/30/17
Receiving ID#	I0330174
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	TE

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.79
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	34.5 ms		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 11:16 AM	03/31/17
Receiving ID#	I033170I
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	T.E

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	7.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.7 %
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	35.0 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual).			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date 12/6/00	03/31/17
Receiving ID#	I033111702
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH.
Sampled by	

COPY

Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	7.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	1.79
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	74°		
Conductivity	33.6 mS		
% Solids	1.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	(0.1)		
Radiation Screen (as needed)			
Lab Signature			

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 # 01079

GENERATOR INFORMATION

[redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Hydrochloric Acid Solution

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

By-product from chlorination of organic chemicals

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ■ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ■ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 D007 D022

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	■ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ■ 1.0 – 1.2	acceptable
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	
■ Other Slight Yellow		■ Single Phase	Exact / Other:	03.16.17

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 - NONE **PPM (MUST BE COMPLETED)**

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

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
Water	80	60	%	Sodium	14 PPM	0	%
Hydrochloric Acid	38	20	%	Chromium	12.5 PPM	0	%
Hydrofluoric Acid	2	0	%	Chloroform	0.51 PPM	0	%
Aluminum	1.3 PPM	0	%				%
Barium	1.4 PPM	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	0-12.5 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 ☐
D022 - 0-9.84 PPM

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 100
3. DOT Shipping Name RQ UN3264, WASTE Corrosive liquid, acidic, inorganic, n.o.s. (Hydrochloric acid, Hydrofluoric Acid), 8, PGII Hazard Class 8 UN/NA 3264
PG II ERG 154 Hazardous Constituents for "n.o.s." Hydrochloric acid, Hydrofluoric Acid
4. Method of Shipment: ☒Bulk Tanker ☐Vac truck ☐Rail Car ☐Drums ☐Totes
5. Number of Units to Ship Now: 1 6. Anticipated Volume / Units per Year: 20-50 or ☐ One Time
6. Special Handling Requirements including PPE: See Attached sds

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 Nam[redacted]

Generator's Signatu[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.

[redacted]

SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. 2 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	[redacted]	Date	Time

Summary of Hits

Job Number:
Account:
Project:
Collected: 09/27/16 thru 09/29/16

Lab Sample ID / Analyte	Client Sample ID	Result / Qual	RL	MDL	Units	Method
[redacted]						
Barium		1.4	1.0		mg/l	SW846 6010C
Chromium		12.5	0.10		mg/l	SW846 6010C
[redacted]						
Carbon tetrachloride		[redacted]	100	54	[redacted]	SW846 8260C
Chlorobenzene		38.0 J	100	17	ug/l	SW846 8260C
Chloroethane		13600	100	44	ug/l	SW846 8260C
Chloroform		[redacted]	100	23	[redacted]	SW846 8260C
Chloromethane		201000	2000	1900	ug/l	SW846 8260C
Methylene chloride		45500	4000	2000	ug/l	SW846 8260C
[redacted]						
Chloride		620000	4000		mg/l	EPA 300/SW846 9056A

Report of Analysis

Client Sa[redacted]
Lab Sample ID:
Matrix: LIQ - Liquid, Non-aqueous
Project:

Date Sampled: 09/27/16
Date Received: 09/27/16
Percent Solids: n/a

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	<0.50	D004	5.0	0.50	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Barium	1.4	D005	100	1.0	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Cadmium	<0.050	D006	1.0	0.050	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Chromium	[redacted]	[redacted]	5.0	0.10	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Lead	<0.50	D008	5.0	0.50	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Mercury [4]	<0.0060	D009	0.20	0.0060	mg/l	1	09/30/16	09/30/16	MS	SW846 7470A [1]	SW846 7470A [1]
Selenium	<1.0	D010	1.0	1.0	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Silver	<0.10	D011	5.0	0.10	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA40417
(2) Instrument QC Batch: MA40421
(3) Prep QC Batch: MP96281
(4) Prep QC Batch: MP96299

(4) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261.6/98)

Report of Analysis

Client Sample ID: [redacted]
Lab Sample ID:
Matrix: LIQ - Liquid, Non-aqueous
Method: SW846 8260C
Project:

Date Sampled: 09/29/16
Date Received: 09/29/16
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U209055.D	100	10/05/16	GA	n/a	n/a	VU9585
Run #2	U209087.D	2000	10/06/16	GA	n/a	n/a	VU9585

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1000	800	ug/l	
71-43-2	Benzene	ND	50	14	ug/l	
75-27-4	Bromodichloromethane	ND	100	65	ug/l	
75-25-2	Bromoform	ND	100	84	ug/l	
74-83-9	Bromomethane	ND	200	45	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	190	ug/l	
75-15-0	Carbon disulfide	ND	200	33	ug/l	
56-23-5	Carbon tetrachloride	166	100	54	ug/l	
108-90-7	Chlorobenzene	43.0	100	17	ug/l	J
75-00-3	Chloroethane	13600	100	44	ug/l	
67-66-3	Chloroform	[redacted]	100	28	ug/l	
74-87-3	Chloromethane	[redacted]	2000	1900	ug/l	
124-48-1	Dibromochloromethane	ND	100	23	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	21	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	89	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	61	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	56	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	100	91	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	83	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	26	ug/l	
100-41-4	Ethylbenzene	ND	100	29	ug/l	
591-78-6	2-Hexanone	ND	500	150	ug/l	
108-10-1	4-Methyl-2-pentanone (MIBK)	ND	500	120	ug/l	
75-09-2	Methylene chloride	[redacted]	4000	2000	ug/l	
100-42-5	Styrene	ND	100	27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	39	ug/l	
127-18-4	Tetrachloroethene	ND	100	23	ug/l	
108-88-3	Toluene	ND	100	28	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	28	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	[redacted]		
Lab Sample ID:			
Matrix:	LIQ - Liquid, Non-aqueous	Date Sampled:	09/20/16
Method:	SW846 8260C	Date Received:	09/29/16
Project:		Percent Solids:	n/a

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	100	26	ug/l	
75-01-4	Vinyl chloride	ND	100	33	ug/l	
1330-20-7	Xylene (total)	ND	100	21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	108%	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	103%	73-122%
2037-26-5	Toluene-D8	99%	100%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	78-117%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

[redacted]

Lab Sample ID:
Matrix: LIQ - Liquid, Non-aqueous
Project:

Date Sampled: 09/28/16
Date Received: 09/28/16
Percent Solids: n/a

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
[redacted]	[redacted]	4000	[redacted]	2000	10/07/16 10:52	JN	EPA 300/SW846 9056A

RL = Reporting Limit

Jordi Labs, LLC

Certificate of Analysis

Jordi Labs
200 Gilbert Street, Mansfield, MA 02048
Ph: 508.966.1301 Fax: 508.339.1689
https://jordilabs.com/

[redacted]

Invoice No.	[redacted]	Date Received	29 JAN 2016
Lab Reference No.	J160706	Date/Time Collected	NA
Scientist	James Woods	Matrix Type	Liquid
Product ID:	Hydrochloric Acid		

Parameter	Test Method	Reporting Limit	Test Result
[redacted]	D-1298	---	[redacted]
pH	S.W. 9040	0.01 pH Units	[redacted]
[redacted]	IEC	<0.1 ppm	[redacted]
Fluoride	IEC	<0.1 ppm	[redacted]
Li	ICP-MS	<0.01 ppm	<0.01 ppm
Be	ICP-MS	<0.01 ppm	<0.01 ppm
B	ICP-MS	<0.01 ppm	0.6 ppm
Na	ICP-MS	<0.01 ppm	14 ppm
Mg	ICP-MS	<0.01 ppm	0.9 ppm
Al	ICP-MS	<0.01 ppm	1.3 ppm
Si	ICP-MS	<0.01 ppm	14 ppm
P	ICP-MS	<0.01 ppm	0.3 ppm
K	ICP-MS	<0.01 ppm	1 ppm
Ca	ICP-MS	<0.01 ppm	4.7 ppm
Sc	ICP-MS	<0.01 ppm	<0.01 ppm
Ti	ICP-MS	<0.01 ppm	0.03 ppm
V	ICP-MS	<0.01 ppm	0.06 ppm
Cr	ICP-MS	<0.01 ppm	[redacted]
Mn	ICP-MS	<0.01 ppm	0.87 ppm
Fe	ICP-MS	<0.01 ppm	46 ppm
Co	ICP-MS	<0.01 ppm	0.15 ppm
Ni	ICP-MS	<0.01 ppm	5.7 ppm
Cu	ICP-MS	<0.01 ppm	0.25 ppm
Zn	ICP-MS	<0.01 ppm	0.15 ppm
Ga	ICP-MS	<0.01 ppm	<0.01 ppm
Ge	ICP-MS	<0.01 ppm	<0.01 ppm
As	ICP-MS	<0.01 ppm	0.05 ppm
Se	ICP-MS	<0.01 ppm	<0.01 ppm
Rb	ICP-MS	<0.01 ppm	<0.01 ppm
Sr	ICP-MS	<0.01 ppm	0.02 ppm
Y	ICP-MS	<0.01 ppm	<0.01 ppm
Zr	ICP-MS	<0.01 ppm	<0.01 ppm
Nb	ICP-MS	<0.01 ppm	<0.01 ppm

Jordi Labs, LLC

Certificate of Analysis

Jordi Labs
200 Gilbert Street, Mansfield, MA 02048
Ph: 508.966.1301 Fax: 508.339.1639
https://jordilabs.com/

[redacted]

