Environmental GEO-Technologies, LLC

September 30, 2015

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 twenty-second 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 also hereby timely submits its fourth Injection Fluid Analyses (for July, 2015) 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 in July.

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), T. Athans (EGT), P.Sullivan (EGT)
att.

rjp093015/EGT EPA Monthly Report-August 2015

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2015

CURRENT REPORTING MONTH August

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	463,875	0	463,875
Since facility first injected			2,981,882
MI-163-1W-C011, Well #2-12			
Current Month	149,800	0	149,800
Since facility first injected			1,713,462
		Lifetime Combined	4,695,344

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 22

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

= 964,260 minutes of injection

Lifetime combined injected volume 4,695,344 × 964,260 minutes of injection

= 4.9 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)
8/1/2015	12.1	35.2	32.8	33.4	900.0	1004.3	2.1	2.1	0.0	0.0	885.1	979.1
8/2/2015	11.3	12.7	32.8	33.1	930.0	944.5	2.1	2.1	0.0	0.0	918.1	932.4
8/3/2015	6.5	733.2	32.7	35.1	865.9	1208.5	1.6	2.2	6.1	75.2	264.5	966.6
8/4/2015	-3.9	745.3	32.7	34.9	858.0	1204.4	1.1	1.8	17.7	72.9	265.2	1008.1
8/5/2015	-0.2	746.9	32.7	35.0	852.9	1205.8	1.4	2.0	14.8	108.6	267.7	1004.9
8/6/2015	-3.0	737.2	32.9	34.5	892.1	1200.7	1.1	3.3	11.6	107.7	305.7	1006.7
8/7/2015	-3.8	728.8	32.8	34.4	897.1	1208.1	1.1	5.4	6.7	105.2	349.4	1003.7
8/8/2015	-2.8	-0.7	32.5	33.1	900.0	1005.1	4.4	4.9	0.0	0.0	902.0	1006.4
8/9/2015	-3.1	-2.2	32.5	32.6	977.1	992.8	4.2	4.4	0.0	0.0	979.6	995.5
8/10/2015	-8.3	746.4	32.5	34.7	896.6	1200.3	0.7	5.0	12.7	92.2	260.7	1014.4
8/11/2015	-8.3	-5.7	32.6	32.8	944.7	995.8	1.1	1.2	0.0	0.0	950.8	1004.0
8/12/2015	-6.7	-5.8	32.6	32.8	931.0	944.8	1.1	1.2	0.0	0.0	937.2	951.4
8/13/2015	-6.6	730.1	32.6	34.9	843.3	1203.8	1.2	2.4	15.1	116.2	265.2	980.3
8/14/2015	-6.6	746.3	32.5	35.0	864.6	1199.9	1.0	2.6	11.9	91.9	240.0	1012.5
8/15/2015	-6.7	764.4	32.5	35.3	763.5	1206.4	1.8	6.6	10.8	209.1	249.1	1003.3
8/16/2015	-1.7	2.5	32.5	33.2	900.0	1006.7	2.0	2.1	0.0	0.0	901.3	1004.5
8/17/2015	-1.9	755.8	32.5	34.9	884.5	1203.9	1.8	2.5	11.1	100.3	226.1	972.4
8/18/2015	42.9	751.6	33.1	35.4	884.1	1206.6	1.7	2.5	25.0	83.3	218.3	945.3
8/19/2015	80.0	745.0	33.8	35.2	897.4	1199.5	1.4	2.4	37.1	73.7	239.9	914.8
8/20/2015	68.7	746.8	33.1	35.5	846.2	1209.0	1.7	3.0	33.5	86.8	254.5	921.5
8/21/2015	56.0	748.3	33.3	35.6	859.5	1201.9	1.3	2.6	28.2	83.3	252.6	937.0
8/22/2015	46.6	730.5	33.2	34.4	900.0	1203.3	1.6	2.1	11.3	75.3	323.9	920.3
8/23/2015	97.3	111.5	32.7	33.3	900.0	1004.6	1.7	1.8	0.0	0.0	801.5	899.4
8/24/2015	63.5	752.1	32.6	35.4	872.3	1208.0	1.6	2.4	31.5	84.1	230.4	927.7
8/25/2015	52.7	746.7	33.0	35.1	888.7	1207.6	1.9	2.2	15.1	69.2	221.5	940.8
8/26/2015	-1.1	748.7	32.9	34.5	891.0	1206.2	1.8	2.5	6.1	74.1	331.1	1007.2
8/27/2015	-1.2	745.8	32.5	34.4	886.5	1202.3	1.8	2.6	3.5	75.8	235.1	1003.7
8/28/2015	-0.2	751.9	32.5	34.5	894.6	1201.5	2.0	2.8	8.6	77.5	280.8	977.2
8/29/2015	46.9	51.4	32.7	32.9	913.0	946.0	2.5	2.6	0.0	0.0	865.5	895.1
8/30/2015	45.6	47.5	32.7	33.0	901.6	913.0	2.5	2.5	0.0	0.0	855.6	866.2
8/31/2015	31.1	739.5	32.4	33.9	899.9	1204.4	1.8	3.0	3.6	61.8	340.6	957.7