Mo	ICP-MS	<0.01 ppm	1.6 ppm
Ru	ICP-MS	<0.01 ppm	<0.01 ppm
Rh	ICP-MS	<0.01 ppm	<0.01 ppm
Pd	ICP-MS	<0.01 ppm	<0.01 ppm
Ag	ICP-MS	<0.01 ppm	<0.01 ppm
In	ICP-MS	<0.01 ppm	<0.01 ppm
Sn	ICP-MS	<0.01 ppm	0.02 ppm
Sb	ICP-MS	<0.01 ppm	<0.01 ppm
Te	ICP-MS	<0.01 ppm	<0.01 ppm
Cs	ICP-MS	<0.01 ppm	<0.01 ppm
Ba	ICP-MS	<0.01 ppm	0.26 ppm
La	ICP-MS	<0.01 ppm	<0.01 ppm
Ce	ICP-MS	<0.01 ppm	<0.01 ppm
Pr	ICP-MS	<0.01 ppm	<0.01 ppm
Nd	ICP-MS	<0.01 ppm	<0.01 ppm
Sm	ICP-MS	<0.01 ppm	<0.01 ppm
Eu	ICP-MS	<0.01 ppm	<0.01 ppm
Gd	ICP-MS	<0.01 ppm	<0.01 ppm
Tb	ICP-MS	<0.01 ppm	<0.01 ppm
Dy	ICP-MS	<0.01 ppm	<0.01 ppm
Ho	ICP-MS	<0.01 ppm	<0.01 ppm
Er	ICP-MS	<0.01 ppm	<0.01 ppm
Tm	ICP-MS	<0.01 ppm	<0.01 ppm
Yb	ICP-MS	<0.01 ppm	<0.01 ppm
Lu	ICP-MS	<0.01 ppm	<0.01 ppm
Hf	ICP-MS	<0.01 ppm	<0.01 ppm
Ta	ICP-MS	<0.01 ppm	<0.01 ppm
W	ICP-MS	<0.01 ppm	0.02 ppm
Re	ICP-MS	<0.01 ppm	<0.01 ppm
Os	ICP-MS	<0.01 ppm	<0.01 ppm
Ir	ICP-MS	<0.01 ppm	<0.01 ppm
Pt	ICP-MS	<0.01 ppm	<0.01 ppm
Au	ICP-MS	<0.01 ppm	<0.01 ppm
Hg	ICP-MS	<0.01 ppm	<0.01 ppm
Tl	ICP-MS	<0.01 ppm	<0.01 ppm
[redacted]	ICP-MS	<0.01 ppm	<0.01 ppm
Bi	ICP-MS	<0.01 ppm	<0.01 ppm
Th	ICP-MS	<0.01 ppm	<0.01 ppm
U	ICP-MS	<0.01 ppm	<0.01 ppm

e-Hardcopy 2.0
Automated Report

[redacted]

Technical Report for

[redacted]

SGS Accutest Job Number: JC28485

Sampling Dates: 09/27/16 - 09/29/16

Report to:

[redacted]

Total number of pages in report: 14

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

Nancy Cole
Laboratory Director

Client Service contact: Kelly Patterson 732-329-0200

Certifications: NJ(12129), NY(10883), CA, CT, FL, IL, IN, KS, KY, LA, MA, MD, ME, MN, NC, OH VAP (CL0056), AK (UST-103), AZ (AZ0786), PA, RI, SC, TX, UT, VA, WV, DoD ELAP (L-A-B L2248)

Table of Contents

Sections: 1 2 3 4

Sample Summary

[redacted] Hydrochloric Acid By-Product, [redacted]

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JC28485-1	09/27/16	11:00 BM	09/27/16	LIQ	Liquid, Non-aqueous	[redacted]
JC28485-2	09/29/16	09:29 BM	09/29/16	LIQ	Liquid, Non-aqueous	[redacted]
JC28485-2R	09/29/16	09:29 BM	09/29/16	LIQ	Liquid, Non-aque	[redacted]

2

Summary of Hits

[redacted]

Project: [redacted] Hydrochloric Acid By [redacted]
Collected: 09/27/16 thru 09/29/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
[redacted]						
Barium		[redacted]	1.0		mg/l	SW846 6010C
Chromium		[redacted]	0.10		mg/l	SW846 6010C
[redacted]					ppb	
Carbon tetrachloride		[redacted]	100	54	ug/l	SW846 8260C
Chlorobenzene		[redacted]	100	17	ug/l	SW846 8260C
Chloroethane		[redacted]	100	44	ug/l	SW846 8260C
Chloroform		[redacted]	100	23	ug/l	SW846 8260C
Chloromethane		[redacted]	2000	1900	ug/l	SW846 8260C
Methylene chloride		[redacted]	4000	2000	ug/l	SW846 8260C
[redacted]						
Chloride		[redacted]	4000		mg/l	EPA 300/SW846 9056A

Sample Results

Report of Analysis

Report of Analysis

[redacted]

Matrix: LIQ - Liquid, Non-aqueous
Project: [redacted] Hydrochloric Acid By-Produc[redacted]

Date Sampled: 09/27/16
Date Received: 09/27/16
Percent Solids: n/a

Metals Analysis, TCLP Leachate SW846 1311

Analyte	Result	HW#	MCL	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	[redacted]	D004	5.0	0.50	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Barium	[redacted]	D005	100	1.0	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Cadmium	[redacted]	D006	1.0	0.050	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Chromium	[redacted]	D007	5.0	0.10	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Lead	[redacted]	D008	5.0	0.50	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Mercury [a]	[redacted]	D009	0.20	0.0060	mg/l	1	09/30/16	09/30/16	MS	SW846 7470A [1]	SW846 7470A [4]
Selenium	[redacted]	D010	1.0	1.0	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]
Silver	[redacted]	D011	5.0	0.10	mg/l	1	09/29/16	10/01/16	AB	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA40417
(2) Instrument QC Batch: MA40421
(3) Prep QC Batch: MP96291
(4) Prep QC Batch: MP96299

(a) Elevated sample detection limit due to difficult sample matrix.

RL = Reporting Limit
MCL = Maximum Contamination Level (40 CFR 261 6/96)

Report of Analysis

[redacted]

Matrix:	LIQ - Liquid, Non-aqueous	Date Sampled:	09/29/16
Method:	SW846 8260C	Date Received:	09/29/16
Project:	[redacted] Hydrochloric Acid By-Produ[redacted]	Percent Solids:	n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	U209055.D	100	10/05/16	GA	n/a	n/a	VU9585
Run #2	U209087.D	2000	10/06/16	GA	n/a	n/a	VU9586

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	1000	500	ug/l	
71-43-2	Benzene	ND	50	14	ug/l	
75-27-4	Bromodichloromethane	ND	100	55	ug/l	
75-25-2	Bromoform	ND	100	34	ug/l	
74-83-9	Bromomethane	ND	200	46	ug/l	
78-93-3	2-Butanone (MEK)	ND	1000	190	ug/l	
75-15-0	Carbon disulfide	ND	200	33	ug/l	
56-23-5	Carbon tetrachloride	ND	100	54	ug/l	
108-90-7	Chlorobenzene	17	100	17	ug/l	J
75-00-3	Chloroethane	ND	100	44	ug/l	
67-66-3	Chloroform	ND	100	23	ug/l	
74-87-3	Chloromethane	ND	2000	1900	ug/l	
124-48-1	Dibromochloromethane	ND	100	23	ug/l	
75-34-3	1,1-Dichloroethane	ND	100	21	ug/l	
107-06-2	1,2-Dichloroethane	ND	100	39	ug/l	
75-35-4	1,1-Dichloroethene	ND	100	20	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	100	31	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	100	36	ug/l	
540-59-0	1,2-Dichloroethene (total)	ND	100	31	ug/l	
78-87-5	1,2-Dichloropropane	ND	100	33	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	100	19	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	100	26	ug/l	
100-41-4	Ethylbenzene	ND	100	20	ug/l	
591-78-6	2-Hexanone	ND	500	150	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	500	120	ug/l	
75-09-2	Methylene chloride	4500	4000	2000	ug/l	
100-42-5	Styrene	ND	100	27	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	100	39	ug/l	
127-18-4	Tetrachloroethene	ND	100	23	ug/l	
108-88-3	Toluene	ND	100	23	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	100	22	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	100	28	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

[redacted]

Matrix:	LIQ - Liquid, Non-aqueous	Date Sampled:	09/28/16
Method:	SW846 8260C	Date Received:	09/29/16
Project:	[redacted]Hydrochloric Acid By-Produ[redacted]	Percent Solids:	n/a

VOA TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
79-01-6	Trichloroethene	ND	100	26	ug/l	
75-01-4	Vinyl chloride	ND	100	33	ug/l	
1330-20-7	Xylene (total)	ND	100	21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	109%	108%	76-120%
17060-07-0	1,2-Dichloroethane-D4	101%	103%	73-122%
2037-26-5	Toluene-D8	99%	100%	84-119%
460-00-4	4-Bromofluorobenzene	105%	105%	78-117%

(a) Result is from Run# 2

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

[redacted]

Matrix: LIQ - Liquid, Non-aqueous
Date Sampled: 09/29/16
Date Received: 09/29/16
Percent Solids: n/a

Project: [redacted] Hydrochloric Acid By-Pr[redacted]

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chloride	[redacted]	4000	mg/l	2000	10/07/16 10:52	JN	EPA 300/SW846 9056A

RL = Reporting Limit

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SGS ACCUTEST LIQ

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1 PN

SGS Accutest Job # JC28485

[redacted]

Project Name: [redacted] Hydrochloric Acid By-Product

Billing Information (if different from Report to)
Company Name: Same As Report To

Sample ID	Date	Time	Sampled By	Matrix	# of bottles	TCLPM	V8260TCL	LAB USE ONLY
[redacted]	[illegible]	[illegible]	BMS	LIQ	1	X	X	15G

Turnaround Time (Business days)

[redacted]

Data Deliverable Information

Commercial "A" (Level 1) / Commercial "B" (Level 2) / FULLT1 (Level 3+4) / NJ Reduced / Commercial "C" / NYASP Category A / NYASP Category B / State Forms / EDD Format / Other

Comments / Special Instructions

INITIAL ASSESSMENT [signature]

LABEL VERIFICATION [signature]

[redacted]

Cooler Temp. 0.4°C PD

JC28485: Chain of Custody
Page 1 of 4

SGS Accutest Sample Receipt Summary

[redacted]

Date / Time Received: 9/27/2018 5:30:00 PM Delivery Method: Accutest Courier Airbill #s:

Cooler Temps (Raw Measured) °C: Cooler 1: (0.4);

Cooler Temps (Corrected) °C: Cooler 1: (1.3);

Cooler Security	Y or N		Y or N
1. Custody Seals Present:	☑ ☐	3. COC Present:	☑ ☐
2. Custody Seals Intact:	☑ ☐	4. Smpl Dates/Time OK	☑ ☐

Cooler Temperature	Y or N
1. Temp criteria achieved:	☑ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (Bag)
4. No. Coolers:	1

Quality Control Preservation	Y or N	N/A
1. Trip Blank present / cooler:	☐ ☑	☐
2. Trip Blank listed on COC:	☐ ☑	☐
3. Samples preserved properly:	☑ ☐	
4. VOCs headspace free:	☐ ☐	☑

Sample Integrity - Documentation	Y or N
1. Sample labels present on bottles:	☑ ☐
2. Container labeling complete:	☑ ☐
3. Sample container label / COC agree:	☑ ☐

Sample Integrity - Condition	Y or N
1. Sample recvd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

Sample Integrity - Instructions	Y or N	N/A
1. Analysis requested is clear:	☑ ☐	
2. Bottles received for unspecified tests	☐ ☑	
3. Sufficient volume recvd for analysis:	☑ ☐	
4. Compositing instructions clear:	☐ ☐	☑
5. Filtering instructions clear:	☐ ☐	☑

Comments -1 Only rec'd 1x 1000ml bottle of an unknown clear yellow liquid. Did not receive any VOC volume.

4.1.4

JC28485: Chain of Custody
Page 2 of 4

SGS Accutest Sample - Problem Resolution

[redacted]

Response Date: 9/28/2018

Response: Please run for TCLPM. Will receive additional volume 9/29 for VOCs

4.1.4

[redacted]

SGS ACCUTEST

CHAIN OF CUSTODY

SGS Accutest - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

PAGE 1 OF 1

[redacted]

Project Name: Hydrochloric Acid By-Product

Billing Information (if different from Report to)
Company Name: Same as Report To

City State Zip

Attention:

	Date	Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	V8260TCL	LAB USE ONLY
[redacted]	9/29/16			LIQ	2					X				X	1SG
															1SA1

INITIAL ASSESSMENT 313(?)

LABEL VERIFICATION ✓

Turnaround Time (Business days)

[redacted]

RUSH

Other

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- FULLT1 (Level 3+4)
- NJ Reduced
- Commercial "C"
- NJ Data of Known Quality Protocol Reporting
- NYASP Category A
- NYASP Category B
- State Forms
- EDD Format
- Other

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

[redacted]

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession

[redacted]

[redacted]

Page 4 of 4

[redacted]

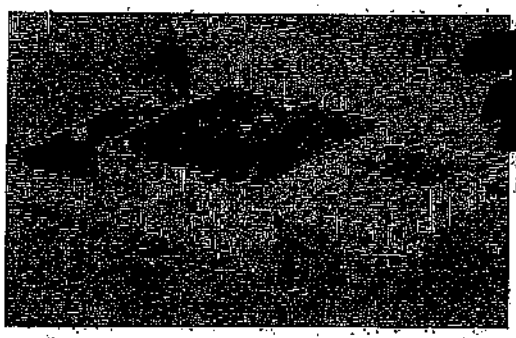
[redacted]

Manufacturing Facilities

TALK TO US

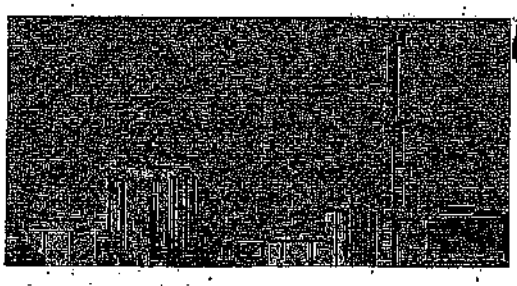
One of the leading global anaesthesia manufactur[redacted] *manufacturing facilities that are spread across the key markets of the USA and India.* The strategic location of these facilities helps in producing high quality products at optimal costs.

Our commitment for quality is resonated in global regulatory approvals that are accredited to our manufacturing plants. Also, global practices and use of high-end technology ensure that our products are at par with international standards.



[redacted] The site comprises a state-of-the-art automated packaging line, stability chambers and a lar warehouse. Functioning 24/7, the facility plays a major role in the sale and distribution of drugs to over 120 countries.

Read more



[redacted]

Set near the town of Hyderabad, this facility is a sprawling 100 acre premises equipped with the best of machinery and production capabilities. Its close proxim to the market helps in quick production of drugs in a cc effective manner.

[redacted]

[redacted]

Read more

[redacted]

» Pharma Solutions
» Critical Care
» Consumer Products
» Imaging
» PhytoMedicines™

» Fund Management
» Structured Investments
» IndUS Growth Partners

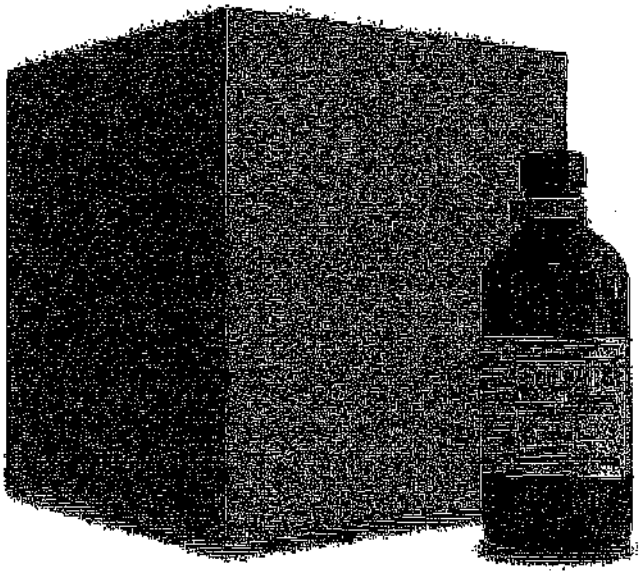
» Decision R[redacted]

PFEL
Sarvajal
Swasthya
Udgam

[redacted]

[redacted]

ADMIRED FOR WORLD CLASS MANUFACTURING CAPABILITIES



THE COLOUR OF TRUST

MAIN MANUFACTURING FACILITIES TESTIMONIALS TALK TO US UPCOMING EVENTS

[redacted]

[redacted]

[redacted]

[redacted]

» Critical Care
» Consumer Products
» Imaging
» PhytoMedicines™

» Fund Management
» Structured Investments
» IndUS Growth Partners

Information Management
» Decision Resources Group

[redacted]

PFEL
Servajal
Swasthya
Udgam

[redacted]

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

Generator Waste Profile

Profile # 01082

GENERATOR INFORMATION

[redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Phosphoric Acid & Water

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

See attached - Cleaning solution used to clean metal parts prior to coating and painting.

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 % ☐ 3-5 % ☐ 1-3 % ☐ > 5%	☐ Multi-Layered ☐ Bi-Layered ☒ Single Phase	☐ <0.8 ☒ 1.0 – 1.2 ☐ 0.8 – 1.0 ☐ 1.3 – 1.4 Exact / Other 1.12	accepted 03.29.17

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	100	81	%				%
Phosphoric Acid	4	1	%				%
Solids	15	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
POB	☐	____ 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 100 #
3. DOT Shipping Name Waste Phosphoric Acid Solution Hazard Class 8 UN/NA 1805
PG III ERG 154 Hazardous Constituents for "n.o.s." ____
4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: ____ 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.

[redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 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.

[redacted]

6. 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

[redacted]

Analytical Laboratory Report

Report ID: 867367.01(01)
Generated on 08/20/2015

[redacted]

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

Phone: (517) 332-0167 FAX: (517) 332-6633

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Bell (bbell@meritlabs.com)

Report Summary

Lab Sample ID(s): 867367.01
Project: Monitoring
Collected Date: 08/06/2015
Submitted Date/Time: 08/06/2015 14:40
Sampled by: Unknown
P.O. #

Table of Contents

Maya Murahak
Technical Director

[redacted]

Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.
Methods may be modified for improved performance.
Results reported on a dry weight basis where applicable.
'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).
40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.
QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.
Full accreditation certificates are available upon request.
Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report Narrative

There is no additional narrative for this analytical report

[redacted]

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9958
DOD ELAP/ISO 17025	#69699
WBENC	#2005110082
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
I	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 reporing 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 reporing limit due to matrix interference
Y	Elevated reporing 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

[redacted]

Generated on 08/20/2015
Report ID: 867367.01(01)

Method Summary

Method	Version
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
SM2540B	Standard Method 2540 B 20th Edition
SM4500-S2 D	Standard Method 4450 S2 DC 20th Edition
SW1030	SW 846 Method 1030 Revision 0 December 1996
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW6015A	SW 846 Method 6015A Revision 1 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW9045D	SW 846 Method 9045D Revision 4 November 2004

[redacted]

Sample Summary (1 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S67367.01	Stage 5	Soil	06/06/16 12:45

Analytical Laboratory Report

Lab Sample ID: S67367.01
Sample Tag: Stage 6
Collected Date/Time: 08/06/2015 12:45
Matrix: Soil
COC Reference: 90595

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	8oz Glass	None	Yes	16.2	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Mercury Digestion	Completed			SW7471B	08/20/15 12:00	RG9		
Metal Digestion	Completed			SW3015A	08/20/15 11:30	CCM		
TCLP Extraction								
Initial Sample pH	2.66			SW1311	08/18/15 19:30-08/19	WAR		
pH after 3.5 ml HCl	N/A			SW1311	08/18/15 19:30-08/19	WAR		
% Solids	100			SW1311	08/18/15 19:30-08/19	WAR		
Sample Used g	40			SW1311	08/18/15 19:30-08/19	WAR		
Final Volume mL	800			SW1311	08/18/15 19:30-08/19	WAR		
TCLP Extraction Fluid	1			SW1311	08/18/15 19:30-08/19	WAR		
Final Extract pH	4.79			SW1311	08/18/15 19:30-08/19	WAR		
Inorganics								
Flashpoint for Solids	Not detected	mm/sec	2.2	SW1030	08/18/15 21:22	PL		
pH/ Corrosivity	1.68	STD Units	0.1	SW9045D	08/11/15 16:55	ASB	12.5	
Reactive Cyanide	Not detected	mg/kg	0.2	E335.4/SM4500-CN	08/10/15 13:20	JDP		
Reactive Sulfide	Not detected	mg/kg	0.8	SM4500-S2 D	08/10/15 11:18	JDP		
Total Solids	86	%	1	SM2540B	08/10/15 16:25	ASB		
Metals								
Arsenic, TCLP	Not detected	mg/L	0.02	SW6020A	08/20/15 14:36	CCM	5.0	
Barium, TCLP	Not detected	mg/L	0.05	SW6020A	08/20/15 14:36	CCM	100.0	
Cadmium, TCLP	Not detected	mg/L	0.005	SW6020A	08/20/15 14:36	CCM	1.0	
Chromium, TCLP	Not detected	mg/L	0.05	SW6020A	08/20/15 14:36	CCM	5.0	
Lead, TCLP	Not detected	mg/L	0.03	SW6020A	08/20/15 14:36	CCM	5.0	
Mercury, TCLP	Not detected	mg/L	0.0002	SW7471B	08/20/15 15:14	CCM	0.2	
Selenium, TCLP	Not detected	mg/L	0.05	SW6020A	08/20/15 14:36	CCM	1.0	
Silver, TCLP	Not detected	mg/L	0.005	SW6020A	08/20/15 14:36	CCM	5.0	

[redacted]

Generated on 08/20/2015
Report ID: S67367.01(01)

Merit Laboratories, Inc.