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

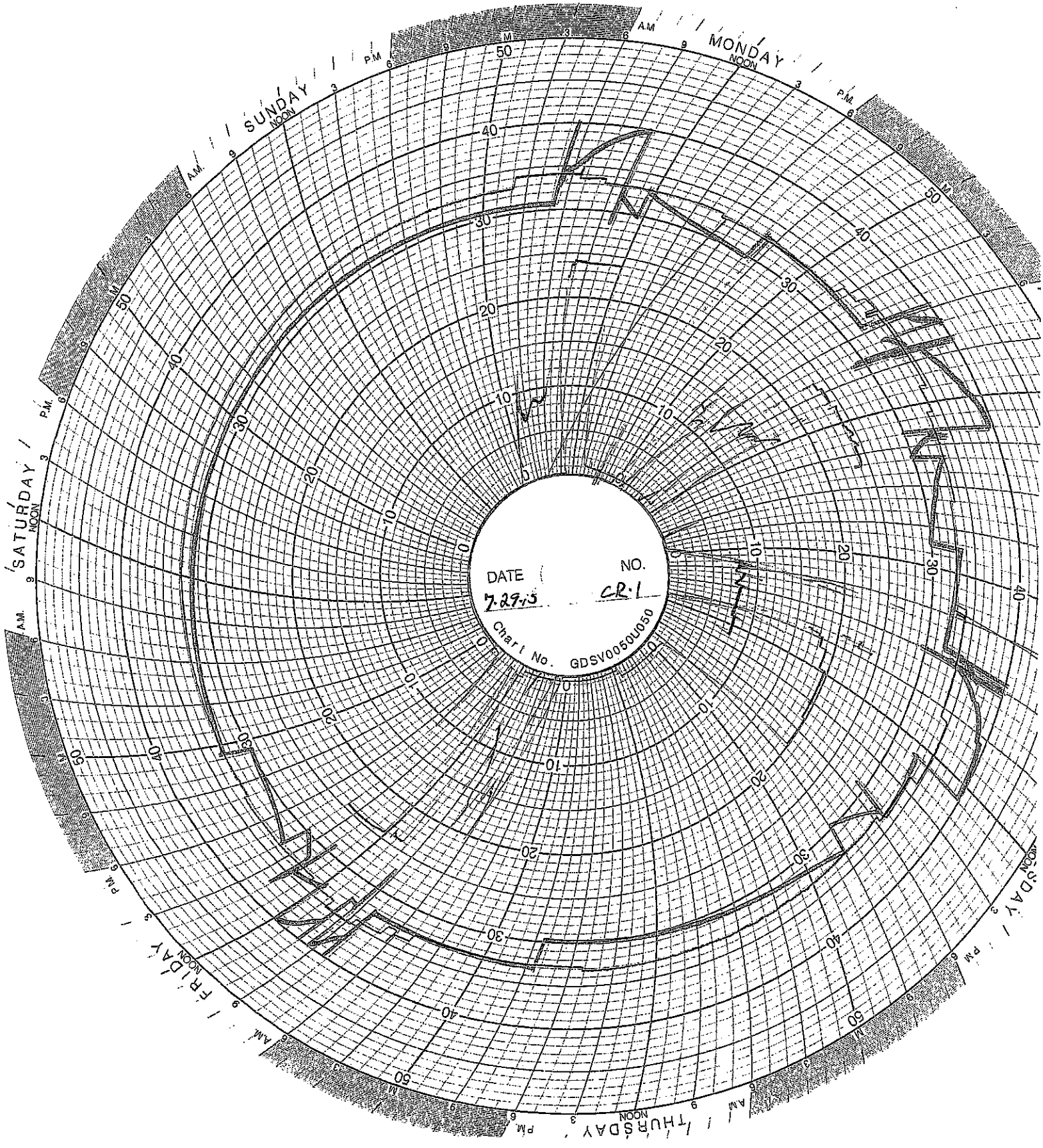
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature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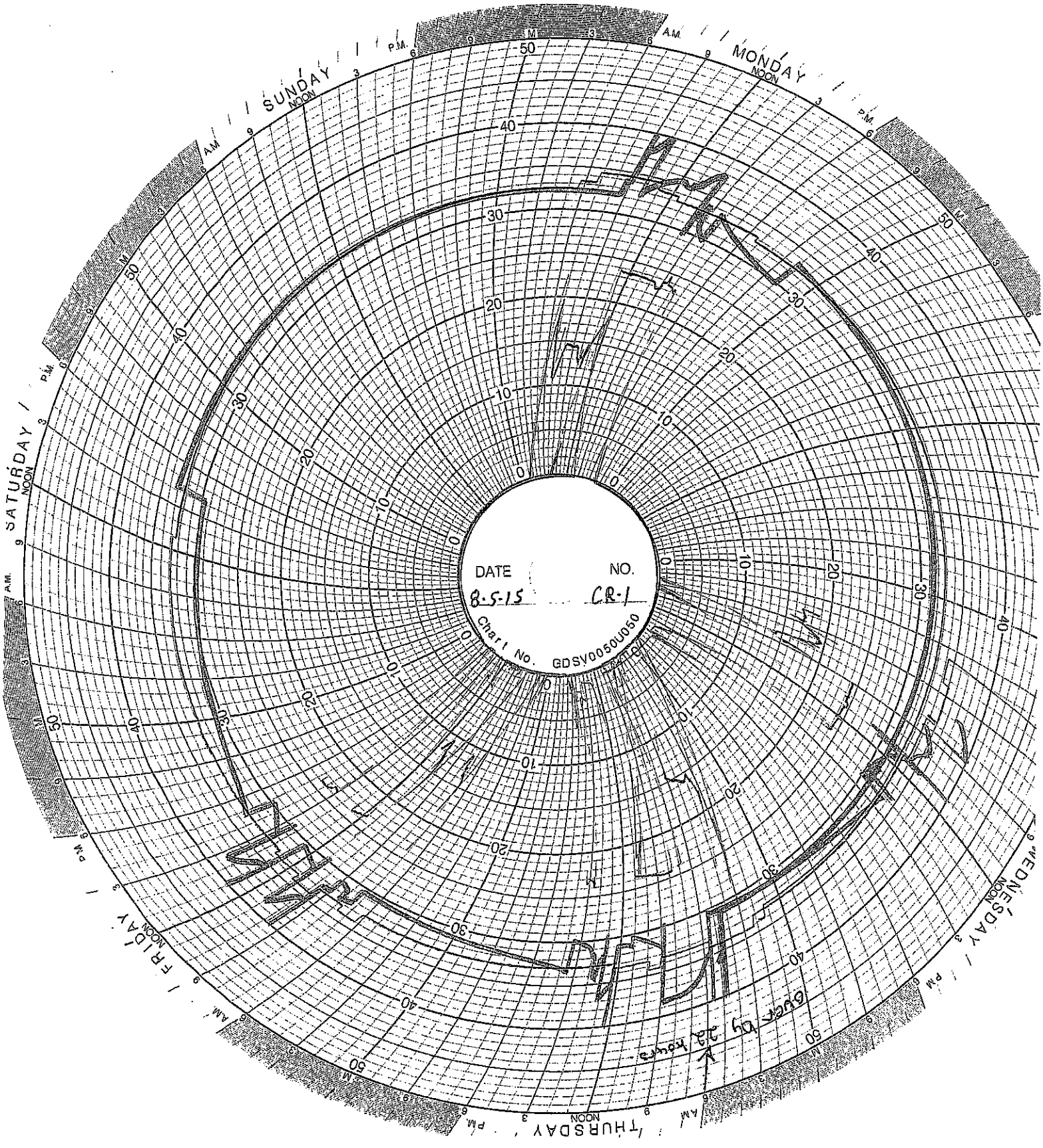
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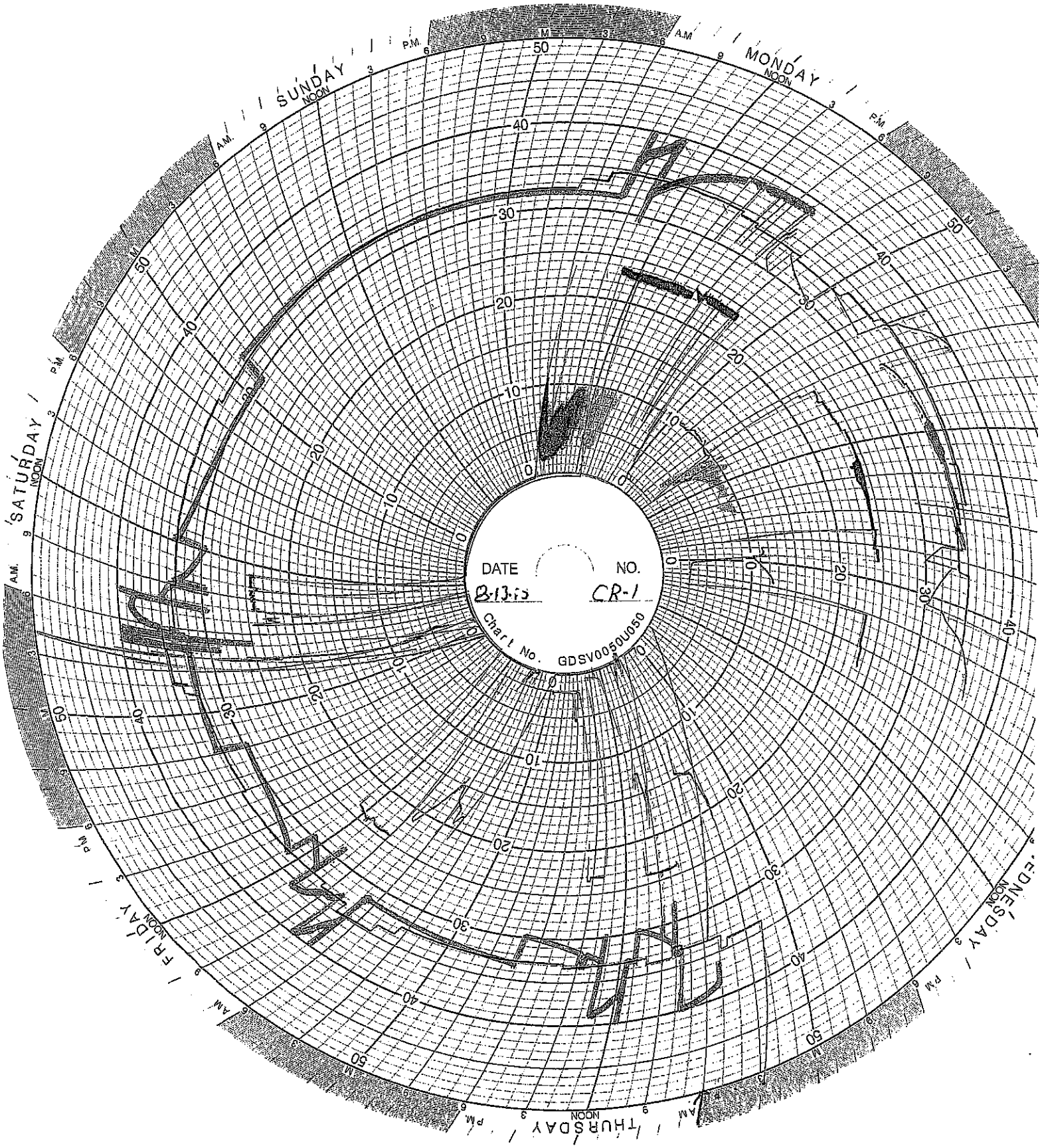
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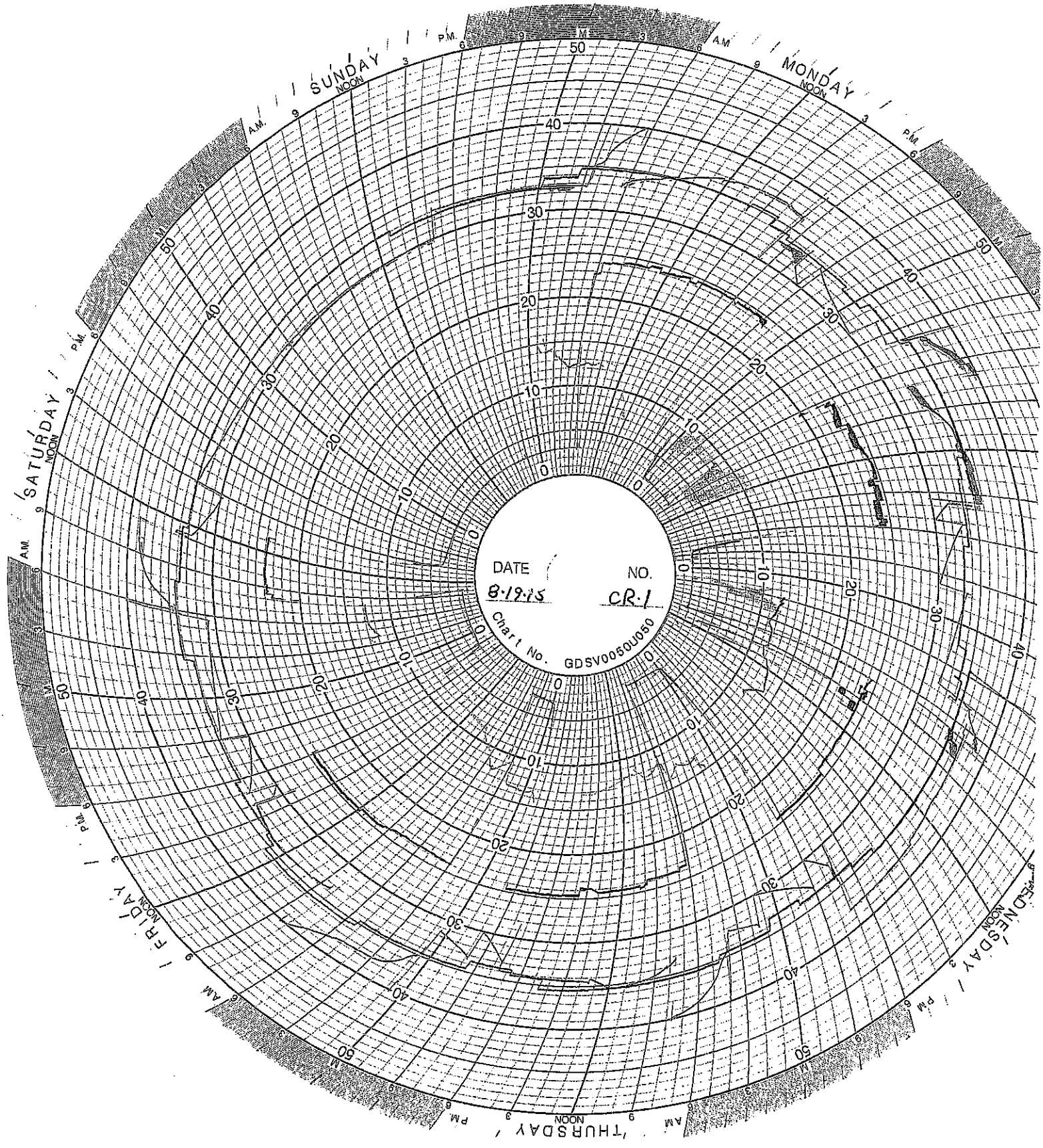
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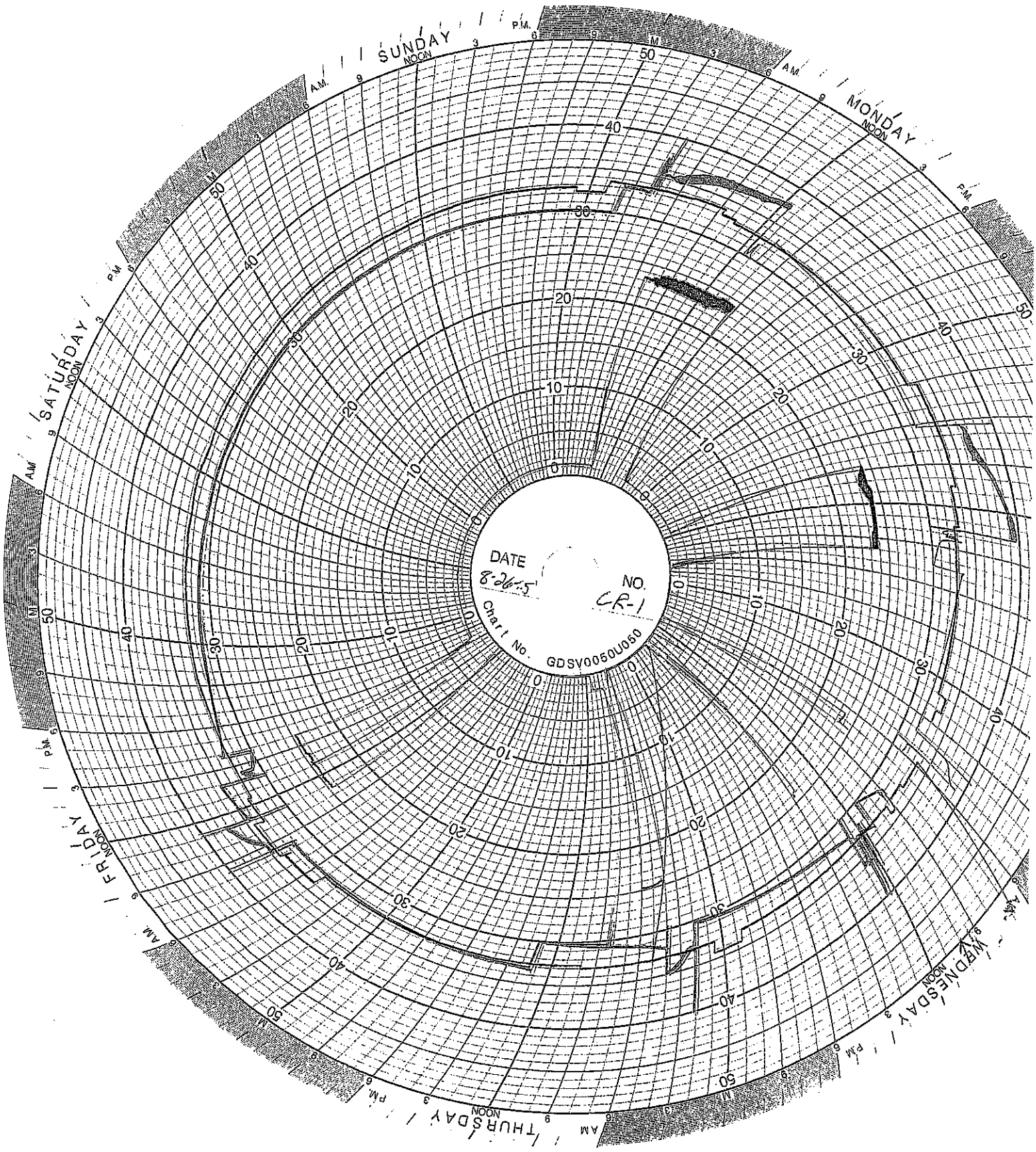
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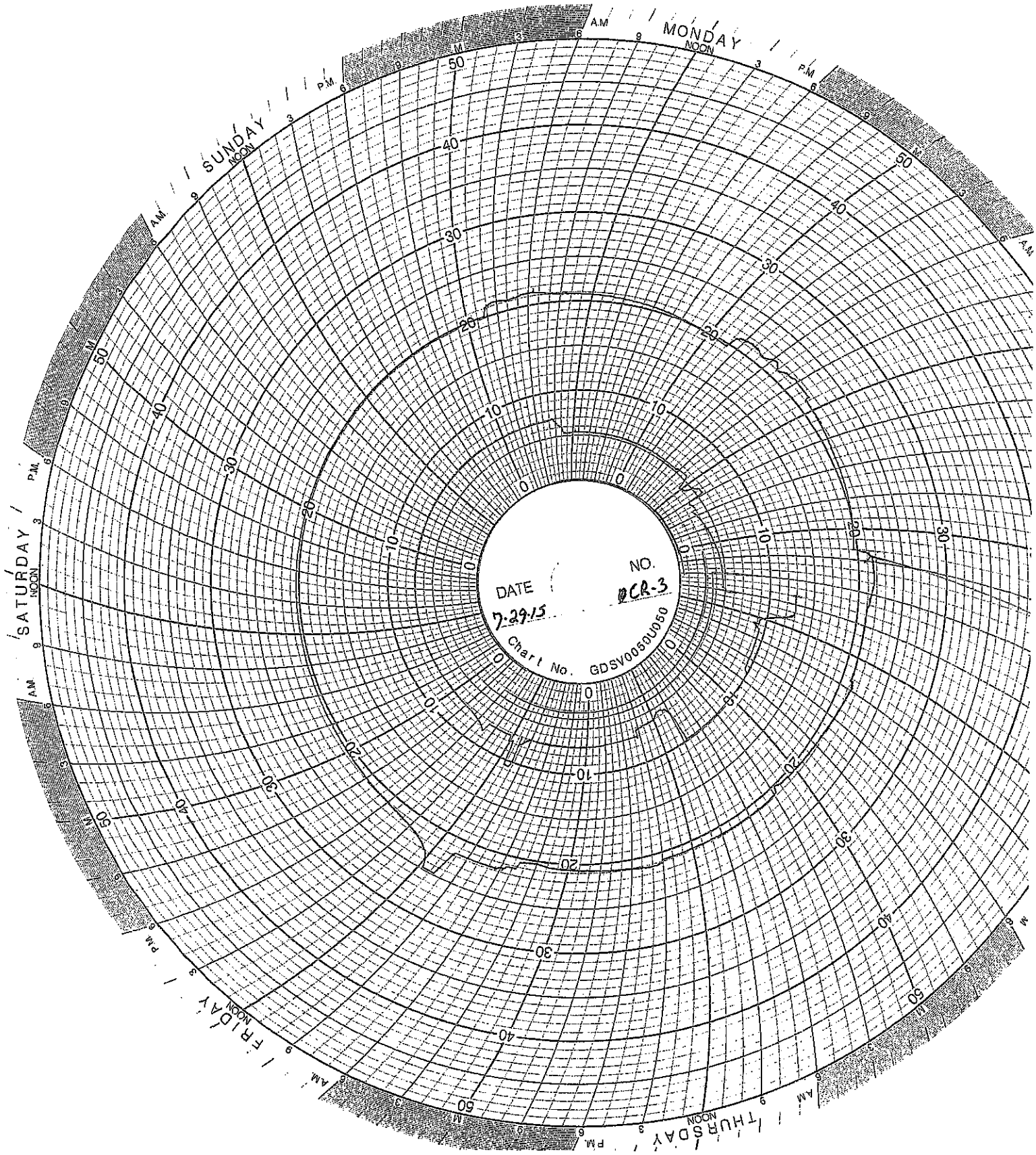
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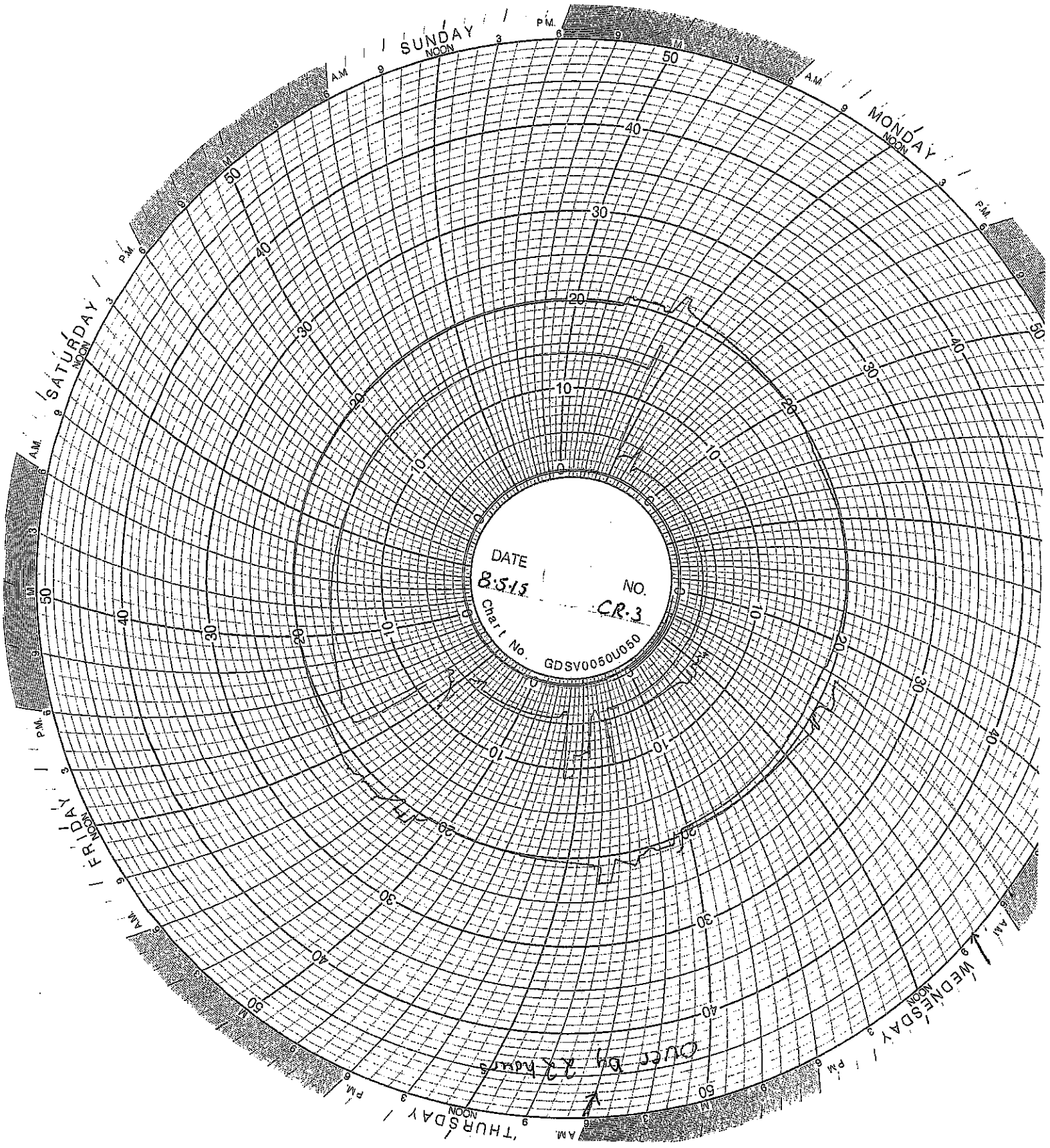
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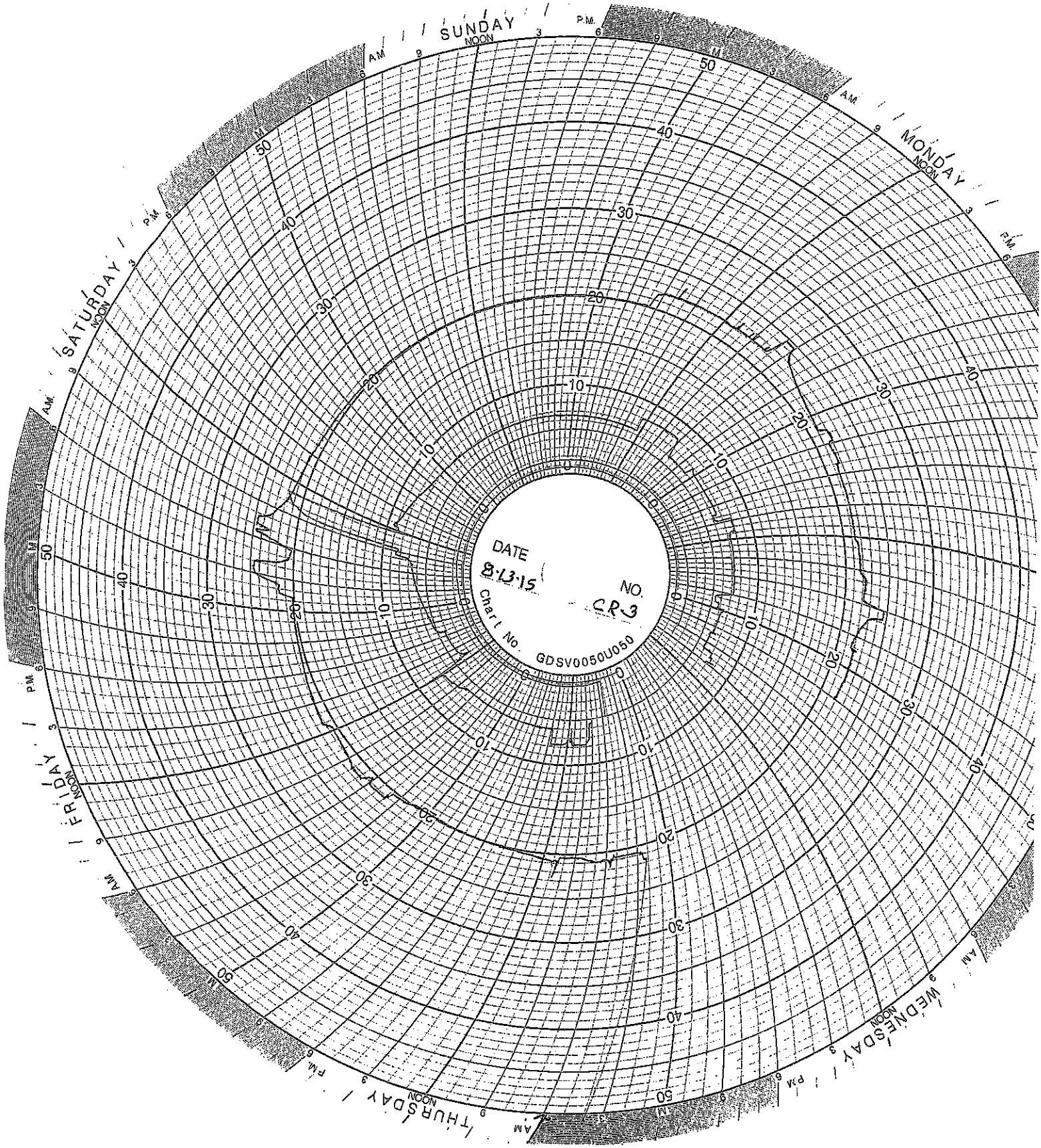
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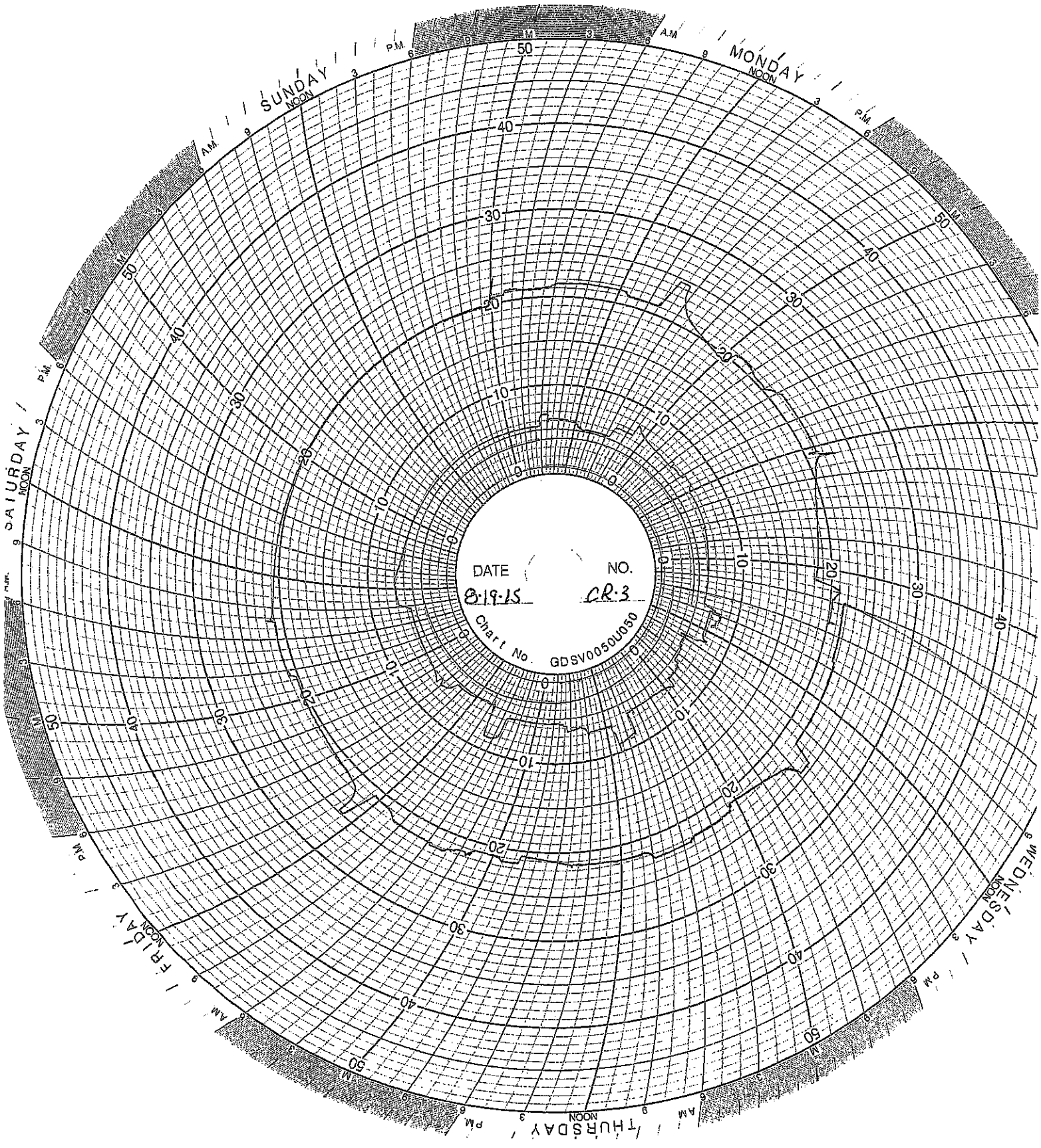
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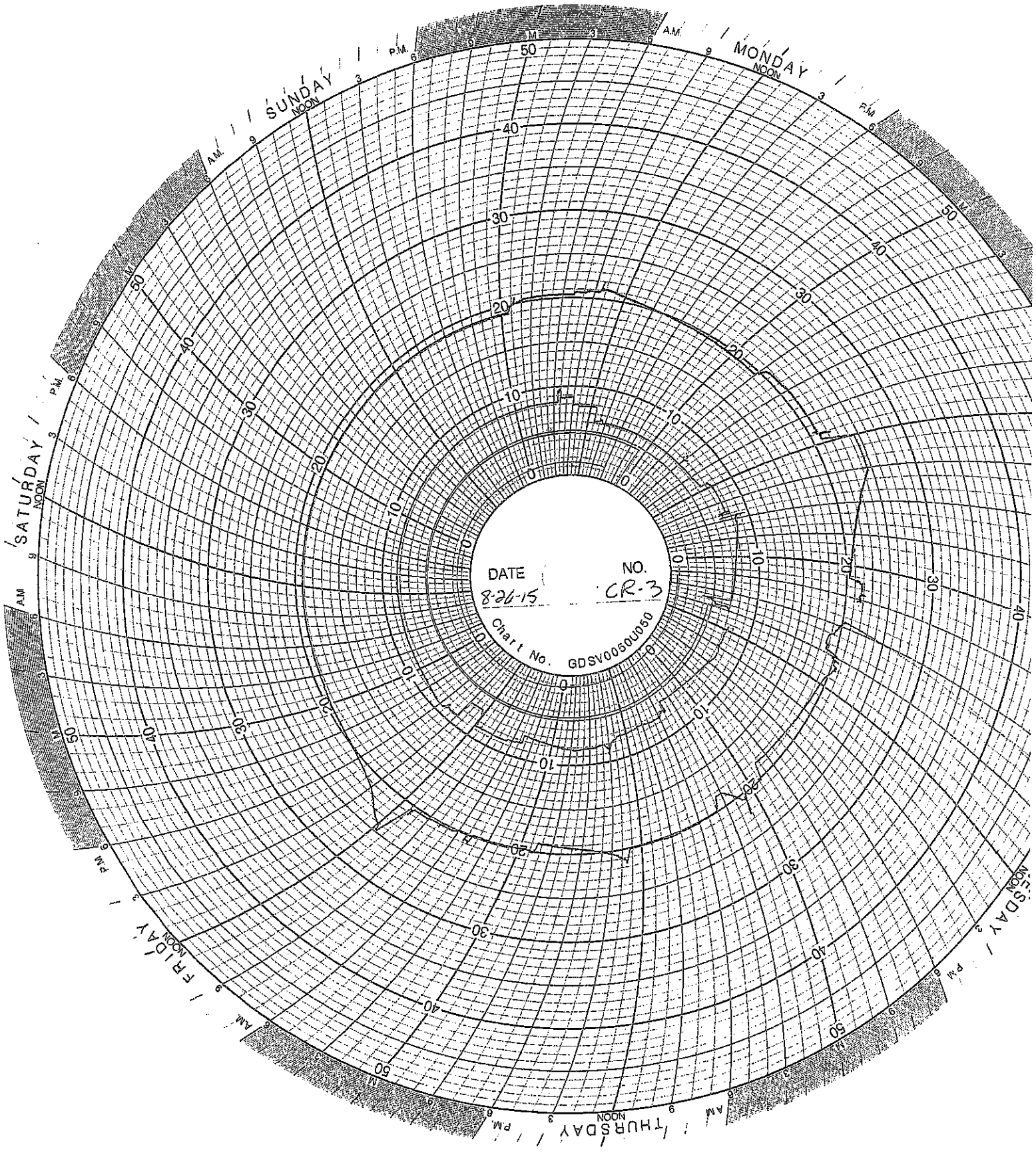
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WELL 2 DATA