2680 East Lansing Dr., East Lansing, MI 48823
Phone (517) 332-0167 Fax (517) 332-4034
www.meritlabs.com

C.O.C. PAGE # ____ OF ____

90595

CHAIN OF CUSTODY RECORD

REPORT TO

[redacted]

INVOICE TO

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED): R/C TCLP FE

SAMPLER(S) - PLEASE PRINT/SIGN NAME

TURNAROUND TIME REQUIRED ☐ 1 DAY ☐ 2 DAYS ☐ 3 DAYS ☐ STANDARD ☐ OTHER ____

DELIVERABLES REQUIRED ☐ STD ☐ LEVEL II ☐ LEVEL III ☐ LEVEL IV ☐ EDD ☐ OTHER ____

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

MERIT LAB NO. (FOR LAB USE ONLY)	DATE	TIME	SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO_3	H_2SO_4	NaOH	MeOH	OTHER	R/C	TCLP FE
73670	8/6/15	1245	Stage 5	S	1	1							+	+

Certifications
☐ OHIO VAP ☐ Drinking Water
☐ DoD ☐ NPDES

Project Locations
☐ Detroit ☐ New York
☐ Other ____

Special Instructions
185

RELINQUISHED BY: SIGNATURE/ORGANIZATION
RECEIVED BY: SIGNATURE/ORGANIZATION
RELINQUISHED BY: SIGNATURE/ORGANIZATION
RECEIVED BY: SIGNATURE/ORGANIZATION
[redacted]

RELINQUISHED BY: SIGNATURE/ORGANIZATION [signature] DATE 8/6/15 TIME 14:40
RECEIVED BY: SIGNATURE/ORGANIZATION [signature] DATE 8-6-15 TIME 14:40

SEAL NO. SEAL INTACT YES☐ NO☐ INITIALS
SEAL NO. SEAL INTACT YES☐ NO☐ INITIALS

NOTES:

TEMP. ON ARRIVAL 18.2

Lakeland Laboratories, Inc.

8280 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

September 6, 2016

[redacted]

LLL Project Number:

Enclosed are the results for sample(s) submitted for the above referenced project. Also enclosed are an invoice and a quality control report.

I certify that the data presented in this report meets both the minimum quality assurance standards specified in the referenced analytical methodology and the standards established by this laboratory. I believe the information submitted is true, accurate and complete.

Please contact me directly should you have further questions regarding this analytical. Be advised the samples will be disposed 60 days from the date of this report. If you would like the samples to be retained for a longer period of time, please call the office. All data associated with this report will be retained for five (5) years.

Lakeland Laboratories, Inc. appreciates the opportunity to provide you with quality analytical services.

Sincerely,

Lorri White

Lorri White
President

Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

Certificate of Analysis

Date: September 6, 2016

[redacted]

Sample ID: 1: T-6 Sludge

Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
TCLP Metals Analysis						
Arsenic	ND	0.5	mg/L	SW846 7060	9/3/2016	LLW
Barium	ND	0.5	mg/L	SW846 7081	9/3/2016	LLW
Cadmium	ND	0.5	mg/L	SW846 7130	9/5/2016	LLW
Chromium	ND	0.5	mg/L	SW846 7190	9/6/2016	LLW
Lead	ND	0.5	mg/L	SW846 7420	9/3/2016	LLW
Mercury	ND	0.1	mg/L	SW846 7471	9/2/2016	LLW
Selenium	ND	0.5	mg/L	SW846 7740	9/3/2016	LLW
Silver	ND	0.5	mg/L	SW846 7761	9/5/2016	LLW

Parameter- The analysis performed or name of the chemical analyzed.
Result- The reported concentration in the sample at or above reg level
LRL- Lower Reporting Level
Units- The unit which corresponds to the reported concentration
Method Reference- The method used to provide results.
Analysis Date- Date the analysis was performed
Analyst- Initials of the analyst performing the analysis
ND- Parameter not detected above the reported LRL

Reviewed By: Lorri White

Date: 9/6/2016

Lakeland Laboratories, Inc.

[redacted] 734-878-3400

CHAIN-OF-CUSTODY RECORD

FAX: 734-878-3981

[redacted]

ITEM NO	SAMPLE NUMBER	DATE	MATRIX	COMP	GRAB	SAMPLE DESCRIPTION	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS): TCLP metals RCRA 8										2 WEEK TAT	1 WEEK TAT	48 HR. RUSH	SPECIAL	LAB #
1	1	8-29 2016	SL		✓	T-6 Sludge	1															11250 105650
2																						
3																						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

TRANS. NO.	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME	REMARKS
1	[redacted]					
3						[redacted]
4						

WHITE COPY - ORIGINAL CANARY COPY - LAB [redacted]

Lakeland Laboratories, Inc.

8290 Pettysville Road
Pinckney, MI 48169

Phone: (734) 878-3400
FAX: (734) 878-3981

Certificate of Analysis

Date: January 5, 2017

[redacted]

Sample ID: 1: Acid Cleaner

Parameters	Result	LRL	Units	Method Reference	Analysis Date	Analyst
Specific Gravity	1.11			ASTM D1429-13	1/4/2017	EDW
pH	1.7	1-14		SW846 9045C	1/3/2017	LLW

Parameter- The analysis performed or name of the chemical analyzed.
Result- The reported concentration in the sample at or above reg level
LRL- Lower Reporting Level
Units- The unit which corresponds to the reported concentration
Method Reference- The method used to provide results.
Analysis Date- Date the analysis was performed
Analyst- Initials of the analyst performing the analysis
ND- Parameter not detected above the reported LRL

Reviewed By: *Lorri White*

Date: 1/5/2017

[redacted]

CHAIN-OF-CUSTODY RECORD

ITEM NO.	SAMPLE NUMBER	DATE	MATRIX	COMP	GRAB	SAMPLE DESC...	NUMBER OF CONTAINERS	ANALYSIS DESIRED (INDICATE SEPARATE CONTAINERS)	2 WEEK TAT	1 WEEK TAT	48 HR. RUSH	SPECIAL	LAB #
1	1	1-3-7	L		✓	Acid Cleaver		✓ ✓					
2													
3													
4													
5													
6													
7													
8													
9													
10													

TRANS. NO.	ITEM NUMBER	TRANSFERS RELINQUISHED BY	TRANSFER ACCEPTED BY	DATE	TIME
[redacted]					
3					
4					

REMARKS

WHITE COPY - ORIGINAL CANARY COPY - LAB

[redacted]

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	11/26/17
Receiving ID#	Acid
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Gen[redacted]	
Clien[redacted]	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

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	Magnesium	
pH (S.U.)	1.7	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.12	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) (No)	Sulfate	
Oil In Sample	Yes (No)		
Temperature	60°F		
Conductivity	41.0 mS		
% Solids	11.4		
Turbidity	Yes (No)		
Color (visual)	Colorless		
TSS (%)	<0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

Revision Number: 002.2

Issue date: 07/11/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: BONDERITE C-IC 615 ACID CLEANER known as 615
IDH number: 1688228
Product type: Acidic Cleaner for Industrial Application
Restriction of Use: None identified
Company address:
Henkel Corporation
32100 Stephenson Highway
Madison Heights, MI 48071

Region: United States
Contact information:
Telephone: 248.583.9300
MEDICAL EMERGENCY Phone: Poison Control Center
1-877-671-4608 (toll free) or 1-303-592-1711
TRANSPORT EMERGENCY Phone: CHEMTREC
1-800-424-9300 (toll free) or 1-703-527-3887
Internet: www.henkelna.com

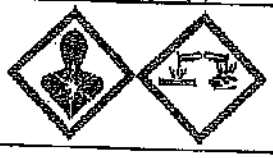
2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD.

HAZARD CLASS	HAZARD CATEGORY
SKIN CORROSION	1B
SERIOUS EYE DAMAGE	1
REPRODUCTIVE TOXICITY	2

PICTOGRAM(S)



Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe vapors, mist, or spray. Wash thoroughly after handling. Wear protective gloves, eye protection, and face protection. Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical attention. Immediately call a poison control center or physician. Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Component(s)	CAS Number	Percentage*
Phosphoric acid	7664-38-2	30 - 60
Glycolic acid	79-14-1	5 - 10

* Exact percentage is a trade secret. Concentration range is provided to assist users in providing appropriate protections.

4. FIRST AID MEASURES

Inhalation: If inhaled, immediately remove the affected person to fresh air. If not breathing, give artificial respiration. If symptoms develop and persist, get medical attention.

Skin contact: For skin contact, flush with large amounts of water. Seek immediate medical attention.

Eye contact: In case of contact with the eyes, rinse immediately with plenty of water for 15 minutes, and seek immediate medical attention.

Ingestion: Get immediate medical attention. DO NOT induce vomiting unless directed to do so by medical personnel. Call a physician immediately.

Symptoms: See Section 11.

5. FIRE FIGHTING MEASURES

Extinguishing media: Use media appropriate for surrounding material.

Special firefighting procedures: Wear full protective clothing. Wear self-contained breathing apparatus.

Unusual fire or explosion hazards: This product is an aqueous mixture which will not burn.

Hazardous combustion products: Irritating and toxic gases or fumes may be released during a fire.

6. ACCIDENTAL RELEASE MEASURES

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Wear appropriate personal protective equipment. Do not allow product to enter sewer or waterways.

Clean-up methods: Absorb spill with inert material. Shovel material into appropriate container for disposal. Dispose of according to Federal, State and local governmental regulations.

7 HANDLING AND STORAGE

Handling: Avoid skin and eye contact. Wash thoroughly after handling. Avoid breathing mists or aerosols of this product. Do not take internally. For industrial use only. Provide adequate ventilation. Use caution when combining with water; DO NOT add water to acid, ALWAYS add acid to water while stirring to prevent release of heat, steam and fumes.

Storage: Keep container tightly closed and in a cool, well-ventilated place away from incompatible materials.

For information on product shelf life, please review labels on container or check the Technical Data Sheet.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

Hazardous Component(s)	ACGIH TLV	OSHA PEL	AIHA WEEL	OTHER
Phosphoric acid	3 mg/m3 STEL 1 mg/m3 TWA	1 mg/m3 PEL	None	None
Glycolic acid	None	None	None	None

Engineering controls: Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

Respiratory protection: If ventilation is not sufficient to effectively prevent buildup of aerosols, mists or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

Eye/face protection: Wear chemical goggles; face shield (if splashing is possible).

Skin protection: Chemical resistant, impermeable gloves. Use of impervious apron and boots are recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Color:	Yellow
Odor:	Sharp acid
Odor threshold:	Not available.
pH:	< 2
Vapor pressure:	Not determined
Boiling point/range:	100 °C (212°F) calculated
Melting point/ range:	Not determined
Specific gravity:	1.34 - 1.38
Vapor density:	Not determined
Flash point:	Not applicable
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Autoignition temperature:	Not applicable
Evaporation rate:	Not available.
Solubility in water:	Complete
Partition coefficient (n-octanol/water):	Not determined
VOC content:	Not available.
Viscosity:	Not available.
Decomposition temperature:	Not available.

10. STABILITY AND REACTIVITY

Stability:	Stable at normal conditions.
Hazardous reactions:	None under normal processing.
Hazardous decomposition products:	Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Incompatible materials:	Strong alkalis.
Reactivity:	This product may react with strong alkalies.
Conditions to avoid:	Keep away from heat, ignition sources and incompatible materials.

11. TOXICOLOGICAL INFORMATION

Relevant routes of exposure: Skin, Inhalation, Eyes

Potential Health Effects/Symptoms

Inhalation:	Mists, vapors or liquid may cause severe irritation or burns.
Skin contact:	Corrosive to the skin. Contact with the skin or mucous membranes may cause severe irritation and burns.
Eye contact:	This product is severely irritating to the eyes and may cause irreversible damage including burns and blindness.
Ingestion:	This product may produce corrosive damage to the gastrointestinal tract if it is swallowed.

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Phosphoric acid	Oral LD50 (RAT) = 1,530 mg/kg Dermal LD50 (RABBIT) = 2,740 mg/kg	Irritant, Corrosive
Glycolic acid	Oral LD50 (RAT) = 1,950 mg/kg Inhalation LC50 (RAT, 4 h) = 7.7 mg/l	Corrosive, Irritant, Kidney, Metabolic, Respiratory

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen (Specifically Regulated)
Phosphoric acid	No	No	No
Glycolic acid	No	No	No

12. ECOLOGICAL INFORMATION

Ecological Information: No data available.

13. DISPOSAL CONSIDERATIONS

Information provided is for unused product only.

Recommended method of disposal:	Follow all local, state, federal and provincial regulations for disposal.
Hazardous waste number:	This product, if discarded directly, would be a characteristic RCRA corrosive waste (D002).

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name:	Corrosive liquids, n.o.s. (Phosphoric acid, Glycolic acid)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	II
DOT Hazardous Substance(s):	Phosphoric acid

International Air Transportation (ICAO/IATA)

Proper shipping name:	Corrosive liquid, n.o.s. (Phosphoric acid, Glycolic acid)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	II

Water Transportation (IMO/IMDG)

Proper shipping name:	CORROSIVE LIQUID, N.O.S. (Phosphoric acid, Glycolic acid)
Hazard class or division:	8
Identification number:	UN 1760
Packing group:	II

15. REGULATORY INFORMATION

United States Regulatory Information

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302 EHS:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Immediate Health, Reactive
CERCLA/SARA Section 313:	None above reporting de minimis
CERCLA Reportable quantity:	Phosphoric acid (CAS# 7664-38-2) 5,000 lbs. (2,270 kg)
California Proposition 65:	This product contains a chemical known in the State of California to cause cancer. This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

Canada Regulatory Information

CEPA DSL/NDSL Status:	All components are listed on or are exempt from listing on the Canadian Domestic Substances List.

16. OTHER INFORMATION

This safety data sheet contains changes from the previous version in sections: New Safety Data Sheet format.

Prepared by:	Jennifer Mckay, Regulatory Affairs Specialist
Issue date:	07/11/2014

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

Generator Waste Profile

Profile # 01099

GENERATOR INFORMATION

[redacted]

A

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Electroless Nickel Solution - low pH

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

TSF accumulation of spent solution from plating on plastics operation.

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ☒ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 D007

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2	acceptable
☐ Black/Brown	☐ 1-3 % ☐ >5%	☐ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	032717
☒ Other Light Green		☒ Single Phase	Exact / Other ____	

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

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

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN		CONSTITUENT	MAX	MIN	
Electroless Nickel Solution	99	100	%				%
Sulfuric acid	5	15	%				%
Chromium	0.001	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	☐	0 ppm	Aromatic Amine	☐	0 ppm
Dioxins	☐	0 ppm	Pesticides	☐	0 ppm
Cyanides Reactive	☐	0 ppm	Rodenticides	☐	0 ppm
Cyanides Total	☐	0 ppm	Fungicides	☐	0 ppm
Sulfides Reactive	☐	0 ppm			
Sulfides Total	☐	0 ppm			

Arsenic (As)	D004	☐ < 5 ppm	____ ppm
Barium (Ba)	D005	☐ <100 ppm	____ ppm
Cadmium (Cd)	D006	☐ < 1 ppm	____ ppm
Chromium (Cr)	D007	☐ < 5 ppm	11 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 100/lb
3. DOT Shipping Name UN3264, Waste Corrosive liquid, acidic, n.o.s. Hazard Class 8 UN/NA UN3264
   PG II ERG 154 Hazardous Constituents for "n.o.s." sulfuric acid, nickel
4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: 1 6. Anticipated Volume / Units per Year: 10,000 gal/yr 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 analysis.

[redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S 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.

[redacted]

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
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	3/22/17
Receiving ID#	Electroless Nickel
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	[redacted]
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

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	Magnesium	
pH (S.U.)	1.6	Sodium Chloride	
Cyanides? (mg/L)	<.36	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.06	TDS	
Physical Description	liquid w/P	Resistivity	
Stream Consistency	Yes / No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	66°F		
Conductivity	55.8mS		
% Solids	3.9		
Turbidity	Yes (No)		
Color (visual)	Green/Black		
TSS (%)	0.4		
Radiation Screen (as needed)	Neg. Tue		
Lab Signature			

Tracking # 435353

[redacted]

To: Rick Powals - EGT
Address: _____

Attention: _____

Profile Number	Collection Date	Sample Description (Matrix, Grab/Composite)	# Containers/Type	Size	Analysis Requested
435353	3/17/17	Electroless Nickel Solution - Low pH	1		

[redacted]

Relinquished by: _____ Date: _____ Accepted by: _____ Date: _____

Lab Use Only	Yes	No
Cold Pack		
Headspace		
Intact		

Hazards Associated with Sample	
Flammable	
Corrosive	X
Highly Toxic	
Other	

Comments

Tracking # 435353

[redacted]

To: Rick Powells - EGT
Address: _____
_____
Attention: _____

[redacted]

Profile Number	Collection Date	Sample Description (Matrix, Grab/Composite)	# Containers/Type	Size	Analysis Requested
435353	3/17/17	Electroless Nickel Solution - Low pH	1		

[redacted]

by: _____ Date: 3/21/17

_____ Date: _____

Relinquished by: _____ Date: _____ Accepted by: _____ Date: _____

Lab Use Only	Yes	No
Cold Pack		
Headspace		
Intact		

Hazards Associated with Sample

Flammable	
Corrosive	X
Highly Toxic	
Other	

Comments

01101

[redacted]

SECTION 1. GENERAL INFORMATION

	Generator Information	Customer Information	Billing Information
	[redacted]		[redacted]

SECTION 2. WASTE INFORMATION

Common Name of Waste: MAUMEE RETENTION POND WATER

Process Generating Waste: RETENTION POND FOR STORM WATER RUN OFF

Waste Volume Produced Annually: 100,000 GALLONS

Shipping Increments: ☐ One Time ☐ Weekly ☐ Monthly ☐ Quarterly ☐ Yearly ☐X Other AS NEEDED

Check Any Hazardous Characteristics That Apply: ☐ Reactive ☐ Corrosive ☐ Toxic ☐ Flammable ☐ Listed

accepted
O
03.27.17

SECTION 3. USED / WASTE OIL

Does your waste stream contain oil? ☐ Yes ☐X No

Is this oil considered to be a "used oil" as determined by 40CFR 260.10? ☐ Yes ☐X No

(If yes, then please complete used oil certification sheet)

Attach analytical and check the appropriate box below for any parameters for which your oils have been tested.

☐ PCBs ☐ TCLP(Volatiles/Semivolatiles) ☐ Total Halogens ☐ Total Metals

SECTION 4. PHYSICAL AND CHEMICAL PROPERTIES

Is this waste a nonhazardous liquid industrial by-product?	☐ YES ☐X NO
What is the Color?	☐ White ☐ Grey ☐ Black ☐ Clear ☐X CLEAR GREEN

[redacted]

Describe the Odor	☐ Strong ☐ Mild ☐X None
Does it Pass Paint Filter Test	☐ YES ☐X NO
Physical State at 70° F	☐X Liquid ☐ Slurry ☐ Other
Density (weight/volume)	1gm/l3
Specific Gravity	1.0
pH	7
Flash Point (closed cup)	>200F
Viscosity at 70° F	☐ High ☐ Medium ☒ Low
Percent Composition ___100_% Water _____% Oil _____% Rag _____% Solids	
Solids Composition	☐ Suspended ☐ Settable ☐ Both

Chemical Composition: ***List all major constituents, include herbicides, pesticides, carcinogens, pathogens and other hazardous constituents.***

-e- VOCs

Chemical	Minimum	Maximum
WATER	99%	100%
NITRATES	%	<0.01%
UREA	%	<0.01%
POTASH	%	<0.01 %

SECTION 5: TCLP AND TESTING CERTIFICATION

Please attach analytical results to this profile and check either "YES" indicating concentrations above the regulatory level or "NO" verifying the constituent is not present above regulatory level. ***All constituents must have either a "YES" or "NO" checked.***

Check the method used: ☐ Total ☐ TCLP

METALS mg/L (ppm)			
Metal	Level > than	Yes	No
D004 Arsenic	5.0	☐	☒
D005 Barium	100.0	☐	☒
D006 Cadmium	1.0	☐	☒
D007 Chromium	5.0	☐	☒
D008 Lead	5.0	☐	☒
D009 Mercury	0.2	☐	☒
D010 Selenium	1.0	☐	☒
D011 Silver	5.0	☐	☒