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)
8/1/2015	28.4	43.0	19.4	20.6	299.9	404.4	2.1	2.1	0.0	0.0	270.5	369.5
8/2/2015	27.4	28.5	19.4	20.2	372.6	384.9	2.1	2.1	0.0	0.0	345.1	356.4
8/3/2015	-4.3	47.6	19.3	20.0	352.6	373.2	1.6	2.2	0.0	30.9	321.7	373.7
8/4/2015	-6.7	746.8	17.0	22.4	299.7	1200.7	1.1	1.8	17.2	82.4	245.1	997.1
8/5/2015	-3.7	746.2	16.9	21.2	313.3	1204.7	1.4	2.0	8.0	130.1	234.5	1009.8
8/6/2015	-6.8	745.9	16.8	21.3	300.0	1200.0	1.1	3.3	11.7	98.5	251.3	985.2
8/7/2015	-10.0	747.8	16.6	20.9	300.0	1202.0	1.1	5.4	8.0	175.3	189.2	1021.1
8/8/2015	-6.1	-5.4	18.8	19.4	300.0	408.4	4.4	4.9	0.0	0.0	305.9	413.9
8/9/2015	-5.7	-5.4	18.5	19.3	326.3	342.0	4.2	4.4	0.0	0.0	331.9	347.6
8/10/2015	-5.7	746.8	16.1	21.2	299.9	1201.4	0.7	5.0	8.9	88.6	277.1	967.1
8/11/2015	-5.4	-4.6	18.8	19.4	326.9	399.6	1.1	1.2	0.0	12.5	332.2	404.3
8/12/2015	-5.8	-5.3	18.8	18.9	313.7	327.2	1.1	1.2	0.0	0.0	319.5	332.6
8/13/2015	-5.9	-4.9	18.8	19.1	309.2	314.4	1.2	2.4	0.0	0.0	314.6	320.1
8/14/2015	-5.8	-4.7	18.5	19.3	305.4	309.8	1.0	2.6	0.0	0.0	310.8	315.2
8/15/2015	-5.8	-4.9	18.6	19.3	302.2	306.0	1.8	6.6	0.0	0.5	307.8	311.5
8/16/2015	-6.1	-5.6	18.0	19.3	299.9	407.7	2.0	2.1	0.0	0.0	305.8	413.4
8/17/2015	-6.2	-5.5	18.0	18.8	396.7	400.6	1.8	2.5	0.0	0.0	402.3	406.7
8/18/2015	-6.0	-4.8	18.1	18.9	394.7	397.0	1.7	2.5	0.0	0.0	399.7	402.7
8/19/2015	-5.2	-3.7	18.1	18.8	393.5	395.4	1.4	2.4	0.0	0.0	397.8	400.2
8/20/2015	-4.9	-3.5	18.2	18.8	391.0	394.1	1.7	3.0	0.0	0.0	395.0	398.2
8/21/2015	-4.6	-3.6	18.0	18.8	388.1	391.7	1.3	2.6	0.0	0.0	392.6	395.6
8/22/2015	-5.3	-4.3	18.1	18.9	384.9	388.7	1.6	2.1	0.0	0.0	390.0	393.3
8/23/2015	-5.9	-5.2	18.0	18.8	381.7	385.5	1.7	1.8	0.0	0.0	387.5	390.7
8/24/2015	-6.0	-4.4	18.0	18.8	380.6	384.1	1.6	2.4	0.0	0.6	386.5	388.7
8/25/2015	-5.4	-4.8	18.3	18.5	379.4	382.8	1.9	2.2	0.0	0.6	384.7	387.6
8/26/2015	-5.8	722.8	16.5	18.4	378.0	1134.7	1.8	2.5	1.2	115.1	132.5	823.1
8/27/2015	2.4	750.7	14.0	19.0	769.5	1206.4	1.8	2.6	19.5	87.6	157.2	1001.1
8/28/2015	1.7	746.3	13.1	17.1	299.8	1203.1	2.0	2.8	19.2	89.6	-14.4	994.3
8/29/2015	43.8	58.4	15.2	15.8	300.1	404.8	2.5	2.6	0.0	0.0	253.8	352.6
8/30/2015	41.9	43.9	14.8	15.8	348.5	367.5	2.5	2.5	0.0	0.0	306.5	323.7
8/31/2015	2.8	733.9	12.9	17.3	299.8	1202.4	1.8	3.0	10.2	68.2	138.1	826.7

Circle Chart Index

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

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen – Well 1 Annulus Pressure

Channel #3

Green Pen – Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen – Well 2 Injection Pressure

Channel #2

Red Pen – Well 2 Annulus Pressure

Channel #3

Green Pen – Well 2 Flow Rate

Channel #4

Black Pen – Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen – Injection pH Well 1 & 2