ORGANICS mg/L (ppm)			
Material	Level > than	Yes	No
D018 Benzene	0.5	☐	☒
D019 Carbon Tetrachloride	0.5	☐	☒
D021 Chlorobenzene	100.0	☐	☒
D022 Chloroform	6.0	☐	☒
D028 1, 2-Dichloroethane	0.5	☐	☒
D029 1, 1-Dichloroethylene	0.7	☐	☒
D035 Methyl Ethyl Ketone	200.0	☐	☒
D039 Tetrachloroethylene	0.7	☐	☒
D040 Trichloroethylene	0.5	☐	☒
D043 Vinyl Chloride	0.2	☐	☒

[redacted] BASE NEUTRAL HERBICIDES and

ACID EXTRACTABLES mg/L (ppm)			
Material	Level > than	Yes	No
D023 o-Cresol	200	☐	☒
D024 m-Cresol	200	☐	☒
D025 p-Cresol	200	☐	☒
D026 Cresol	200	☐	☒
D037 Pentachlorophenol	100	☐	☒
D041 2, 4, 6-Trichlorophenol	400	☐	☒
D042 2, 4, 6-Trichlorophenol	2.0	☐	☒

EXTRACTABLES mg/L (ppm)			
Material	Level > than	Yes	No
D027 1, 4-Dichlorobenzene	7.5	☐	☒
D030 2, 4-Dinitrotoluene	0.13	☐	☒
D032 Hexachlorobenzene	0.13	☐	☒
D033 Hexachlorobutadiene	0.5	☐	☒
D034 Hexachloroethane	3.0	☐	☒
D036 Nitrobenzene	2.0	☐	☒
D038 Pyridine	5.0	☐	☒

PESTICIDES mg/L (ppm)			
Material	Level > than	Yes	No
D012 Endrin	0.02	☐	☒
D013 Lindane	0.4	☐	☒
D014 Methoxychlor	10.0	☐	☒
D015 Toxaphene	0.5	☐	☒
D016 2, 4-D	10.0	☐	☒
D017 2, 4, 5-TP (Silvex)	1.0	☐	☒
D020 Chlordane	0.03	☐	☒
D031 Heptachlor	0.008	☐	☒

SECTION 6: SHIPPING INFORMATION

Is this waste a D.O.T. Hazardous Material?	☐ YES ☐X NO
By-Product Reporting Code:	☐ 017L – Crankcase Oil ☐ 019L – Coolants and Water Soluble Oil ☐ 021L – Other Oil ☐ 029L – Other Wastes ☐ ________
Proper Shipping Name:	Non Hazardous Non Regulated Material, (Maumee retention pond water)
Method of Shipment:	☐X Bulk ☐ Drum ☐ Tote
Additional Handling / Comments:	
Waste Receipt Classification:	☐ Organic Waste ☐ Oily Waste ☐ Metal Derived Waste

Section 7 – Terms and Conditions of Waste Service

1. Waste Disposal. Subject to the terms and conditions contained herein and those in the [redacted]

2. The Agreement. The entire agreement of the parties for the disposal of industrial Waste (the "Agreement") shall consist of these terms and conditions and any application, permit approval or other documents provided by the Company that may be applicable to such Waste. Waste accepted at the Facility by company will constitute Customer's acceptance of the Proposal and Approval Notification's terms and conditions as well as the terms and conditions herein. Each Waste Approval's terms and conditions will supersede the terms and conditions of any prior Agreement between the parties.

3. Waste Accepted at Facility. Customer warrants that the Waste described in the Waste Characterization Profile that is delivered to Company at its Facility hereunder will not contain any quantity of hazardous materials or substances, radioactive materials or substances or toxic wastes or substances as defined by applicable federal, state and/or local laws or regulations. Any waste which does not meet this requirement shall [redacted]

hereinafter be referred to as "Unacceptable Waste." The Customer shall in all matters relating to the collection, transportation and disposal of the Waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean the Company's disposal facility located at 27140 Princeton Ave., Inkster, MI 48141.

4. Industrial Waste. Customer warrants that the Waste delivered to Company hereunder will not contain any waste that is not specifically described on the Waste Characterization Profile which is incorporated herein and which is subsequently approved by the Company and will meet the material description as set forth in the application and otherwise in all significant respects. The parties may incorporate additional Industrial Waste as part of this Agreement if prior to delivery of such Waste to Company, Customer has provided a Waste Characterization Profile Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Industrial Waste disposal. Title to all Waste handled or disposed of by Company shall at all times remain with Customer.

5. Rights of Refusal/Rejection. Company has the right to reuse or reject after acceptance any load of wastes delivered to the facility if the Company believes the Customer has breached (or is breaching) its warranties or agreements hereunder. If Customer delivers wastes in breach of any warranty or agreements herein, Company may in its sole discretion, either remove and dispose of that waste and charge Customer for the costs or require Customer to promptly remove the waste.

6. Charges and Payment. Customer agrees to pay the Company's rates as written in the Proposal and Approval Notification Letter, which may be modified from time to time upon thirty (30) days written notice to the Customer. Payment shall be made by Customer within thirty (30) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Customer agrees to pay service charge of 1.5% per month, or the maximum interest rate permitted by law whichever is less.

7. Term. This Agreement shall continue in effect until terminated by Company or Customer, with or without cause, upon prior notice by either party and representations and warranties regarding the waste delivered and the indemnities set forth herein shall survive termination of this Agreement.

8. Indemnity. Customer agrees to indemnify, save harmless, and defend Company, its Corporate affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto (including costs of defense, settlement, and reasonable attorney's fees), which it may hereafter incur, become responsible for, or pay out as a result of death or bodily injuries to any person, destruction or damage to any property, contamination of or adverse, effects on the environment, of any violation of governmental laws, regulations, or orders caused, in whole or in part by the Customer's breach of any warranty, term or provision of this Agreement, or any act, omission, willful misconduct or negligence of the Customer, its employees, or subcontractors in the performance of this Agreement.

9. Default. The occurrence of any of the following events shall also constitute an event of default by the Customer and shall give the Company the right to immediately terminate this Agreement. (a) A petition for reorganization or bankruptcy filed by or against the Customer; (b) Failure by Customer to pay any amount due to Company (c) Any breach by Customer of any of its obligations pursuant to the Agreement. The parties covenant and agree that the Company's removal and acceptance of the Customer's Waste constitutes work on and an improvement to the Customer's real property. Accordingly, Customer grants to Company the right to file any and all documents permitted by law or otherwise on Customer's real property to secure the monies owed to Company by Customer for services performed.

10. Attorneys' Fee. In the event of a breach by Customer of the Agreement, the Customer shall pay all attorneys' fee, collection fees and costs of Company incident to any action brought to enforce the Agreement.

11. Assignment. Customer may not assign, transfer or otherwise vest in any other company, entity or person, any of its rights or obligations under the Agreement without the prior written consent of Company.

12. Miscellaneous. The Agreement shall be governed by and constructed in accordance with the laws of the state of Michigan in which the Facility is located. The price and terms of this proposal are confidential and are not to be disclosed to any other persons or entities. Customer agrees to take all precautions to insure that its officers, employees and agents maintain the confidentiality of this information and do not disclose the price and terms of this proposal. Service Provider is defined as any company working on behalf of a Generator.

13. Notices. All notices herein shall be considered as having been given upon being placed in the mail, certified, postage prepaid, addressed to the Company or Customer at the address set forth in the Waste Characterization Profile.

SECTION 3: GENERATOR CERTIFICATION and WASTE SERVICE AGREEMENT

I certify that I am authorized to sign below and all information is complete, factual (including attached information), is an accurate representation of the known and suspected hazards and of waste generator regulations pertaining to the waste described herein and agree to the terms and conditions of waste services in Section 7. Based on our knowledge of the

[redacted]

JONES & HENRY LABORATORIES, INC. / 2567 TRACY ROAD, NORTHWOOD, OHIO 43619 / (419) 666-0411

March 15, 2017

[redacted]

Below are the results of analysis of the indicated sample(s) submitted to this laboratory:

[redacted]

Project account code: 269

TEST PARAMETER	RESULT	UNITS	MDL	ANDATE	AN	REF METHOD
BIOCHEMICAL OXYGEN DEMAND	47	mg/L	4	03/01/17	SMI	SM5210 B
NITROGEN, KJELDAHL	3.6	mg/L	2.0	03/02/17	AIA	EPA 351.2
NITROGEN, AMMONIA	2.49	mg/L	0.10	03/09/17	NIS	EPA 350.1
NITROGEN, NITRATE+NITRITE	2.49	mg/L	0.20	03/13/17	AIA	EPA 353.2
PHOSPHORUS	0.17	mg/L	0.04	03/06/17	AIA	SM 4500-P B(5)E
TOTAL ORGANIC CARBON	29.4	mg/L	1.0	03/06/17	LC	SM 5310B/EPA90
TOTAL ORGANIC HALOGEN	0.125	mg/L	0.020	03/09/17	SUB	EPA 9020

[redacted]

TEST PARAMETER	RESULT	UNITS	MDL	ANDATE	AN	REF METHOD
BIOCHEMICAL OXYGEN DEMAND	17	mg/L	4	03/01/17	SMI	SM5210 B
NITROGEN, KJELDAHL	977	mg/L	2.0	03/02/17	AIA	EPA 351.2
NITROGEN, AMMONIA	797	mg/L	0.10	03/09/17	NIS	EPA 350.1
NITROGEN, NITRATE+NITRITE	385	mg/L	0.20	03/13/17	AIA	EPA 353.2
PHOSPHORUS	4.82	mg/L	0.04	03/07/17	AIA	SM 4500-P B(5)E
TOTAL ORGANIC CARBON	221	mg/L	1.0	03/06/17	LC	SM 5310B/EPA90
TOTAL ORGANIC HALOGEN	Not detected	mg/L	0.020	03/09/17	SUB	EPA 9020

[redacted]

TEST PARAMETER	RESULT	UNITS	MDL	ANDATE	AN	REF METHOD
BIOCHEMICAL OXYGEN DEMAND	12	mg/L	4	03/01/17	SMI	SM 5210 B
NITROGEN, KJELDAHL	797	mg/L	2.0	03/02/17	AIA	EPA 351.2
NITROGEN, AMMONIA	482	mg/L	0.10	03/09/17	NIS	EPA 350.1