Channel #2

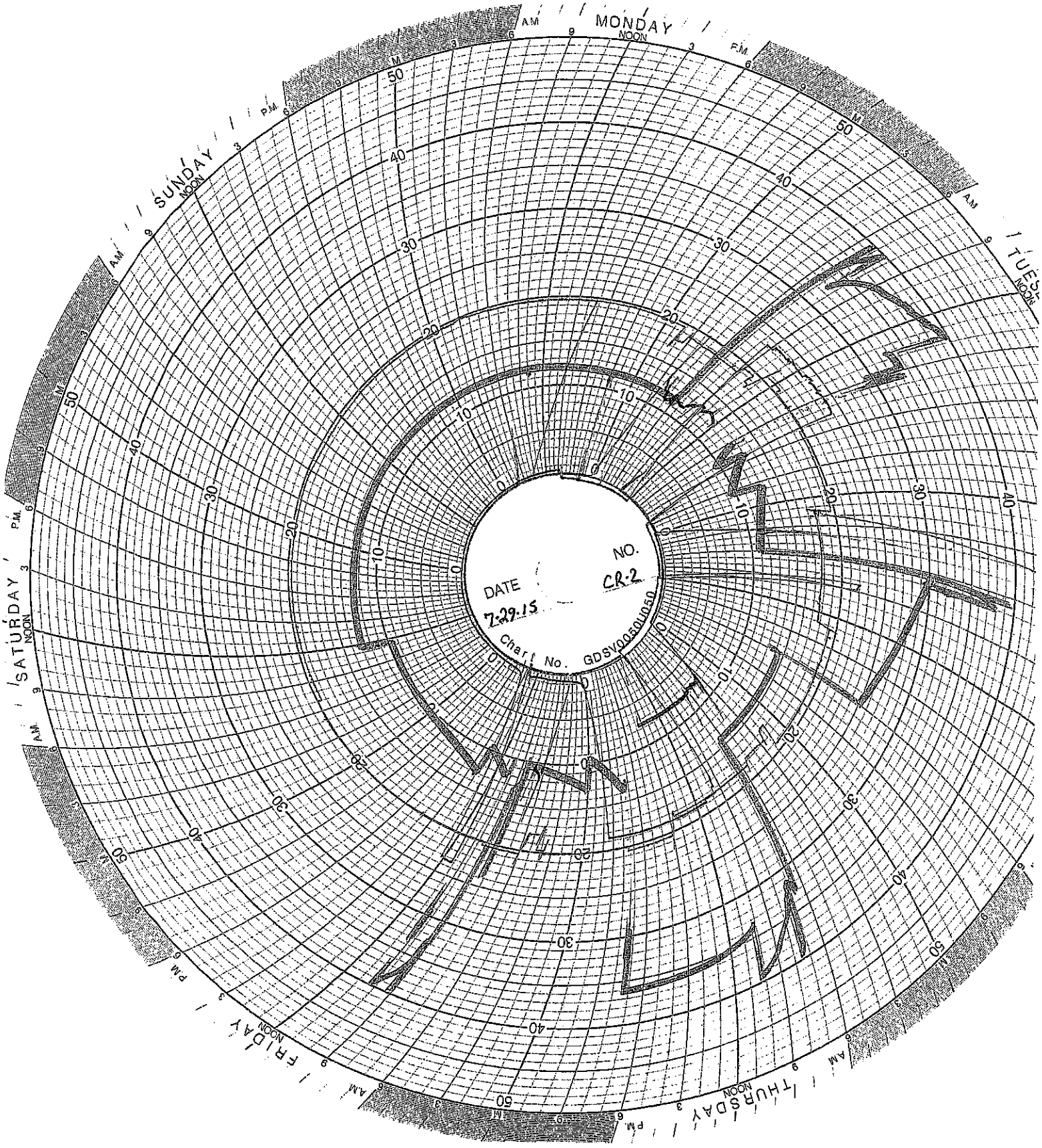
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature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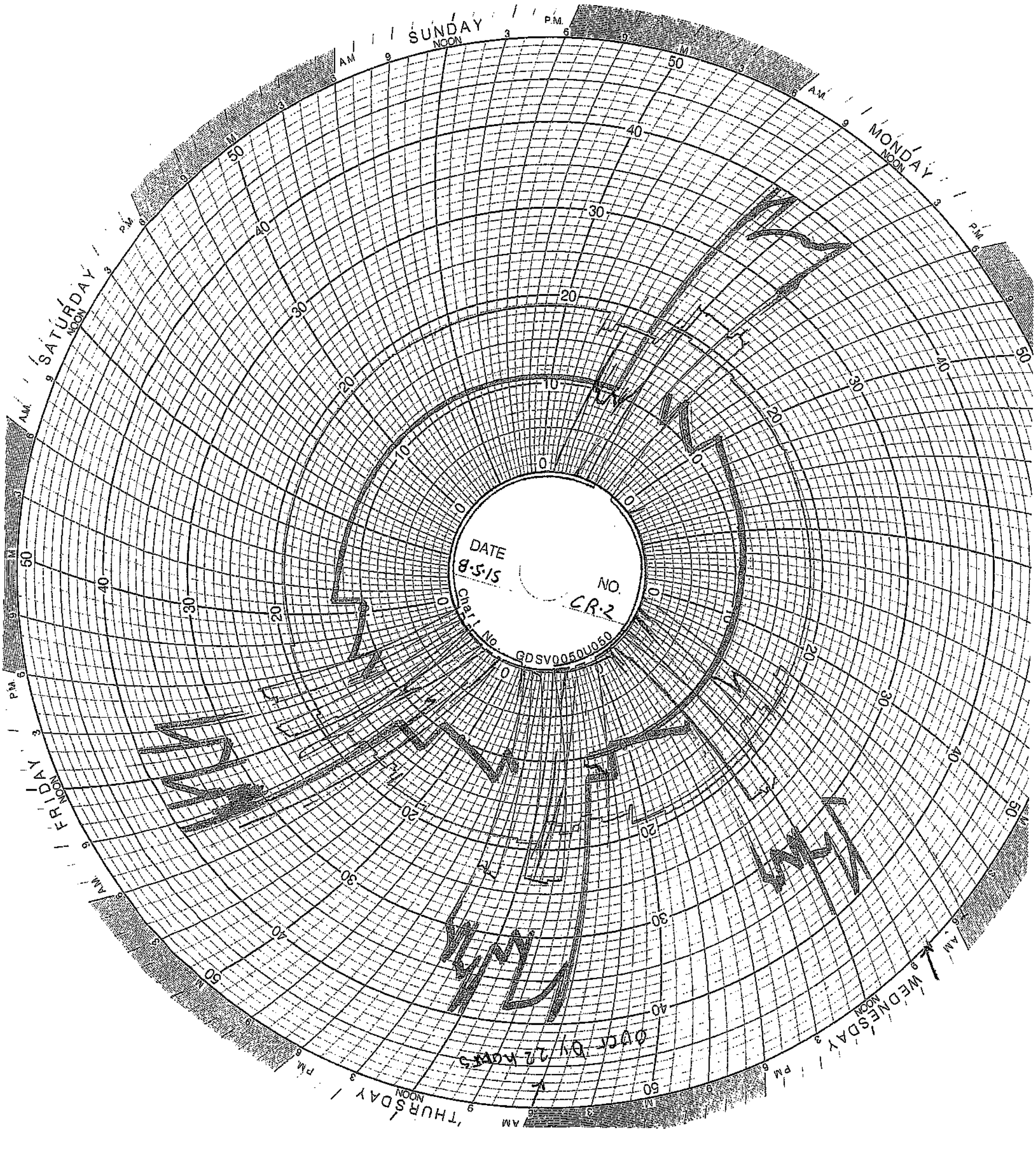
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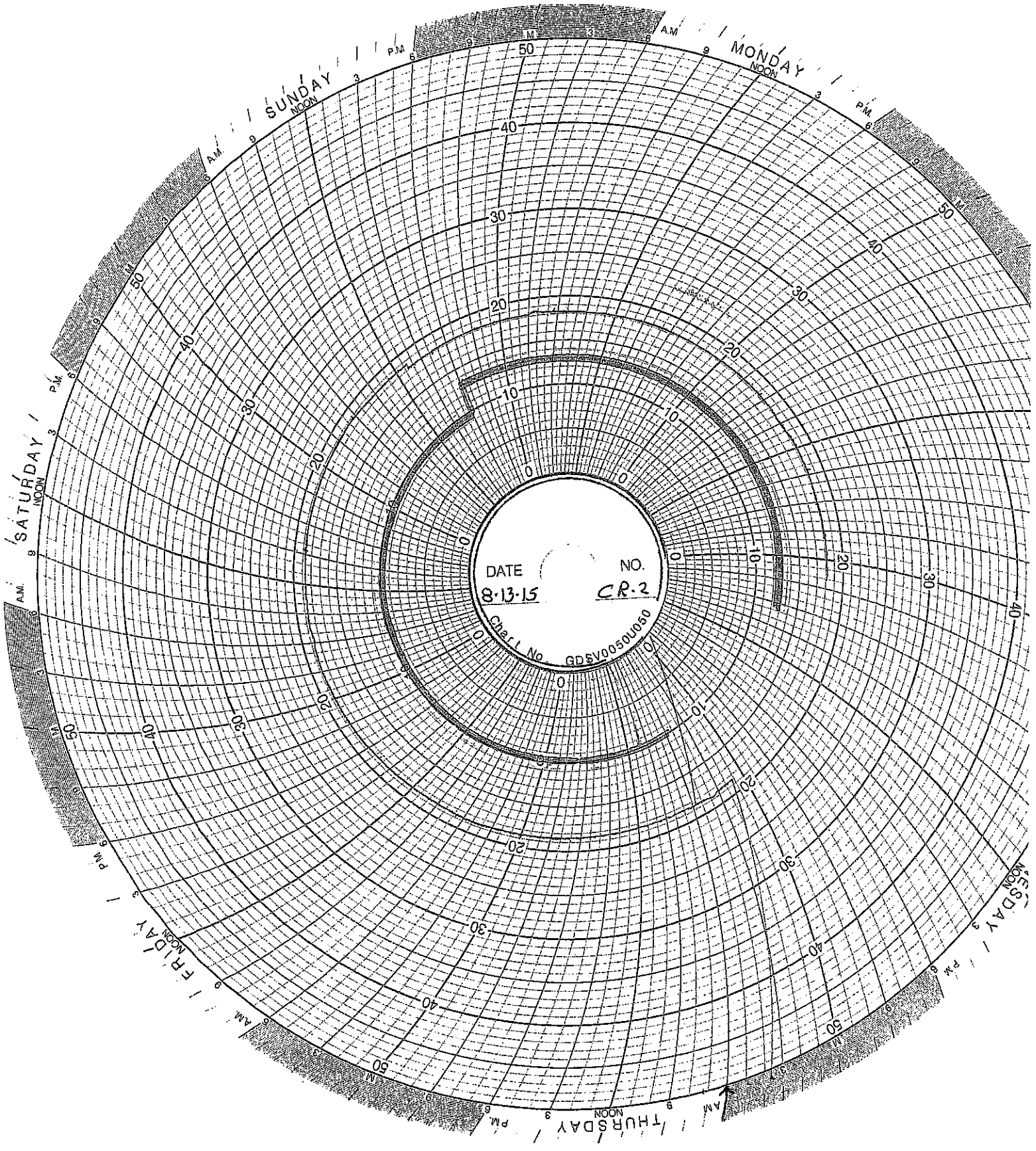
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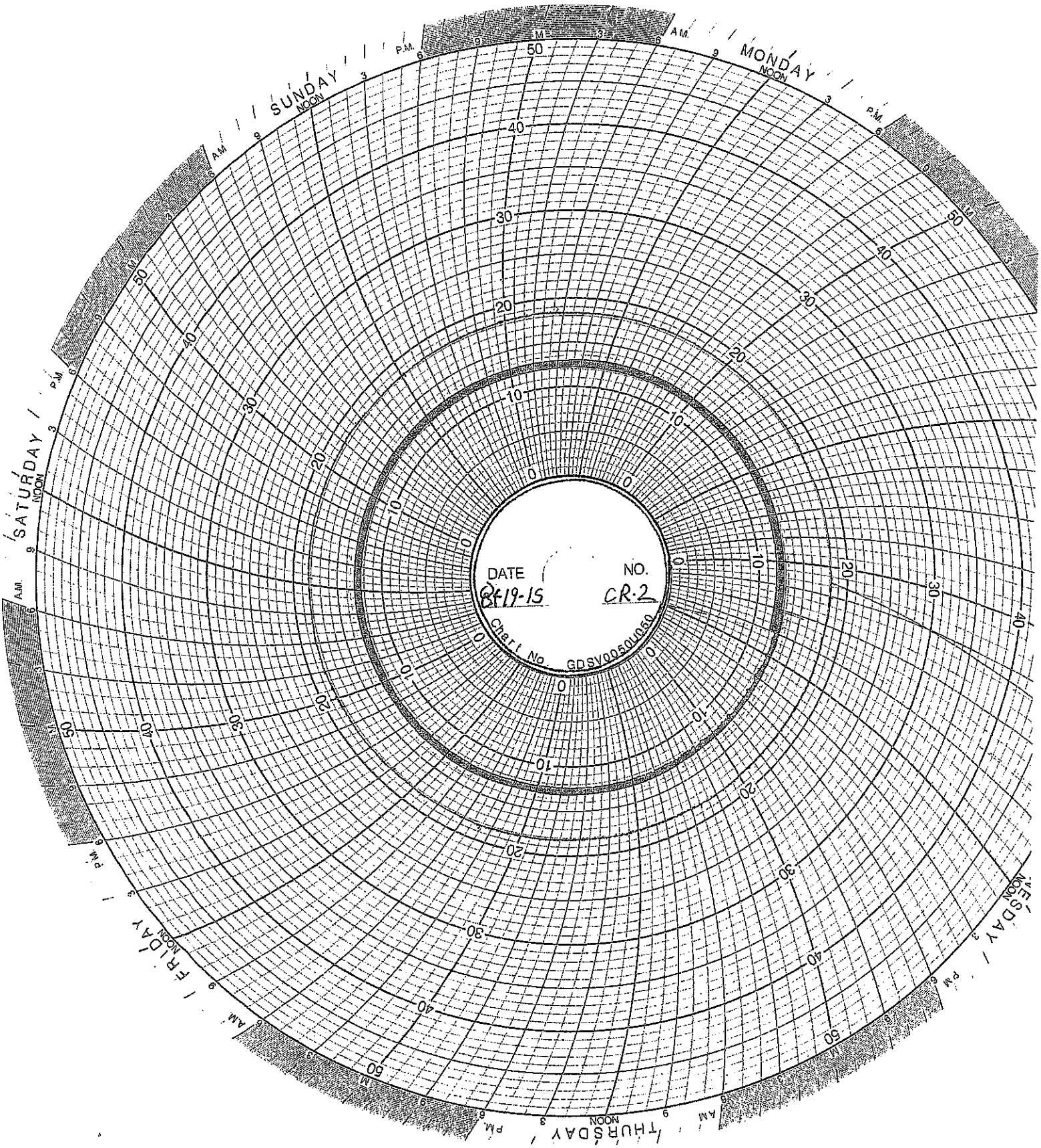
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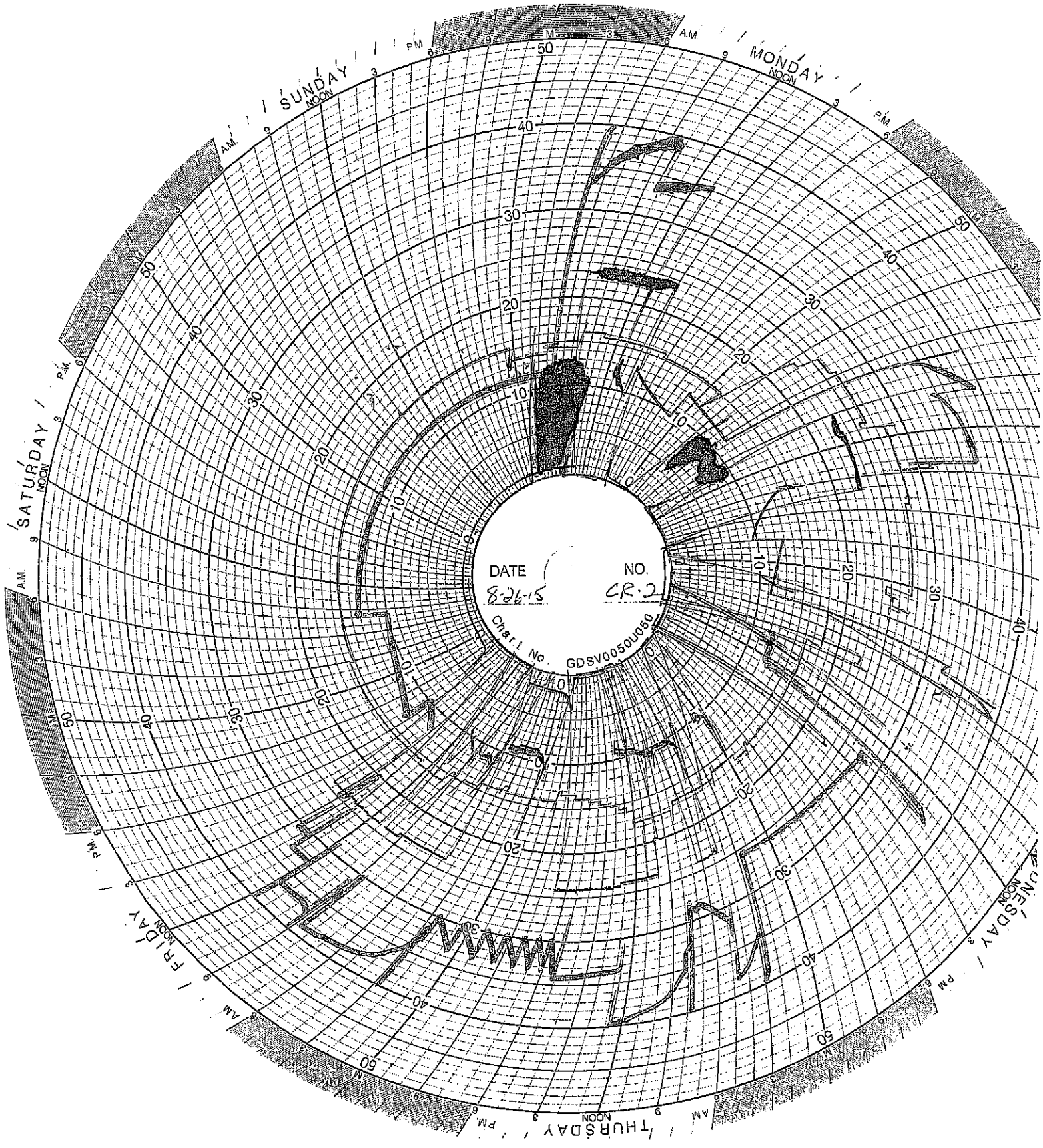
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CR-2
Chart No.
GDSV0050U050

MAINTENANCE LOG

UIC Monthly Maintenance Log

8/3/2015	Well 2 Isolation valve	Repaired pipeline at the isolation valve
8/7/2015	Well 2 Injection pump removed	Injection pump was removed and sent out for repairs to the mechanical seal
8/7/2015	Injection pH probe	Replaced the salt bridge on the injection pH probe
8/13/2015	SST Tank	Replaced the solenoid on the SST inlet valve
8/24/2015	Well 2 discharge pipe repair	The valve port on injection pump 2 discharge pipe was removed and welded closed.
8/25/2015	Well 1 discharge pipe repair	Welded a hole in the seam of the discharge pipe
8/26/2015	Well 1&2 discharge tee	Installed pipe tees in discharge piping of both injection pumps
8/26/2015	Wellhead 2	Replaced the 2" nipple that mounts the injection gauge

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 COUPONS VISUAL DESCRIPTION

Aug 26, 2015

Fiberglass Coupon
The observation is the same as last Month. The coupon is dark orange (rust) in color with similar semi-smooth textures on both sides. There is a black coating on the coupon. Its cut edges appear sanded. The coupon is free of pits, cracks, swelling, wicking and blemishes.

Hastelloy Coupon
This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes.

Stainless Steel Coupon
The coupon is silver in color with a pock-marked and corroded 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	

GHESQUIERE PLASTIC TESTING, INC.

20460 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3535
FAX (313) 885-1771

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/kni

TOTAL 1 PAGES

GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	Hardness
Specimen 1	90

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

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

MWG/dm

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

st

INJECTION
FINGERPRINTS

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, L.L.C.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/3/15
Receiving ID#	I08031501
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 All Waste Shipments		Oilfield Brines Only	
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.)	2.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	3.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	77°F		
Conductivity	78.3 mS		
% Solids	3.9		
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	8/4/15
Receiving ID#	I 08041501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	RR

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	1.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.7%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	82°F		
Conductivity	93.2 mS		
% Solids	4.7		
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	8/04/15
Receiving ID#	I0804150 2
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	1.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4,19.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	81.9 ms		
% Solids	4.1		
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	8/4/15
Receiving ID#	I08041503
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION: All Waste Shipments		Oilfield Brines Only	
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	1.08	TDS	4.87.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	80°F		
Conductivity	96.1 mS		
% Solids	4.8		
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	8/5/15
Receiving ID#	I08051501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BB

COPY

LAB INFORMATION All Waste Streams		Oilfield Brines Only	
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	1.08	TDS	8.92
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	81°F		
Conductivity	177.3 mS		
% Solids	8.9		
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	8/5/15
Receiving ID#	I 0805 1502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Offsite Brines Only	
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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.11	TDS	6.27.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	80°F		
Conductivity	123.5 mS		
% Solids	6.2		
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	8/6/15
Receiving ID#	I08061501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	5.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	100.8 mS		
% Solids	5.1		
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	8/6/15
Receiving ID#	I08061502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.T.
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	3.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.18	TDS	5.8%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	85°F		
Conductivity	116.1 mS		
% Solids	5.8		
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	8/2/15
Receiving ID#	ID8071501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	RPS.H.

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.28	TDS	7.89
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	77°F		
Conductivity	154.5 mS		
% Solids	7.8		
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	8/7/15
Receiving ID#	I0807502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	BP

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.07.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	79.9 mS		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.5		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/10/15
Receiving ID#	I 08101501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION: All Waste Shipments:		Oilfield Brines Only:	
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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.62.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	72°F		
Conductivity	91.8 mS		
% Solids	4.6		
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	8/10/15
Receiving ID#	I08101502
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: All Waste Shipments:		Oilfield Brines Only:	
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.1
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	40.9 ms		
% Solids	2.1		
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	8-13-15
Receiving ID#	I 081315O1
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	J.H.

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	4.82
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	77°F		
Conductivity	95.7 mS		
% Solids	4.8		
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	8/13/15
Receiving ID#	I08131502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	1.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	2.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	76°F		
Conductivity	53.1 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

RECEIVING INFORMATION	
Date	8/14/15
Receiving ID#	I08141501
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	SB

COPY

LAB INFORMATION			
All Waste Streams		Oilfield Brines Only	
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	1.07	TDS	4.17
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	79°F		
Conductivity	81.9mS		
% Solids	4.1		
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	8/15/15
Receiving ID#	I08151501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	O.H.
Sampled by	JKF

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.27	TDS	7.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	153.2 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

RECEIVING INFORMATION	
Date	8/17/15
Receiving ID#	160715 01
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 All Waste Shipments		Oilfield Brines Only	
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.)	2.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	4.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	82°F		
Conductivity	96.4 mS		
% Solids	4.8		
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	8/18/15
Receiving ID#	T08181502
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 All Waste Shipments		Oilfield Brines Only	
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	1.04	TDS	2.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	80°F		
Conductivity	46.4 mS		
% Solids	2.4		
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	8/18/15
Receiving ID#	T 08181501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BT

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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	1.03	TDS	1.52
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	79°F		
Conductivity	28.8 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	8/31/15
Receiving ID#	T 0831502
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	G.K.

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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	1.06	TDS	3.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	78°F		
Conductivity	78.0 mS		
% Solids	3.9		
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	8/31/15
Receiving ID#	T 08311501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RD

COPY

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	2.72.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73° F		
Conductivity	54.7 mS		
% Solids	2.7		
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 # 00691

GENERATOR INFORMATION

Name: [redacted]

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

City: Hanover_____ State: PA Zip Cod[redacted]

Contact: [redacted] Fax: ( )_____

BILLING INFORMATION

☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

Cit[redacted] Cod[redacted]

Attention: [redacted])_____

WASTE INFORMATION

Name of Waste/Common Chemical Name: Waste Water from Firefighting._____

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

Waste water was generated as a byproduct of a fire[redacted]d contents were destroyed. Water was contained onsite in frac tanks._

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: X☐ Non Hazardous Liquid Industrial Waste ☐ Hazardous Waste
2. Regulated by TSCA? ☐Yes X☐No (PCBs, etc.)
3. List ALL Applicable Waste Codes: 029L _____ _____ _____ _____ _____ _____ _____ _____

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids	Layers:	Specific Gravity:	
☐ White/Clear ☐ Black/Brown X☐ Other light purple to dark brown_	☐ 0-1 % X☐ 3-5 % ☐ 1-3 % ☒ > 5%	☐ Multi-Layered ☐ Bi-Layered X☐ Single Phase	☐<0.8 ☐ 1.0 – 1.2 X☐ 0.8 –1.0 ☐ 1.3 – 1.4 Exact / Other _____	acceptable 080415

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

Liquid Flash Point: ☐ <73°F ☐ 73 – 100°F ☐ 101 – 140°F ☐ 141 – 200°F X☐ >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	90	100 %	ZN	0.66 PPM	%
NI	0.18 ppm	%	CO	0.69 ppm	%
FE	50	ppm %			
		%			%
		%			%

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

	Not Present	Concentration		Not Present	Concentration	
D004	X☐	< 5	ppm	____	ppm	Arsenic (As)
Barium (Ba)	D005	X☐	<100	ppm	____	ppm
PCB	☐	_ND___	ppm			
Aromatic Amine	☐	_ND___	ppm			
Cadmium (Cd)	D006	X☐	< 1 ppm	____	ppm	
Dioxins	☐	____	ppm			
Pesticides	☐	_ND___	ppm			
Chromium (Cr)	D007	☒	< 5 ppm	____	ppm	
Cyanides Reactive	☐	_<0.010___	ppm			
Rodenticides	☐	____	ppm			
Lead (Pb)	D008	☒	< 5 ppm	____	ppm	
Cyanides Total	☐	____	ppm			
Fungicides	☐	____	ppm			
Mercury (Hg)	D009	X☒	< 0.2 ppm	____	ppm	
Sulfides Reactive	☐	_<0.010___	ppm			
Selenium (Se)	D010	☒	< 1 ppm	____	ppm	
Sulfides Total	☐	____	ppm			
Silver (Ag)	D011	☒	< 5 ppm	____	ppm	

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

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 X☐ None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☐Yes X☐No
2. *Reportable Quantity (RQ) In pounds* _____
3. DOT Shipping Name _NON HAZ NON REG_____ Hazard Class _____ UN/NA _____

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

4. Method of Shipment: X☐Bulk Tanker ☐Vac truck
☐Rail Car ☐Drums ☐Totes
5. Number of Units to Ship Now: _____300_____ 6. Anticipated Volume / Units per Year: _____ or X☐ 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 ch[redacted] regulatory requirements.

Printed Na[redacted]

Generator's Signatur[redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ SAMPLING METHOD 2. _____ COLLECTION POINT

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

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

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

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

[redacted]

I. [redacted]

II. Supplemental List of Additional Chemicals Use[redacted] The Production of Its Products. The MSDS for each chemical listed below is available via a Google search.

- Ammonium Sulfate
- Boric Acid
- Calcium Acetate
- FeEDDHA
- Diammonium Phosphate
- Calcium Nitrate
- Calcium Chelate
- Copper Chelate
- Iron Chelate
- Manganese Chelate
- Magnesium Sulfate
- Magnesium Nitrate
- Monoammonium Phosphate
- Monopotassium Phosphate
- Potassium Nitrate
- Potassium Lactate
- Potassium Sulfate
- Succinic Acid
- Urea
- Zinc Sulfate

[redacted]

The chemicals leaked in firefighting runoff into the [redacted] leading to the deaths of more than 10,000 fish.

[redacted]

POSTED: 06/26/2015 01:54:56 PM EDT

0 COMMENTS

[redacted] ified a list of products and chemicals Friday that were be[redacted] stored in the [redacted] acility at the time of the June 8 blaze.

Many of the products on the list were water soluble fertilizers used for commercial agricultural crops, said [redacted] supplemental list of additional [redacted] the production of its products was also included in a list identified by [redacted]

The supp[redacted]al list and link provided [redacted] a [redacted] website. [redacted] noted Friday that access to the comp[redacted]ion had been publicly available on the Crop Data Management System website. The [redacted] was previously unable to independently confirm the validity of that database information.

[redacted]

Many of the products and supplemental chemicals [redacted] lizers, mineral salts, metals and [redacted] said [redacted] a water resources educator with [redacted] who looked over the list on Friday.

Se[redacted] of the supplemental chemicals were raw ingredients used for mixing with regular fertilizers, [redacted] said.

"If you pull out a multivitamin you'll see a lot of these ingredients," she said. For example, Magnesium Sulfate appears on the list and consists of a mineral similar to calcium matched with sulfate to neutralize it.

Other produc[redacted] helper chemicals," whic[redacted] be mixed with nutrients or fertilizers to influence how they behave when applied to a plant, [redacted] said.

For example [redacted] sticker' and 'spreader' products which will help another product stick to the soil or leaves of a plant, she said.

[redacted] ingredient. The chemical is an active ingredient in [redacted] and would not be considered anything more than an irritant to humans and a deterrent to small rodents or rabbits, [redacted] said.

When interpreting the list of products, one state official cautioned that a chemical listed may not necessarily be what people should test for if they decide to have well water checked for contamination.

[redacted] said many of the products on the list were water soluble, which can mean they break down when mixed with rain water, runoff or th[redacted]

Previous[redacted] officials advised residents to test well water for nitrates, nitrites and total organic compound.

[redacted] declined to comment on the quantities of the fertilizers and chemicals being stored at the facility the day of the fire. While nitrates are not necessarily harmful to humans, the quantity is what people should be looking for, [redacted] said.

"There's a phrase 'the dose makes the poison,'" she said. "How much of it is used. That's sort of the key detail."

The EPA mandates that levels of nitrogen found in municipal or private water companies should be under 10 milligrams per liter, [redacted] said, which people can use as a point of reference when having their water tested. However, that number is geared toward safe levels in drinking water for pregnant women and infants because nitrates can interfere with oxygen levels in the blood, she said.

"People should not freak out if it's a nonzero," [redacted] said of the presence of nitrates in well water. "Some people may have high numbers and it has nothing to do with this incident. I've seen some areas go up to 20 milligrams per liter."

[redacted] did caution however that residents should not judge the safety of water for drinking based on color.

"I can have dangerous and not dangerous levels of nitrates in the water and they'll both be clear," she said.

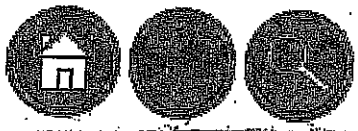
[redacted] also advised that residents should not be concerned with the presence of total organic carbon in well water because it is also found in common household beverages like coffee or tea.

"Drinking water plants will keep an eye on that because of how it will react with their chlorine," she said of the total organic carbon. "I'd rather see people investigate nitrate testing several times instead."

Since the fire, the Department of Environmental Protection has worked to remove water and soil contaminated with nitrates from the site of the fertilizer plant. However, runoff caused by heavy rains managed to leak several times into [redacted] according to [redacted] Days after the fire, the contamination led to the deaths of more than 10,000 fish, said [redacted], a representative for the [redacted]

"The preventative measures from last week are still in place," [redacted] said.

[redacted]



Search

[redacted] (Page 1)

Page 1 of 3 pages

Product Name	REG Number	Data / Labels / (M)SDS	ProductType	Active
Calexin Calcium Complex	EXEMPT		Nutrient - Liquid	
Cell Force 3-0-0	EXEMPT		Fertilizer - Liquid	
Cell Force Max 6-0-0	EXEMPT		Fertilizer - Liquid	
Exit	EXEMPT		Activator - Liquid	
Foam Fighter	EXEMPT		Defoaming Antifoaming Agent - Liquid	
Full Measure CAL	EXEMPT		Nutrient - Liquid	
Hot Sauce Animal Repellent	72-574		Animal Control Product - Soluble Concentrate	
[redacted]	EXEMPT		-	
[redacted]	EXEMPT		-	
[redacted]	EXEMPT		Activator - Liquid	

Page 1 of 3 pages

Displaying 10 records per page

[redacted]

[redacted]

[redacted]

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: Calexin®
Chemical Name: Neutralized Calcium Carbonate
Common Name, Synonym: Calcium complex
Material Uses: Micronutrient Fertilizer
Manufacturer/Manufactured For [redacted]

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS Number	%
This product has been tested as a whole to determine its hazards – See Section 11		

PA Right to Know: This product contains proprietary ingredients
This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the *corresponding CAS numbers and typical percent by weight are also provided).*
None

Section 3 – Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible.
Target Organs: Eyes, skin and stomach.
Potential Health Effects
Inhalation: My cause slight irritation if mist occurs.
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.
Acute Effects: Irritation
Chronic Effects: Non known
Signs and Symptoms of exposure: Eye contact may produce irritation and/redness.
Medical Condition Aggravated by Long-Term Exposure: None known
Physical Hazards: Refer to MSDS section 7 for handling and storage
Signal Word: Not applicable/non-hazardous

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD):	Not Applicable
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	Calexin® is non-flammable. If involved in fire, use water.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	Oxides of nitrogen may be generated.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill
Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

Section 6 – Accidental Release Measures *continued*

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: *General ventilation is usually adequate.*

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

Other Protective Equipment: Safety shower, eye wash fountain, and washing facilities should be readily available.