Jones & Henry Laboratories, Inc

[redacted]

TEST PARAMETER	RESULT	UNITS	PQL	AN DATE	AN	REF METHOD
NITROGEN, NITRATE + NITRITE	2.74	mg/L	0.20	03/13/17	AIA	EPA 353.2
PHOSPHORUS	5.56	mg/L	0.04	03/07/17	AIA	SM 4500-P B(5)E
TOTAL ORGANIC CARBON	89	mg/L	1.0	03/06/17	LC	SM 5310B/EPA90
TOTAL ORGANIC HALOGEN	Not detected	mg/L	0.020	03/09/17	SUB	EPA 9020

[redacted]

TEST PARAMETER	RESULT	UNITS	PQL	AN DATE	AN	REF METHOD
BIOCHEMICAL OXYGEN DEMAND	Not detected	mg/L	3.	03/07/17	SMT	SM5210B
NITROGEN, KJELDAHL	2.3	mg/L	1.0	03/02/17	AIA	EPA 351.2
NITROGEN, AMMONIA	0.61	mg/L	0.10	03/09/17	NJS	EPA 350.1
NITROGEN, NITRATE + NITRITE	3.33	mg/L	0.20	03/13/17	AIA	EPA 353.2
PHOSPHORUS	0.71	mg/L	0.04	03/07/17	AIA	SM 4500-P B(5)E
TOTAL ORGANIC CARBON	17	mg/L	1.0	03/06/17	LC	SM 5310B/EPA90
TOTAL ORGANIC HALOGEN	Not detected	mg/L	0.020	03/09/17	SUB	EPA 9020

Samples AH44070 - AH44073 were subcontracted to ALS Environmental for total organic halogen analysis.

Please advise should you have questions concerning these data.

Respectfully submitted,

John W. Jones
President

US ecology

WASTE PROFILE FORM

Profile Tracking # 5 Solid 01102

For assistance in completing this document or for additional information on service offerings, please visit our website at www.usecology.com, or call 800-592-5489.

US Ecology will choose the appropriate facility and method of waste management for your waste from the technologies offered at each operation.

If you wish to direct this waste to a specific facility(s) or treatment technology please indicate here:

Waste Common Name: Spent Electro Polish Solution

Section 1 – Generator & Customer Information

[redacted]

Section 2 – Shipping & Packaging Information

acceptable 03 27 17

2.1) Shipping Volume & Frequency:

a) Volume of Waste to be Shipped: 5,000 gallons

b) Frequency: ☐ One time ☒ Month ☐ Year ☐ Other: _____

2.2) *DOT Information*

a) *Is this a U.S.* Department of Transportation (USDOT) Hazardous Material? ☒ Yes ☐ No

b) If "Yes", indicate the proper shipping name per 49CFR 172.101 Hazardous Materials Table:

RQ, Waste Corrosive Liquid, Acidic, Inorganic, n.o.s., 8, PGII (Sulfuric Acid, Phosphoric Acid) (RQ-D002,7,10)

Section 3 – Special Properties

3.1) Color Brown

3.2) Odor ☐ None ☐ Ammonia ☐ Amines ☐ Mercaptans ☐ Sulfur ☐ Organic Acid ☐ Amines/Ammonia x Other: Acidic

3.3) Consistency at 70°F: ☐ Solid ☐ Dust/Powder ☐ Debris ☐ Sludge ☒ Liquid ☐ Gas/Aerosol ☐ Varies

3.4) What is the pH? ☒ ≤2 ☐ 2.1-4.9 ☐ 5 – 10 ☐ 10.1 – 12.4 ☐ ≥12.5 ☐ N/A

3.5) What is the flash point? ☐ <90°F ☐ 90-139°F ☐ 140-199°F ☐ >200°F ☒ N/A

3.6) Does this waste exhibit any of the following properties? **(check all that apply)**

☐ None	☒ Free Liquids	☐ Metal Fines	☐ Water Reactive	☐ Biohazard
☐ Shock Sensitive	☐ Oily Residue	☐ Dioxins	☐ Furans	☐ Aluminum
☐ Asbestos – non-friable	☐ Asbestos – friable	☐ Other Radioactive	☐ Air Reactive	☐ Isocyanates
☐ Biodegradable Sorbents	☐ Pyrophoric	☐ Reactive Sulfide	☐ Reactive Cyanide	☐ Explosives
☐ Temperature Controlled Organic Peroxide		☐ NORM	☐ TENORM	

Section 4 – Composition and Generating Process

4.1) Provide a physical and chemical composition of the waste (e.g. soil, water, PPE, debris, etc.). List the percent ranges of the material, either estimated or known.

Sulfuric Acid 30 to 60 % Chromium 1 to 2 %

Phosphoric Acid 30 to 60 % Selenium ≤.001 to ____ %

4.2) Provide a description of the generating process. *Remediation & IDW Sites: please provide a site history.*

Acid bath used to etch stainless steel prior to electroplating process

4.3) Are there any known previous handling or treatment issues involving this waste? ☐ Yes* ☒ No

*If yes, describe: _____

Section 5 – Hazardous Wastes

As determined by 40 CFR, Part 261 and State Rules: **Please list applicable waste code(s):**

5.1) Is this waste exempted from RCRA? ☐ Yes, please provide exemption: _____ ☒ No

5.2) Is this an EPA RCRA listed hazardous waste (F, K, P or U)? ☐ Yes: _____ ☒ No

a) For F006–F009, F012, does this come from a generator that conducts a cyanide plating process? ☐ Yes ☐ No

5.3) Is this an EPA RCRA characteristic hazardous waste (D001-D043)? ☒ Yes D002, D007, D010 ☐ No

5.4) Do any State Specific Hazardous Waste Codes apply? ☐ Yes: _____ ☒ No

If you answered 'no' to 5.2, 5.3 and 5.4, please proceed to Section 6.

5.5) EPA Source Code: _____ EPA Form Code: _____

5.6) Waste Code Determination Is Based On: ☒ Generator Knowledge ☐ Analysis ☐ MSDS

Analysis and/or MSDS may be required for review and approval for hazardous and non-hazardous waste streams.

5.7) Does this waste exceed Land Disposal Restriction levels? ☒ Yes ☐ No

a) Is this stream a wastewater (WW) or non-wastewater (NWW)? ☒ WW ☐ NWW

b) If this waste stream is greater than 50% soil, does it meet the alternative soil treatment standards of 40CFR 268.49? ☐ Yes ☒ No

c) Does this waste contain greater than 50% debris, by volume? (Debris is greater than 2.5 inches in size.) ☐ Yes ☒ No

d) If the debris is larger than 3 ft x 3 ft x 3 ft, please provide the approximate dimensions and weight:

5.8) If this is a characteristic hazardous waste, does it contain Underlying Hazardous Constituents? ☒ Yes* ☐ No

*If Yes, please list: D007, D010

For a complete list of UHC constituents, please refer to 40 CFR 268.48

Section 6 – Non-Hazardous Wastes

Please list applicable waste code(s):

6.1) Do any State Specific Non-Hazardous Waste Codes apply? ☐ Yes ☒ No _____

6.2) Is this a Universal (UNIV) waste or a Recyclable Good (RG)? ☐ UNIV ☐ RG ☒ N/A

6.3) Is this waste used oil as defined by 40 CFR Part 279? ☐ Yes ☒ No

a) If yes, is the total halogen content of the used oil waste stream greater than 1,000 ppm? ☐ Yes ☐ No

b) If yes, what is the source of the halogen content?

- ☐ This is a metalworking oil/fluid containing chlorinated paraffins.
- ☐ This is used oil contaminated with chlorofluorocarbons from refrigeration units.
- ☐ This oil contains halogenated solvents. List specific solvents: _____
- ☐ Other, describe: _____

Section 7 – TSCA Information

7.1) What is the concentration of PCBs in the waste? ☒ None ☐ 0-49 ppm ☐ 50-499 ppm ☐ 500+ ppm

7.2) Does the waste contain PCB contamination from a source with a concentration ≥ 50 ppm? ☐ Yes ☒ No ☐ Unknown

If you answered "none" or "0-49 ppm" to 7.1 and "no" to 7.2, please proceed to Section 8.

7.3) Has this waste been processed into a non-liquid form? ☐ Yes* ☐ No

*If yes, what was the concentration of PCBs prior to processing? ☐ 0-499 ppm ☐ 500+ ppm

7.4) Is this non-liquid PCB waste in the form of soil, rags, debris, or other contaminated media? ☐ Yes ☐ No

7.5) Are you a PCB capacitor manufacturer or a PCB equipment manufacturer? ☐ Yes ☐ No

7.6) Has the PCB Article (e.g., transformer, hydraulic machine, PCB-contaminated electrical equipment) been drained/flushed of all PCBs and decontaminated in accordance with 40 CFR 761.60(b)? ☐ N/A ☐ Yes ☐ No

Section 8 – Clean Air Act Information

8.1) Is this waste subject to regulation under 40 CFR, Part 264, Subpart CC (VOC > 500 ppmw)? ☐ Yes ☒ No

8.2) Is this waste subject to regulation under 40 CFR, Part 63, Subpart DD (VOHAP > 500 ppmw)? ☐ Yes ☒ No

8.3) Is the site, or waste, subject to any other NESHAP/MACT standard(s)? ☐ Yes* ☒ No

*If Yes this document serves as notification that this waste contains chemicals _____, _____ required to be managed in accordance with Part ☐ 61 ☐ 62 ☐ 63 Subpart _____ of NESHAP/MACT standards.

8.4) Does this waste stream contain Benzene? ☐ Yes ☒ No

If you answered "no" to 8.4, please proceed to Section 9.

8.5) Does the waste stream come from a facility subject to 40 CFR 61, Subpart FF (Benzene NESHAP)?

☐ Yes, please provide the SIC/NAICS code: _____ ☒ No

If you answered "no" to questions 8.5, please proceed to Section 9.

8.6) Does your facility manage the waste subject to Benzene NESHAP in a manner other than shipping off-site?

☐ Yes, please specify: _____ ☐ No

8.7) Is the generating source of this waste a facility with Total Annual Benzene (TAB) ≥10 Mg/year? ☐ Yes ☐ No

8.8) Does the waste contain >10% water? ☐ Yes ☐ No

8.9) What is the TAB quantity for your facility? _____ Mg/Year

8.10) What is the total Benzene concentration in your waste? _____ Percent or _____ ppmw.