Section 9 – Physical and Chemical Properties

Appearance:	Clear to yellow and hazy liquid
Odor:	Moderate
pH (aqueous approx. 5% in DW):	2.400 to 4.000
Boiling point/Boiling range:	≥ 212°F (100°C)
Freeze Point:	< 32°F (0°C)
Flash Point:	No Determined
Vapor Pressure (mmHg):	<1
Vapor Density (Air=1):	>1
Solubility in Water:	Soluble
Specific Gravity (H_2O=1 @ 4°C):	1.06 – 1.08 g/mL @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Strong Oxidizers
Hazardous Decomposition or Byproducts:	Carbon oxides (CO, CO_2, C_2O_4, etc.)
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: May cause irritation
Acute Dermal Effects: Data not available
Acute Oral Effects: Data not available
Acute Inhalation Effects: Data not available

Chronic Effects: Not known
Carcinogenicity: None found for this product
Mutagenicity: None found for this product
Teratogenicity: None found for this product

Section 12 – Ecological Information

Ecotoxicity: Data not available
Aquatic Toxicity: Data not available
Environmental Fate: Data not available

[redacted]

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

[redacted]

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: 12/10/2012
Prepared By: [redacted]
Revision Date:
Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET ("MSDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED *HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT* AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND [redacted]

[redacted]

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: CELL FORCE™
Chemical Name: Inorganic Calcium Salt
Common Name, Synonym: None known
Material Uses: Liquid Fertilizer
Manufacturer/Manufactured [redacted]

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS Number	%
The proprietary ingredients in CELL FORCE™ are non-hazardous		

Section 3 – Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible.
Target Organs: Eyes, skin and stomach.
Potential Health Effects
Inhalation: My cause slight irritation if mist occurs.
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.
Acute Effects: Irritation
Chronic Effects: Non known
Signs and Symptoms of exposure: Eye contact may produce irritation and/redness.
Medical Condition Aggravated by Long-Term Exposure: None known
Physical Hazards: Refer to MSDS section 7 for handling and storage
Signal Word: Not applicable/non-hazardous

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD):	Not Applicable
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	CELL FORCE™ is non-flammable. If involved in fire, use water.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	None currently known.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill
CELL FORCE™ may promote eutrophication in water ways. Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

[redacted]

Section 6 – Accidental Release Measures *continued*

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: *General ventilation is usually adequate.*

Respiratory Protection:	If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.
Eye Protection:	Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.
Skin Protection:	Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.
Work Hygienic Practices:	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.
Other Protective Equipment:	Safety shower, eye wash fountain, and washing facilities should be readily available.

[redacted]

Section 9 – Physical and Chemical Properties

Appearance:	Light brown to brown clear liquid
Odor:	Mild
pH (aqueous approx. 5% in DW):	4.000 to 5.000
Boiling point/Boiling range:	≥ 212°F (100°C)
Freeze Point:	< 32°F (0°C)
Flash Point:	No Determined
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Solubility in Water:	Soluble
Specific Gravity (H_2O=1 @ 4°C):	1.11 – 1.12 g/mL @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Strong Oxidizing Agents
Hazardous Decomposition or Byproducts:	Oxides of phosphorus
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: Data not available
Acute Dermal Effects: Data not available
Acute Oral Effects: Data not available
Acute Inhalation Effects: Data not available
Skin Sensitization: Data not available
Acute Dermal Irritation: Data not available
Mutagenicity: Data not available
Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: Data not available
Aquatic Toxicity: Data not available
Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

WATER TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

AIR TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

[redacted]

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: [redacted]
Prepared by:
Revision Date:
Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS MATERIAL SAFETY DATA SHEET ("MSDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS MSDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND [redacted]

[redacted]

Material Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: CELL FORCE MAX™
Chemical Name: Inorganic Calcium Salt
Common Name, Synonym: None known
Material Uses: Liquid Fertilizer
Manufacturer/Manufactured For: [redacted]

Section 2 – Composition/Information on Ingredients

Ingredient Name	CAS Number	%
The proprietary Ingredients in CELL FORCE MAX™ are non-hazardous		

Section 3 – Hazards Identification

☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

Primary Entry Routes: Eye and skin contact is the most likely exposure. Ingestion is possible.
Target Organs: Eyes, skin and stomach.
Potential Health Effects
Inhalation: My cause slight irritation if mist occurs.
Eye: May cause eye irritation.
Skin: May cause skin irritation.
Ingestion: Large doses may cause nausea, vomiting, and stomach pain or cramps.
Acute Effects: Irritation
Chronic Effects: Non known
Signs and Symptoms of exposure: Eye contact may produce irritation and/redness.
Medical Condition Aggravated by Long-Term Exposure: None known
Physical Hazards: Refer to MSDS section 7 for handling and storage
Signal Word: Not applicable/non-hazardous

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire Fighting Measures

Flash Point (METHOD):	Not Applicable
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	CELL FORCE MAX™ is non-flammable. If involved in fire, use water.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	Oxides of nitrogen may be generated.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill
CELL FORCE MAX™ may promote eutrophication in water ways. Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

[redacted]

Section 6 – Accidental Release Measures *continued*

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: General ventilation is usually adequate.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

Other Protective Equipment: Safety shower, eye wash fountain, and washing facilities should be readily available.

[redacted]

Section 9 – Physical and Chemical Properties

Appearance:	Light brown to brown clear liquid
Odor:	Mild
pH (aqueous approx. 5% in DW):	2.000 to 3.000
Boiling point/Boiling range:	≥ 212°F (100°C)
Freeze Point:	< 32°F (0°C)
Flash Point:	No Determined
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Solubility in Water:	Soluble
Specific Gravity (H_2O=1 @ 4°C):	1.41 – 1.42 g/mL @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Reducing agents
Hazardous Decomposition or Byproducts:	Nitrogen oxides (NO, NO_2, N_2O_4, etc.)
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: Data not available
Acute Dermal Effects: Data not available
Acute Oral Effects: Data not available
Acute Inhalation Effects: Data not available
Skin Sensitization: Data not available
Acute Dermal Irritation: Data not available
Mutagenicity: Data not available
Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: Data not available
Aquatic Toxicity: Data not available
Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

WATER TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

AIR TRANSPORTATION
- **PROPER SHIPPING NAME:**
- **PACKING GROUP:**
- **HAZARD CLASS:**
- **LABEL/PLACARD REQUIRED:**
- **UN/NA No.:**

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

[redacted]

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: 07/06/2011
Prepared [redacted]
Revision Date:
Revision Notes:

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[redacted]

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: BIOX®
Chemical Name: Not applicable
Common Name, Synonym: Not applicable
Material Uses: Ammonia Reduction Formula (Liquid)
Manufacturer/Manufactured For: [redacted]

Section 2 – Hazard Identification

2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)
Not a hazardous substance or mixture according to 29 CFR 1910.1200 (OSHA HCS)

2.2 Label elements

GHS Labeling Elements
Pictogram: Not Applicable
Signal Word: Not applicable

Hazard Statements: Not applicable
Precautionary Statements: Not Applicable

Section 3 – Composition/Information of Ingredients

Ingredient Name	CAS Number	%
The proprietary ingredients in BIOX® are non-hazardous		

The above chemicals are not present in sufficient quantities to classify the mixture as hazardous according to GHS bridging principles.

PA Right to Know: This product contains proprietary ingredients
This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).
None

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire-Fighting Measures

Flash Point (METHOD):	Not Applicable
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	Non-flammable. If involved in fire, use water.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	None currently known.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill
Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If acidity (low pH) is a problem, neutralize with hydrated lime, soda ash, or sodium bicarbonate. If alkalinity (high pH) is a problem neutralize with dilute acetic acid or dilute hydrochloric (muriatic) acid. If required, notify state and local authorities.

Section 6 – Accidental Release Measures *continued*

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: *General ventilation is usually adequate.*

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

Other Protective Equipment: Safety shower, eye wash fountain, and washing facilities should be readily available.

Section 9 – Physical and Chemical Properties

Appearance:	Light brown liquid
Odor:	Moderate odor
pH (aqueous approx. 5% in DW):	6.8 to 7.8
Boiling point/Boiling range:	≥ 212°F (100°C)
Freeze Point:	< 32°F (0°C)
Flash Point:	No Determined
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Solubility in Water:	Soluble
Specific Gravity (H_2O=1 @ 4°C):	1.12 – 1.16 g/mL @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Strong Oxidizing Agents
Hazardous Decomposition or Byproducts:	Oxides of phosphorus
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: Data not available
Acute Dermal Effects: Data not available
Acute Oral Effects: Data not available
Acute Inhalation Effects: Data not available
Skin Sensitization: Data not available
Acute Dermal Irritation: Data not available
Mutagenicity: Data not available
Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: Data not available
Aquatic Toxicity: Data not available
Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

[redacted]

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: 04/10/2015
Prepared By [redacted]
Revision D [redacted]
Revision Notes: GHS Compliance
NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS SDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER [redacted]

[redacted]

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: C.A.L.F.A®
Chemical Name: Mixture
Common Name, Synonym: Carboxylic Acids
Material Uses: Fertilizer Adjuvant
Manufacturer/Manufactured For: [redacted]
Phone: [redacted]

Section 2 – Composition/Information on Ingredients

2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)
Skin Irritation (Category 2)
Eye Irritation (Category 2B)

2.2 Label elements

GHS Labeling Elements

Pictogram: 
Signal Word: Warning

Hazard Statements: Causes skin irritation. Causes eye irritation.

Precautionary Statements: Wash skin thoroughly after handling. Wear protective gloves. If on skin: Wash with plenty of water. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs or eye irritation persists: Get medical attention. Wash contaminated clothing before reuse.

Section 3 – Hazards Identification

Ingredient Name	CAS Number	%
Mixture of Carboxylic Acids	None Established	>10%

The above mixture has been determined to be hazardous according to GHS bridging principles.

PA Right to Know: This product contains proprietary ingredients.
This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).
None

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire Fighting Measures

Flash Point (METHOD):	Not Available
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	Use alcohol foam, carbon dioxide, water fog, dry chemical, or halon when fighting fires involving this material.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	Oxides of carbon may be generated.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

Contain spill
Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If required, notify state and local authorities.

Section 6 – Accidental Release Measures *continued*

Disposal Method
Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:
Mechanical: Mechanical ventilation is preferred.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

Work Hygienic Practices: Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.

Other Protective Equipment:	Safety shower, eye wash fountain, and washing facilities should be readily available.

Section 9 – Physical and Chemical Properties

Appearance:	Colorless to clear liquid
Odor:	Moderate Oder
pH (aqueous approx. 5% in DW):	2.00 – 3.00 @ 68°F (20°C)
Boiling point/Boiling range:	> 212°F
Freeze Point:	Not Determined
Flash Point:	Not Determined
Vapor Pressure (mmHg):	Not Determined
Vapor Density (Air=1):	Not Determined
Solubility in Water:	Soluble
Specific Gravity (H_2O=1 @ 4°C):	1.22 – 1.25 g/mL @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Strong oxidizers
Hazardous Decomposition or Byproducts:	Carbon oxides (CO, CO_2, C_2O_4, etc.)
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: Data not available
Skin Sensitization: Data not available
Acute Dermal Effects: Data not available
Acute Dermal Irritation: Data not available
Acute Oral Effects: Data not available
Mutagenicity: Data not available
Acute Inhalation Effects: Data not available
Teratogenicity: Data not available

Section 12 – Ecological Information

Ecotoxicity: This product is a spray adjuvant. Large spills could possibly damage vegetation. Contamination of waterways could possibly cause fish kills. Prevent spread and runoff into drains, storm sewers and ditches that lead to waterways.

Section 12 – Ecological Information *continued*

Aquatic Toxicity: Data not available
Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal:	If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Disposal Regulatory Requirements:	Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations
Container Cleaning and Disposal:	*Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations*

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

[redacted]

OTHER AGENCIES:

SECTION 14 NOTES: This product is not considered a hazard

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: 5/05/2015
Prepared By [redacted]
Revision D
Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS SDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER [redacted]

[redacted]

Safety Data Sheet

Section 1 – Chemical Product and Company Identification

Product Name: [redacted]
Chemical Name: Adjuvant
Common Name, Synonym: Proprietary
Material Uses: Agricultural Adjuvant
Manufacturer/Manufactured For: [redacted]

Section 2 – Hazard Identification

2.1 Classification of the substance or mixture

GHS Classification (29 CFR 1910.1200)
Skin Sensitization (Category 1b)
Skin Irritation (Category 2)

2.2 Label elements

GHS Labeling Elements

Pictogram:
Signal Word: *Warning*

Hazard Statements: Causes skin irritation. May cause an allergic skin reaction.

Precautionary Statements: Avoid breathing dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Wear protective gloves. Contaminated clothing must not be allowed out of the workplace. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical attention. Wash contaminated clothing before reuse. Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 3 – Composition/Information of Ingredients

Ingredient Name	CAS Number	%
This product has been tested as a whole to determine its hazard – see section 11		100

[redacted]

Product Nam[redacted]

PA Right to Know: This product contains proprietary ingredients.
This product contains the following chemicals subject to the reporting requirements of Section 13Title III of the Superfund Amendments and Reauthorization act of 1986 and 40 CFR part 372 (the corresponding CAS numbers and typical percent by weight are also provided).
None

Section 4 – First Aid Measures

EYE CONTACT
Immediately flush eyes with plenty of water for at least 15 minutes, while holding eyelids apart to ensure flushing of entire surface. Call a physician.

SKIN CONTACT
Immediately flush skin with plenty of water for at least 15 minutes, while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Call a physician.

INHALATION
Remove to fresh air. If not breathing give artificial respiration, preferably mouth to mouth. If breathing is difficult give oxygen. Call a physician.

INGESTION
If swallowed, DO NOT induce vomiting. Rinse mouth with water. Dilute stomach contents by drinking water. If vomiting occurs spontaneously, keep head bellow hips to prevent breathing vomit into lungs. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Call a physician immediately!

Section 5 – Fire Fighting Measures

Flash Point (METHOD):	330°C (TCC)
Auto-Ignition:	Not Available
Flammable Limits:	Not Available
Extinguishing Media:	Use alcohol foam, carbon dioxide, water fog, dry chemical, or halon when fighting fires involving this material.
Special Fire Fighting Procedures:	None currently known.
Unusual Fire and Explosion Hazards:	Oxides of carbon may be generated.

Section 6 – Accidental Release Measures

Personal precautions
Evacuate non-essential personnel, eliminate ignition sources, and wear protective equipment (See Section VIII). Shut off source of leak only if safe to do so. Wear respiratory equipment if exposure limits are exceeded.

[redacted]

Product Name: [redacted]

Contain spill

Recover free product. To clean up residue, flush sparingly with water or use an absorbent. Avoid runoff to ground water, surface waters, and sewers. It may be necessary to remove contaminated soil. If product is flammable or combustible, use non-sparking tools. If required, notify state and local authorities.

Section 6 – Accidental Release Measures *continued*

Disposal Method

Solids must be disposed of in a permitted waste management facility. Recovered liquids may be reprocessed or incinerated. Incineration must be handled in a permitted facility. Dispose of material in accordance with all Federal, State and Local regulations. Local regulations may be more stringent than Federal or State.

Section 7 – Handling and Storage

Handling: Wear protective equipment when handling. Wash thoroughly after handling. Do not get in eyes. Do not breathe vapor, mist, or dust. Avoid prolonged or repeated contact with skin. Do not swallow.

Storage: For industrial use only. Keep container closed when not in use. Store in a cool dry place between 41°F and 120°F. Keep out of reach of children.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls:

Mechanical: Mechanical ventilation is preferred.

Respiratory Protection: If exposure limits are exceeded, or if exposure may occur, use a NIOSHA/MSHA respirator approved for your conditions of exposure. Refer to the most recent NIOSHA publications concerning chemical hazards, or consult your safety equipment supplier. Respiratory protection programs must be in compliance with OSHA requirements in 29 CFR 1910.134. For emergencies, a NIOSHA/MSHA approved positive pressure-breathing apparatus should be readily available.

Eye Protection: Chemical goggles or face shield. Always wear eye protection when working with chemicals. Never wear contact lenses when working with chemicals.

Skin Protection: Rubber gloves. Clean protective body covering, rubber apron, and rubber boots.

[redacted]

Product Name: [redacted]

Work Hygienic Practices:	Avoid contact with skin, eyes, and clothing. After handling this product, wash hands before eating, drinking or smoking. If contact occurs, remove contaminated clothing. If needed, take First Aid action shown in Section IV. Launder contaminated clothing before use.
Other Protective Equipment:	Safety shower, eye wash fountain, and washing facilities should be readily available.

Section 9 – Physical and Chemical Properties

Appearance:	Amber to brown liquid
Odor:	Moderate Oder
pH (aqueous approx. 5% in DW):	6.0 – 7.0 @ 20°C
Boiling point/Boiling range:	224°C
Freeze Point:	< 0°C
Flash Point:	Not Determined
Vapor Pressure (mmHg):	22.8
Vapor Density (Air=1):	Not Determined
Solubility in Water:	emulsifies
Density:	7.60 – 7.70 lbs/gal @ 68°F (20°C)
Specific Gravity (H_2O=1 @ 4°C):	0.9 – 0.93 @ 68°F (20°C)
Evaporation Rate (NA=1):	Not Determined
Percent Volatile by Volume:	Not Determined

Section 10 – Stability and Reactivity

Chemical Stability:	Stable
Materials to Avoid:	Strong oxidizers
Conditions to Avoid:	High Temperatures, Freezing and sources of ignition
Hazardous Decomposition or Byproducts:	Carbon oxides (CO, CO_2, C_2O_4, etc.)
Hazardous Polymerization:	Will not occur

Section 11 – Toxicological Information

Toxicity Data:

Acute Eye Irritation: May cause irritation
Skin Sensitization: Moderate potential to produce sensitization
Acute Dermal Effects: LD_{50} >5000 mg/kg (rat)
Acute Dermal Irritation: 3.4/8 (rabbit) moderately irritating
Acute Oral Effects: LD_{50} >5000 mg/kg (rat)
Mutagenicity: Data not available
Acute Inhalation Effects: LC_{50} > 5.88 mg/L
Teratogenicity: Data not available

[redacted]

Product Name: [redacted]

Section 12 – Ecological Information

Ecotoxicity: This product is a spray adjuvant and large spills may cause damage to vegetation. Contamination of waterways may cause fish kills. Prevent spread and runoff into drains, storm sewers and ditches that lead to waterways.

Aquatic Toxicity: Daphnia Magna: LC_{50} 8.26 mg/L
Bluegill Sunfish: LC_{50} 11.08 mg/L
Rainbow Trout: LC_{50} 8.98 mg/L

Environmental Fate: Data not available

Section 13 – Disposal Considerations

Disposal: If uncontaminated, recover and reuse as product. If contaminated with other materials, the nature and extent of contamination may require use of specialized disposal methods. Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Disposal Regulatory Requirements: Consult local, county, state, or federal regulatory agencies for *acceptable disposal procedures and disposal locations*

Container Cleaning and Disposal: Consult local, county, state, or federal regulatory agencies for acceptable disposal procedures and disposal locations

Section 14 – Transport Information

U.S. DEPARTMENT OF TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

WATER TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:
LABEL/PLACARD REQUIRED:
UN/NA No.:

AIR TRANSPORTATION
PROPER SHIPPING NAME:
PACKING GROUP:
HAZARD CLASS:

[redacted]

Product Name: [redacted]

LABEL/PLACARD REQUIRED:
UN/NA No.:

SECTION 14 NOTES: This product is not considered a hazard

Section 15 – Regulatory Information

EPA Regulations:

Reportable Quantity –CERCLA: Not applicable
SARA Title III (EPCRA): Not applicable
RCRA Waste Code: Not applicable

State Regulations:

CA Proposition 65: Not applicable

EPA National Response Center (800) 424-8802

Section 16 – Other Information

Preparation Date: 02/17/15
Prepared B [redacted]
Revision D
Revision Notes:

NOTICE TO READER: THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET ("SDS") RELATES ONLY TO THE SPECIFIC PRODUCT(S) DESIGNATED HEREIN (THE "PRODUCT"). THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN ARE BASED UPON DATA BELIEVED TO BE CURRENT AND CORRECT AS OF THE DATE OF THIS SDS, AND OBTAINED FROM SOURCES THAT ARE BELIEVED TO BE RELIABLE. HOWEVER, THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATIONS OR LICENSE OF ANY KIND, EXPRESS OR IMPLIED, WITH RESPECT TO ACCURACY, CORRECTNESS, OR COMPLETENESS, AND NEITHER [redacted]

[redacted]

IDENTITY NU-LURE

SECTION I

Manufacturer's Name: [redacted]

Address: [redacted]

Emergency Telephone Number: [redacted]

Telephone Number for Information: [redacted]

Date Prepared: 08/25/93

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	OSHA PEL	ACGIH TLV	Other Limits Recommended	%
NONE				

This Product contains no Hazardous Ingredients as defined by the OSHA Hazard Communication Act and State Right-to-Know Laws. This MSDS is provided for Handling Guidelines.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	NA
Vapor Pressure (mm Hg):	NA
Vapor Density (AIR = 1):	NA
Specific Gravity (H_2O = 1):	1.22 - 1.28
Melting Point:	NA
Evaporation Rate (Butyl Acetate = 1):	NA
Solubility in Water:	95% Min.
Appearance and Odor:	Brown Liquid, Sweet Odor

NA - Not Applicable or Not Available

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used):	NA
Flammable Limits:	NA
LEL:	NA
UEL:	NA
Extinguishing Media:	Water Spray
Special Fire Fighting Procedures:	None
Unusual Fire and Explosion Hazards:	None

SECTION V - REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	None Known
Incompatibility (Materials to Avoid):	None Known
Hazardous Decomposition or Byproducts:	None Known
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	None Known

SECTION VI - HEALTH HAZARD DATA

Route(s) of Entry:

Inhalation:	NA
Skin:	NA
Ingestion:	NA

Health Hazards (Acute and Chronic):
This Product is Generally Considered Safe to Humans, Animals, Birds, and Fish.

Carcinogenicity:

NTP:	No
IARC Monographs:	No
OSHA Regulated:	No

Signs and Symptoms of Exposure: NA

Medical Conditions Generally Aggravated by Exposure: NA

Emergency and First Aid Procedures:
Flush eyes or Skin with Water. Treat the same as any mildly acetic, slightly salty food product, such as Tomato Paste.

NA - Not Applicable or Not Available

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to Be Taken in Case Material is Released or Spilled:
Sweep up with Absorbant. Wash Area with Soap and Water. Can be Treated as Non-Hazardous Waste.

Waste Disposal Method:
Dispose of Containers in Accordance with Local/State/Federal Regulations.

Precautions to Be Taken in Handling and Storing:
No Special Precautions Required. Try to Limit Exposure.

Other Precautions: None

SECTION VIII - CONTROL MEASURES

Respiratory Protection: None Required. Avoid Vapor Inhalation

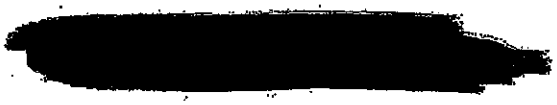
Ventilation:

Local Exhaust:	NA
Mechanical (General):	If Needed
Special:	NA
Other:	NA

Protective Gloves:	Not Required, Avoid Contact
Eye Protection:	Chemical Splash Goggles Should Always Be Worn.
Other Protective Clothing or Equipment:	Clean, Body-Covering Clothing

Work/Hygienic Practices:
Follow Good Industrial Hygiene Practices.

The Information Herein is Given in Good Faith,
but no Warranty, Expressed, or Implied, is Made.



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

Generator Waste Profile

Profile # 00697

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

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

Contact: [redacted] Title: _____ Phone: [redacted]

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

WOODS NICKEL (B-8)

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

ELECTROLYTIC PLATING

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	☒ 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 GREEN		☒ Single Phase	Exact / Other 1.20	08/12/15

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

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

VOC CONCENTRATION - ~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	
Sulfuric Acid	25	0	%				%
Water	99	75	%				%
Solids	25	0	%				%
			%				%
			%				%

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

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

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) In pounds _____
3. DOT Shipping Name RQ, UN 3264, Waste Corrosive Liquid, acidic, inorganic, N.O.S. (sulfuric acid) Hazard Class 8 (UN/NA 3264)

PG I ERG _____ Hazardous Constituents for "n.o.s." sulfuric acid

4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: Varies or ☐ One Time
6. *Special Handling Requirements including PPE:* _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name [redacted] Title: [redacted]

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. GRAB (SAMPLING METHOD) 2. _____ (COLLECTION POINT)

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

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/6/15
Receiving ID#	[redacted]
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	[redacted]
Sampled by	[redacted]

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.20	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	71 °F		
Conductivity	293.9 mS		
% Solids	21.7		
Turbidity	(Yes) No		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

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

Generator Waste Profile
Profile # 00697

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

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

Contact: [redacted] Title: _____ Phone: [redacted]

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
WOODS NICKEL (B-8)

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

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:	acceptable
☐ White/Clear	☒ 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 ☒ 1.0 – 1.2	
☐ Black/Brown	☐ 1-3 % ☐ > 5%	☐ Bi-Layered	☐ 0.8 –1.0 ☐ 1.3 – 1.4	
☒ Other GREEN		☒ Single Phase	Exact / Other 1.20	08/12/15

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

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

VOC CONCENTRATION - ~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
Sulfuric Acid	25	0	%			
water	99	75	%			
solids	25	0	%			
			%			
			%			

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

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name RQ, UN 3264, Waste Corrosive Liquid, acidic, inorganic, n.o.s. (sulfuric Acid) Hazard Class 8 (UN/NA 3264)

PG I ERG _____ Hazardous Constituents for "n.o.s." sulfuric acid

4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: Varies or ☐ One Time
6. *Special Handling Requirements including PPE:* _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name [redacted] Title: [redacted]

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

PLEASE collect a representative 1-quart sample 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-Technologie representative.

1. grab (SAMPLING METHOD) 2. _____ (COLLECTION POINT)

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

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/6/15
Receiving ID#	[redacted]
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	[redacted]
Sampled by	[redacted]

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.20	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	71 °F		
Conductivity	293.9 mS		
% Solids	21.7		
Turbidity	(Yes) No		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

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

Generator Waste Profile

Profile # 00693

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

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

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

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

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

ELECTROLESS NICKEL

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

NON ELECTROLYTE PLATING

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	☒ 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 Green		☒ Single Phase	Exact / Other 1.17	08/12/15

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

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

VOC Concentration - 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	
Sulfuric Acid	30	0	%				%
Water	99	70	%				%
Solids	25	0	%				%
			%				%
			%				%

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

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

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name RQ, UN3264, Waste Corrosive Liquid, Acidic, Inorganic, N.O.S. (Sulfuric Acid) Hazard Class 8 (UN)NA 3264
PG I ERG _____ Hazardous Constituents for "n.o.s." Sulfuric Acid
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 warrant in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: [redacted] Title: [redacted]

Generator's Signature [redacted] Date [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. grab (SAMPLING METHOD) 2. _____ (COLLECTION POINT)

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

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/6/15
Receiving ID#	[redacted]
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	[redacted]
Sampled by	

LAB INFORMATION			
All Waste Shipments		Oilfield Brines Only	
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.)	5.2	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<20.0	Carbonate	
Specific Gravity	1.17	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	70°F		
Conductivity	103.6mS		
% Solids	22.2		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	<0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

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

Generator Waste Profile

Profile # 00699

GENERATOR INFORMATION

Name: [redacted] USEPA ID: [redacted]

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

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

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

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

BLACK OXIDE WASTE

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

NON-ELECTROLYTIC PROCESS

USEPA / STATE WASTE IDENTIFICATION

1. This waste is considered to be: ☐ Non Hazardous Liquid Industrial Waste ☒ Hazardous Waste
2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D006 D007 D008 _____ _____ _____ _____ _____ _____

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	for
☐ Other _____		☑ Single Phase	Exact / Other 1.64	081215

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	
SULFURIC ACID	30	0	%				%
WATER	99	40	%				%
SOLIDS	60	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	X	ppm
Chromium (Cr)	D007	☐	< 5 ppm	X	ppm
Lead (Pb)	D008	☐	< 5 ppm	X	ppm
Mercury (Hg)	D009	☒	< 0.2 ppm	____	ppm
Selenium (Se)	D010	☒	< 1 ppm	____	ppm
Silver (Ag)	D011	☒	< 5 ppm	____	ppm

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name RQ, NA3082, Hazardous Waste Liquid, N.O.S. Hazard Class 9 UN/NA 3082
PG III ERG _____ Hazardous Constituents for "n.o.s." Sulfuric Acid
4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
5. Number of Units to Ship Now: _____ 6. Anticipated Volume / Units per Year: Varies or ☐ One Time
6. Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed N[redacted] _____

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. grab 2. _____
SAMPLING METHOD COLLECTION POINT

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

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/6/15
Receiving ID#	[redacted]
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	[redacted]
Sampled by	

LAB INFORMATION All Waste Streams		Other Brines Only	
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.)	9.6	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.64	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	75°F		
Conductivity	97.7 mS		
% Solids	55.8		
Turbidity	Yes (No)		
Color (visual)	Colorless		
TSS (%)	0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

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

Generator Waste Profile

Profile # 00695

GENERATOR INFORMATION

Name: [redacted] USEPA ID: [redacted]

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

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

Contact: [redacted] Title: _____ Phone: [redacted]

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

SULFAMATE NICKEL

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

ELECTROLYTIC PROCESS

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 D006 D007 D008 _____ _____ _____ _____ _____

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 green		☒ Single Phase	Exact / Other 1.21	08/15

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

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

VOC CONCENTRATION - 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
Sulfuric Acid	30	15 %			%
Water	80	0 %			%
Solids	40	20 %			%
		%			%
		%			%

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	X ppm
Chromium (Cr)	D007	☐ < 5 ppm	X ppm
Lead (Pb)	D008	☐ < 5 ppm	X 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 ____ (sulfuric acid)
3. DOT Shipping Name RQ, UN3264, Waste Corrosive Liquid, Acidic, Inorganic, N.O.S. Hazard Class ____ UN/NA ____
PG ____ ERG ____ Hazardous Constituents for "n.o.s." sulfuric acid
4. Method of Shipment: ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car ☒ Drums ☒ Totes
5. Number of Units to Ship Now: ____ 6. Anticipated Volume / Units per Year: Varies or ☐ One Time
6. *Special Handling Requirements including PPE:* ____

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name [redacted] Title [redacted]

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. grab (SAMPLING METHOD) 2. ____ (COLLECTION POINT)

3. ____ (SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER)

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/6/15
Receiving ID#	[redacted]
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	[redacted]
Sampled by	[redacted]

LAB INFORMATION All Waste Shipments		Oilfield Brines Only	
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.)	5.0	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.21	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	70°F		
Conductivity	67.3 mS		
% Solids	31.2		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
28470 Cabin Dr, Romulus, MI 48174. Telephone 734.946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # 00696

GENERATOR INFORMATION

Name: [redacted] USEPA ID #: [redacted]

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

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

Contact: [redacted] Phone: [redacted]

BILLING INFORMATION ☐ SAME AS ABOVE

Company Name: [redacted]

Address: [redacted]

City: [redacted] State: [redacted]

Attention: [redacted] Phone: [redacted]

WASTE INFORMATION

Name of Waste/Common Chemical Name: off spec lab chemicals

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

disposal of old out dated material

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color:	Suspended Solids:	Layers:	Specific Gravity:	accepted
☐ White/Clear	X 0-1 % ☐ 3-5 %	☐ Multi-Layered	☐ <0.8 X 1.0 – 1.2	
☐ Black/Brown	☐ 1-3 % ☐ >5%	☐ Bi-Layered	☐ 0.8 – 1.0 ☐ 1.3 – 1.4	081115
☐ Other Varies		X Single Phase	Exact / Other: _____	

pH: ☐ NA X ≤ 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 X None ☐ Closed Cup ☐ Open Cup

VOC CONCENTRATION - 45 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
Lab pack see attached list	100 %				%
	%				%
	%				%
	%				%
	%				%

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? X Yes ☐ No
2. Reportable Quantity (RQ) in pounds ______
3. DOT Shipping Name Waste corrosive liquid, N.O.S. ______ Hazard Class 8 ______ UN/NA UN1760

PG II ____ ERG 154 ____ Hazardous Constituents for "n.o.s." HCL & hydrofluoric acid

4. Method of Shipment ☐ Bulk Tanker ☐ Vac truck ☐ Rail Car X Pail ☐ Totes
5. Number of Units to Ship Now: 7 5 gallon pail ______ 6. Anticipated Volume / Units per Year ______ or X 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 the representation and warranty in the handling and processing of the waste material described herein. If this box is checked ☐, I request Environmental Geo-Technologies to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization [illegible]

Printed Name [redacted] Title [redacted]

Generator's Signature [redacted] Date [redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

Please collect a representative 1 quart sample of the waste described in the above referenced 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 I. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. ______ SAMPLING METHOD
2. ______ COLLECTION POINT
3. ______ SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
4. Sample No. ______ Preservation: Yes ☐ No ☐

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

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

LAB PACK INVENTORY

Gen. Name [redacted]
Address
City, State, Zip
Shipping Name

EPAID # [redacted]
Drum #
Dr. Size & Type
UN or NA #

	Chemical Name	QUANTITY (Volume)	State (S/L)	Cont. Type (Glass/QT)	EPA CODE
1.	HCl	1-500mL	L	G	D002
2.	Sodium Nitrite	1-500g	S	P	D003
3.	Hydrochloric Acid	2-500mL	L	G	D002
4.	Ethanol Export	500	S	P	
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

Signature [redacted]

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

Generator Waste Profile

Profile # 00698

GENERATOR INFORMATION

Name: [redacted] USEPA ID # [redacted]

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

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

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

BILLING INFORMATION ☒ SAME AS ABOVE

Company Name: _____

Address: _____

City: _____ State: _____ Zip Code: _____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Phos. based Cleaner (H_3PO_4)

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

Carbon Steel Cleaning bath

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	
☒ Other brownish		☒ Single Phase	Exact / Other _____	08/7/15

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

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

VOC Concentration - 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
Phosphoric Acid	20	10 %			%
Water	85	95 %			%
Soils	15	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	X ppm 8,1	
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 ☒ See attached

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name Waste Corrosive Liquid, Acidic, Inorganic, NOS, (phosphoric acid), (phosphoric Acid) Hazard Class 8 UN/NA 1805 PG III
PG III ERG _____ Hazardous Constituents for "n.o.s." phosphoric Acid
4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes
5. Number of Units to Ship Now: ≈ 6000 6. Anticipated Volume / Units per Year: _____ or ☐ One Time
6. Special Handling Requirements including PPE: N/A

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 regulatory requirements.