Supporting analysis must be attached. Do not use TCLP analytical results. Acceptable laboratory methods include 8020, 8240, 8260, 602 and 624.

Section 9 – Certification

I certify that all information (including attachments) is complete and factual and is an accurate representation of the known and suspected hazards, pertaining to this waste described herein. I authorize EQ's personnel to add supplemental information to the waste approval file, provided I am contacted and give verbal permission. I authorize EQ's personnel to obtain a sample from any waste shipment for purposes of verification and confirmation. I agree that, if EQ approves the waste described herein, all such wastes that are transported, delivered, or tendered to EQ by Generator or on Generator's behalf shall be subject to, and Generator shall be bound by, the attached Standard Terms and Conditions.

If I am an agent acting on behalf of [redacted] certify that I have permission to sign any and all waste characterization paperwork on the [redacted]

[redacted]

STANDARD TERMS AND CONDITIONS

The Agreement between the Customer and EQ – The Environmental Quality Company and/or its member companies (hereinafter "EQ") related to or associated with Delivered Waste, as herein defined, shall be governed by the following Standard Terms and Conditions in addition to the terms and conditions contained in any Waste Profile Form, Customer Approval Quote Confirmation, Generator Approval Notification, Notice of Waste Approval Expiration, and/or Credit Agreement associated with such Delivered Waste.

The Customer may use its standard forms (such as purchase orders, acknowledgments of orders, and invoices) to administer its dealings under this Agreement for convenience purposes, but all provisions thereof in conflict with these terms and conditions shall be deemed stricken.

Definitions

The following definitions shall apply for purposes of this Agreement:

"Acceptable Waste" shall mean any hazardous waste, as defined under applicable State or federal law, determined by EQ as acceptable for treatment and/or disposal in accordance with this Agreement.

"Delivered Wastes" shall mean all wastes (i) which are transported, delivered, or tendered to EQ by the Customer; (ii) which the Customer has arranged for the transport, delivery or tender to EQ; or (iii)) which are transported, delivered, or tendered to EQ under a Credit Agreement between the Customer and EQ.

"Non-Conforming Wastes" shall mean wastes that (a) are not in accordance in all material respects with the warranties, descriptions, specifications or limitations stated in the Waste Profile Form and this Agreement; (b) have constituents or components of a type or concentration not specifically identified in the Waste Profile Form (i) which increase the nature or extent of the hazard and risk undertaken by EQ in treating and/or disposing of the waste, or (ii) for whose treatment and/or disposal a Waste Management Facility is not designed or permitted, or (iii) which increase the cost of treatment and/or disposal of waste beyond that specified in EQ's price quote; or (c) are not properly packaged, labeled, described, or placarded, or otherwise not in compliance with United States Department of Transportation and United States Environmental Protection Agency regulations.

Control of Operations.

EQ shall have sole control over all aspects of the operation of any treatment and/or disposal facility of EQ receiving Delivered Wastes under this Agreement (hereinafter, "Waste Management Facility"), including, without limitation, maintaining EQ's desired volume of Acceptable Wastes being delivered to any Waste Management Facility by the Customer or any other person or entity.

Identification of Waste.

For each waste material to be transported, delivered, or tendered to EQ under this Agreement, the Customer shall provide, or cause to be provided, to EQ a representative sample of the waste material and a completed Waste Profile Form containing a physical and chemical description or analysis of such waste material, which description shall conform with any and all guidelines for waste acceptance provided by EQ. On the basis of EQ's analysis of such representative sample of the waste material and such Waste Profile Form, EQ will determine whether such wastes are Acceptable Wastes. EQ does not make any guarantee that it will handle any waste material or any particular quantity or type of waste material, and EQ reserves the right to the decline to transport, treat and/or dispose of waste material. The Customer shall promptly furnish to EQ any information regarding known, suspected or planned changes in the composition of the waste material. Further, the Customer shall promptly inform EQ of any change in the characteristic or condition of the waste material which becomes known to the Customer subsequent to the date of the Waste Profile Form.

Non-Conforming Wastes.

In the event that EQ at any time discovers that any Delivered Waste is Non-Conforming Waste, EQ may reject or revoke its acceptance of the Non-Conforming Waste. The Customer shall have seven (7) days to direct an alternative lawful manner of disposition of the waste, unless it is necessary by reason of law or otherwise to move the Non-Conforming Waste prior to expiration of the seven (7) day period. If the Customer does not direct an alternative disposal, at its option, EQ may return any such Non-Conforming Wastes to the Customer, and the Customer shall pay or reimburse EQ for all costs and expenses incurred by EQ in connection with the receipt, handling, sampling, analyses, transportation and return to the Customer of such Non-Conforming Wastes. If it is impossible or impractical for EQ to return the Non-Conforming Waste to the Customer, the Customer shall reimburse EQ for all costs, of any type or nature whatsoever, incurred by EQ, solely because such Delivered Waste was Non-Conforming Waste (including, but not limited to, all costs associated with any remedial steps necessary, due to the nature of the Non-Conforming Waste, in connection with material with which the Non-Conforming Waste may have been commingled and all expenses and charges for analyzing, handling, locating, preparing for transporting, storing and disposing of any Non-Conforming Waste).

Customer Warranty - Acceptable Wastes.

All Delivered Wastes shall be Acceptable Wastes and shall conform in all material respects to the description and specifications contained in the Waste Profile Form. The information set forth in the Waste Profile Form or any manifest, placard or label associated with any Delivered Wastes, or otherwise represented by the Customer or the generator (if other than the Customer) to EQ, is and shall be true, accurate and complete as of the date of receipt of the involved waste by EQ.

Customer Warranty - Title to Wastes.

Either the Customer or the generator (if other than the Customer) shall hold clear title, free of any all liens, claims, encumbrances, and charges to Delivered Waste until such waste is accepted by EQ.

Customer Warranty - Compliance with Laws.

The Customer shall comply with all applicable federal, state and local environmental statutes, regulations, and other governmental requirements, as well as directives issued by EQ from time to time, governing the transportation, treatment and/or disposal of Acceptable Wastes, including, but not limited to, all packaging, manifesting, containerization, placarding and labeling requirements.

Customer Warranty - Updating Information.

If the Customer receives information that Delivered Waste or other hazardous waste described in the Waste Profile Form, or some component of such waste, presents or may present a hazard or risk to persons, property or the environment which was not disclosed to EQ, or if the Customer or generator (if other than the Customer) has changed the process by which such waste results, the Customer shall promptly report such information to EQ in writing.

Customer Indemnity.

The Customer shall indemnify, defend and hold harmless EQ, and its affiliated or related companies, and all of their respective present or future officers, directors, shareholders, employees and agents from and against any and all losses, damages, liabilities, penalties, fines, forfeitures, demands, claims, causes of action, suits, costs and expenses (including, but not limited to, reasonable costs of defense, settlement, and reasonable attorneys' fees), which may be asserted against any or all of them by any person or any governmental agency, or which any or all of them may hereafter suffer, incur, be responsible for or pay out, as a result of or in connection with bodily injuries (including, but not limited to, death, sickness, disease and emotional or mental distress) to any person (including EQ's employees), damage (including, but not limited to, loss of use) to any property (public or private), or any requirements to conduct or incur expense for investigative, removal or remedial expenses in connection with contamination of or adverse effect on the environment, or any violation or alleged violation of any statues, ordinances, orders, rules or regulations of any governmental entity or agency, caused or arising out of (i) a breach of this Agreement by the Customer, (ii) the failure of any warranty of the Customer to be true, accurate and complete, or (iii) any willful or negligent act or omission of the Customer, or its employees or agents in connection with the performance of this Agreement.

Force Majeure

EQ shall not be liable for any failure to accept, receive, handle, treat, and/or dispose of Delivered Waste due to an act of God, fire, casualty, flood, war, strike, lockout, labor trouble, failure of public utilities, equipment failure, facility shutdown, injunction, accident, epidemic, riot, insurrection, destruction of operation or transportation facilities, the inability to procure materials, equipment, or sufficient personnel or energy in order to meet operational needs without the necessity of allocation, the failure or inability to obtain any governmental approvals or to meet Environmental Requirements (including, but not limited to voluntary or involuntary compliance with any act, exercise, assertion, or requirement of any governmental authority) which may temporarily or permanently prohibit operations of EQ, the Customer, or the Generator, or any other circumstances beyond the control of EQ which prevents or delays performance of any of its obligations under this Agreement.

Governing Laws

This Agreement shall in all respects be governed by and shall be construed in accordance with the laws of the State of Michigan applied to contracts executed and performed wholly within such state.

Bulk Disposal Charges

Quoted bulk disposal charges for solid materials will be billed by the cubic yard, if the waste density is less than 2,000lbs./cubic yard. If waste density is greater than 2,000 lbs./cubic yard, then bulk disposal charges will be billed by the ton, regardless of the approved container.

Environmental GEO-Technologies, LLC

March 16, 2017

United States Environmental Protection Agency
Region 5, WU-16J
77 West Jackson Blvd.
Chicago, Illinois 60604-3590
ATTN: UIC Branch, DI Section

Re: Written Report, EGT Injection Parameter Exceedance, Well #2 Injection Pressure (in conformance with MI-163-1W-CO11, Part III.A, page 1 of 3)

Ladies & Gentlemen:

Environmental Geo-Technologies, LLC ("EGT") is writing this report to inform you that one injection parameter, injection pressure, was exceeded on March 11, 2017.

This exceedance occurred at 9:26 am. The pressure reached was 785 psi because of a frozen ¾" pipe where the injection pressure gauge is mounted. A work crew was on site operating Well #1. The Deep Well Operator witnessed the Well #2 injection pressure build up starting at 76 psi. The Deep Well Operator directed employees to turn on a torpedo heater in Well House #2. The heater thawed the pipe and corrected the pressure increase within a couple of minutes, however, a pressure exceedance was later then identified on Tuesday, 03.14.17 at 7:00 am. The shut off alarm was never triggered and Well #2 was never operated. The exceedance was called into Mr. Allan Batka with a voice mail at about 3 pm the same day (03.14.17).

This written report is hereby timely submitted [within five (5) working days of the permittee becoming aware of the circumstance(s)] and in conformance with EGT's UIC Injection Permit # MI-163-1W-C011, Part 1.E.12.d.3 for the occurrence that occurred on 03.11.17 that was verbally reported to Mr. Allan Batka on 03.14.17.

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 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), P. Sullivan (EGT)

rjp031617/EGTEPAWell#1WrittenReport031617