X Printed Name: [redacted] _____

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

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. GRAB SAMPLING METHOD 2. _____ COLLECTION POINT

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

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

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

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[redacted]					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/17/15
Receiving ID#	H3804
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION All Waste Shipments		Oil & Brines Only	
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.)	3.1	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.07	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	78°F		
Conductivity	18.2 mS		
% Solids	9.3		
Turbidity	(Yes) No		
Color (visual)	Brown		
TSS (%)	<0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

7

Century Chemical Corporation

7707 Lyndon,. Detroit, MI 48238

MATERIAL SAFETY DATA SHEET

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: C-CLEAN 1090LF
PRODUCT 10903

HMIS
Health: 2
Flammability: 0
Reactivity: 1

MANUFACTURER: [redacted]
TELEPHONE:
ADDRESS:

SECTION II - COMPOSITION, INFORMATION ON HAZARDOUS INGREDIENTS

Ingredients	*CAS*	*Percent*	*OSHA PEL*	*ACGIH TLV*	*SARA III*
Phosphoric Acid	7664-38-2	< 85 %	1 mg/m3	1 mg/m3	X

SECTION III - HAZARDS IDENTIFICATION

May be harmful if swallowed. May cause skin and eye irritation. Eye protection and rubber gloves are recommended when handling this product.

SECTION IV - FIRST AID MEASURES

In case of eye or skin contact flush with large amounts of water for 15 minutes. If irritation persists, see physician. In case of ingestion, do not induce vomiting; drink large quantities of water to dilute product. Get medical attention at once.

SECTION V - FIRE FIGHTING MEASURES

FLASHPOINT: No Flash LEL: N/E UEL: N/E
GENERAL HAZARD: Does not propose a significant fire hazard.
EXTINGUISHING MEDIA: Water, Foam, Carbon Dioxide

SECTION VI - ACCIDENTAL RELEASE MEASURES

Notify the appropriate authorities immediately. Avoid uncontrolled release of this material to environment. Contain spilled liquid with sand, earth or absorbent material. Transfer to secure chemical waste container.

SECTION VII - HANDLING AND STORAGE

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials and flame, heat or other source of ignition. Do not reuse empty containers without commercial cleaning.

SECTION VIII - EXPOSURE CONTROLS, PERSONAL PROTECTION

EYE PROTECTION:	Wear chemical resistant safety glasses, splash goggles or face shield.
SKIN PROTECTION:	Wear chemical resistant rubber gloves.
RESPIRATORY PROTECTION:	For most conditions, no respiratory protection should be needed.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid	SPECIFIC GRAVITY:	1.28 to 1.34
COLOR:	Blue Green	pH:	0.7 to 1.3
ODOR:	Non-objectionable	BOILING POINT:	212° F
SOLUBILITY:	100%	VAPOR PRESSURE:	24 mm Hg @ 75° F

SECTION X - STABILITY AND REACTIVITY

GENERAL:	This product is stable and hazardous polymerization will not occur.
INCOMPATIBILITY:	Strong oxidizing agents. Do not mix with other chemicals.
DECOMPOSITION:	None.

SECTION XI - TOXILOGICAL INFORMATION

No data available.

SECTION XII - ECOLOGICAL INFORMATION

No data available.

SECTION XIII - DISPOSAL CONSIDERATIONS

Dispose of according to federal, state and/or local requirements and your company policy. Safety precautions listed on this MSDS also apply to empty containers.

SECTION XIV - TRANSPORT INFORMATION

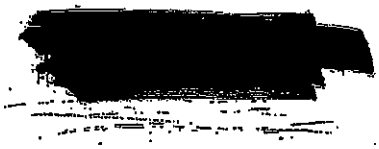
DOT Hazard Class: Corrosive liquids, N.O.S., (Contains PHOSPHORIC ACID), 8, UN1760, PGII

SECTION XV - REGULATORY INFORMATION

Component chemicals are subject to the reporting requirements of SECTION 313 of SARA TITLE III. Please see MSDS Section II for exposure levels. The listed percent should be used to determine reporting requirements.

SECTION XVI - OTHER INFORMATION

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. The stated MSDS is reliable to the best of the company's knowledge and believed accurate as of the date indicated. However, no representation, warranty or guarantee of any kind, expressed or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use.



Brighton Analytical L.L.C.™
Brighton Analytical, L.L.C.
2105 Pless Drive
Brighton, Michigan 48116
Phone: (810) 229-7575 FAX: (810) 229-8650
e-mail: bai-brighton@sbcglobal.net

To: [redacted]

Sample Date: 8/5/2015
Submit Date: 8/5/2015
Report Date: 8/7/2015

BA Report Number: [redacted]
BA Sample ID: [redacted]

Project Name: [redacted]
Project Number:
Sample ID: Phos Cleaner

Parameters		Results	Units	DL	Method Reference	Analyst	Analysis Date
TCLP Metal Analysis	ppm		ppb				
TCLP Arsenic	1.5	1500	ug/L	200	SW846 6020	LT	8/7/2015
TCLP Barium	1.4	1400	ug/L	100	SW846 6020	LT	8/7/2015
TCLP Cadmium	0.53	530	ug/L	40	SW846 6020	LT	8/7/2015
TCLP Chromium ✓	8.1	8100	ug/L	10	SW846 6020	LT	8/7/2015
TCLP Copper	2.4	2400	ug/L	100	SW846 6020	LT	8/7/2015
TCLP Lead		Not detected	ug/L	200	SW846 6020	LT	8/7/2015
TCLP Mercury		Not detected	ug/L	2	SW846 7470A	LS	8/6/2015
TCLP Selenium		Not detected	ug/L	300	SW846 6020	LT	8/7/2015
TCLP Silver		Not detected	ug/L	100	SW846 6020	LT	8/7/2015
TCLP Zinc		140000	ug/L	70	SW846 6020	LT	8/7/2015
TCLP Mercury (digestion)		Digested			7470	LS	8/6/2015
TCLP Metal (digestion)		Digested			3015	HD	8/6/2015
Inorganic Analysis							
pH		1.8	S.I.		SW846 9040B	HD	8/6/2015
Phosphorus (total)		32000000	ug/L	10	SM4500 PE	MB	8/6/2015

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: E Wood
Date: 8/7/15

BA Brighton Analytical, L.L.C.
2105 Pless Drive, Brighton, MI 48114
Phone: 810-229-7575 Fax: 810-229-8650

BA PROJECT #: 35510

PAGE 1 OF 1

COMPANY NAME: [redacted]
PROJECT NAME: [redacted]
PROJECT NUMBER:
P. O. NUMBER:

REQUESTED TURNAROUND (circle one): RUSH

If RUSH, approved by: ______

REPORT RESULTS TO: [redacted]
PHONE:
FAX:

Brighton ID #	Sample Description	Time	Date	VOA'S (PRES) Y N	HDPE UNRESERVED	HDPE HNO_3	HDPE H_2SO_4	HDPE NAOH	AMBER	GLASS H_2SO_4	GLASS, NO PRESERVATIVE	MEOH Preservation (F)ield or (L)ab Preserved	Sample Matrix	FOR DISSOLVED METALS (L) LAB TO FILTER (F) FIELD-FILTERED	TCLP Metals (ls)	TP Phos	PH				
1) C208202	Phos Cleaner	900	8/5/15				1				1				X	X	X				
2)																					
3)																					
4)																					
5)																					
6)																					
7)																					
8)																					
9)																					
10)																					
11)																					

RUSH

Sample received within holding time? yes ☒ no ☐
For TCLP ONLY – Federal Limits ☐ Other ☐
Samples intact: yes ☒ no ☐ (if no, see below)
Note samples if not intact:
Headspace/bubbles in VOA'S? yes ☐ no ☐ n/a ☒
Sample containers and COC match? yes ☒ no ☐
Comments:

Temperature of Samples °C: ON ICE

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
Ba Kg	(signature)	8-5-15	4:20				

Brighton Analytical L.L.C.

BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY CONTROL

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst: HD **Parameter:** pH

Analysis Date: 8/6/2015 **Method Reference:** SM4500H+B/9040/9045

SPIKE - ACCURACY					
Laboratory ID	**TRUE Value**	**Observed Value**	**DIFFERENCE**	**Acceptable Range**	**Method Blank Concentration**
BUFFER 2501704	6.00	5.98	0.02	0.05	

SPIKE - PRECISION					
Laboratory ID	**Observed A**	**Observed B**	**DIFFERENCE**	**Acceptable Range**	
CB07985	10.19	10.23	0.04	0.05	

	Standard ID #	**% Recovery**	
Independent Secondary Reference Material:			
Method Standard (Laboratory Control Spike):			

COMMENTS:

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst: MB **Parameter:** PHOS

Analysis Date: 8/7/2015 **Method Reference:** SM 4500P-E

SPIKE - ACCURACY					
Laboratory ID	**Spike Concentration**	**Background**	**% Recoveries**	**Range (%)**	**Method Blank Concentration**
CB08026	500	27	102/100	90-110	<10

SPIKE - PRECISION					
Laboratory ID	**Observed A**	**Observed B**	**RPD**	**Acceptable Range**	
CB08026	535	526	1.7	≤20%	

MISCELLANEOUS			
	Standard ID #	**% Recovery**	
Independent Secondary Reference Material:	WP228	98	
Method Standard (Laboratory Control Spike):			

COMMENTS:

ICP-MS
METHOD 6020

REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 8/7/2015 Standard ID: 062415 H2O Batch: 8/6/2015

Matrix Spike Lab ID: CB08202 Matrix: TCLP Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/L)	Matrix Spike Dup (ug/L)	RPD (%)	Spk Conc (ug/L)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/L)	Method Blk (ug/L)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	10253	10645	3.8	2000	105.6	125.2	8142	<10	90.2	97.9
Copper	4304	4440	3.1	2000	96.9	103.7	2367	<100	91.5	102.3
Zinc	138950	144641	4.0	2000	177.2	461.8	135406	<70	86.4	95.1
Arsenic	3496	3565	2.0	2000	102.0	105.4	1457	<200	89.0	95.7
Selenium	1883	1879	0.2	2000	94.0	93.8	3	<300	89.3	98.5
Silver	17.19	16.67	3.1	20	86.0	83.4	0	<100	94.0	97.9
Cadmium	2153	2095	2.7	2000	81.0	78.1	534	<40	88.9	95.6
Barium	3152	3125	0.9	2000	86.8	85.5	1416	<100	90.3	96.3
Lead	1901	1866	1.9	2000	93.6	91.9	29	<200	88.2	95.7

* Matrix spike precision range +/- 20% RPD

** Matrix spike accuracy range +/- 30% recovery

*** LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments:

REPRESENTATIVE BATCH QUALITY CONTROL

Accuracy & Precision

Analyst: LS **Parameter:** Mercury

Analysis Date: 08/06/15 **Method Reference:** 245.2/7470/7471

Matrix: TCLP **Batch:** T1

SPIKE - ACCURACY					
Laboratory ID	**Spike Concentration (ug/L)**	**Background (ug/L)**	**Recoveries (%)**	**Acceptable Range (%)**	**Method Blank Concentration (ug/L)**
CB08193	20.0	0.536	97 / 96	70 - 130	<2

Laboratory ID	**Observed A (ug/L)**	**Observed B (ug/L)**	**RPD (%)**	**Acceptable Range (%)**
CB08193	19.9	19.7	1.28	0 - 20

MISCELLANEOUS			
	Standard ID #	**Recovery (%)**	**Acceptable Range (%)**
Independent Secondary Reference Material:	SPEX 8302015	93	90 - 110
Method Standard (Laboratory Control Spike):	SPC 82016	98	80 - 120

COMMENTS: _____

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

Generator Waste Profile

Profile # 00700

GENERATOR INFORMATION

Name: [redacted] USEPA ID [redacted]

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

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

Conta[redacted] Titl[redacted] Phone: ( )_____ Fax: ( )_____

BILLING INFORMATION

☒ SAME AS ABOVE

Company Name:_____

Address:_____

City:_____ State:_____ Zip Code:_____

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

PHOS. CLEANER TANK bottom SLUDGE

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

TANK bottom Sludge

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	082515
☒ Other GREY	40	☐ Single Phase	Exact / Other 1.16	

pH: ☐ NA ☐ ≤ 2 ☒ 2 – 4 ☐ 4 – 6 ☐ 6 – 8 ☐ 8 – 10 ☐ 10 – 12.5 ☐ ≥12.5 082515

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	
Phosphoric Acid	20	1	%				%
Water	65	40	%				%
Sludge	65	40	%				%
			%				%
			%				%

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

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

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

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

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No
2. Reportable Quantity (RQ) in pounds _____
3. DOT Shipping Name RQ, UN1805, Waste Corrosive Liquid, Acidic, Inorganic, NOS (phosphoric acid) Hazard Class 8 (UN)NA 1805
PG III ERG _____ Hazardous Constituents for "n.o.s." phosphoric 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: 1 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.

X Printed Name: _____ Title: _____

X Generator's Signature: _____ X Date: 8-21-15

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:

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

1. _____ SAMPLING METHOD 2. _____ COLLECTION POINT

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

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

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

[redacted]	Date	Time	Received by:	Date	Time
			[redacted]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/21/15
Receiving ID#	#Pos Tank Belt
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[redacted]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION (Waste Shipments)		Offsite Brines only	
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.)	3.6	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.16	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	Yes (No)	Sulfate	
Oil in Sample	Yes (No)		
Temperature	77°F		
Conductivity	18.3 mS		
% Solids	62.3		
Turbidity	(Yes) No		
Color (visual)	Grey		
TSS (%)	40.0		
Radiation Screen (as needed)	Negative		
Lab Signature			

ANN ARBOR TECHNICAL SERVICES, INC.
290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9604
Wisconsin Laboratory ID: 998321720

Semivolatile Organic Compound Data Summary Shee

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

ATS Project: Environmental Geo-Technologies, Inc. #E008-0
Report Date: 6/29/15
ATS SRF: 0902151

Sample Identification: Injection - July 2015

Sample Date:	8/31/15	QC Batch Number:	QCORG0903151-E
Laboratory Receipt Date:	9/2/15		B510124
Preparation Date:	9/3/15, 9/21/15	Sample Matrix:	Wastewater
Analysis Date:	9/9/15, 9/26/15	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	<0.00000000005	0.00000000005
Octachlorodibenzo-p-dioxin (3268-87-9)	EPA 1613B	mg/mL	0.00000000044	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	102.9	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	130.8	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	94.2	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	74.7	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	74.7	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	74.9	(32 - 141)
13C-OCDF	EPA 1613B	59.1	(17 - 157)
13C-OCDD	EPA 1613B	60.1	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	74.7	(25 - 164)

Comments:
USEPA Analysis 1613B performed by Vista Analytical.